

What is git?

- Distributed version control (no central server needed)
- Easy to take a snapshot of current state of all tracked files
- Differences are efficiently stored
- Easy to revert to earlier version, compare between versions

Also facilitates collaboration:

- With yourself on multiple computers (and for backup)
- With others (see Part 2)

What is git?

- Distributed version control (no central server needed)
- Easy to take a snapshot of current state of all tracked files
- Differences are efficiently stored
- Easy to revert to earlier version, compare between versions

Also facilitates collaboration:

- With yourself on multiple computers (and for backup)
- With others (see Part 2)

Version Control with Git

Part I

Tutorial for the SIAM CSE Conference, 2017

http://meetings.siam.org/sess/dsp_programsess.cfm?SESSIONCODE=61491

On Github:

<https://github.com/uwescience/git-tutorials-siamcse2017>

What is git?

- Distributed version control (no central server needed)
- Easy to take a snapshot of current state of all tracked files
- Differences are efficiently stored
- Easy to revert to earlier version, compare between versions

Also facilitates collaboration:

- With yourself on multiple computers (and for backup)
- With others (see Part 2)

Documentation

- At the command line, try for example: `git help commit`
- [Git Book](#)
- [Git Cheat Sheet](#) from <https://education.github.com>

Tutorials

Many exist on the web if you search, for example:

- [From the Git Book](#)
- From Software Carpentry: <http://swcarpentry.github.io/git-novice/>

Other useful tools

- [gitk](#) The git repository browser
- [atom](#) Atom editor developed by Github

\$ git

Install git

Try this: At the command line,

```
git config --list
```

If you don't have git installed, see for example:

- [Installing Git](#) from the [Git Book](#).

Note: This tutorial uses git from the command line.
On Mac OSX you also need Xcode command line tools installed.

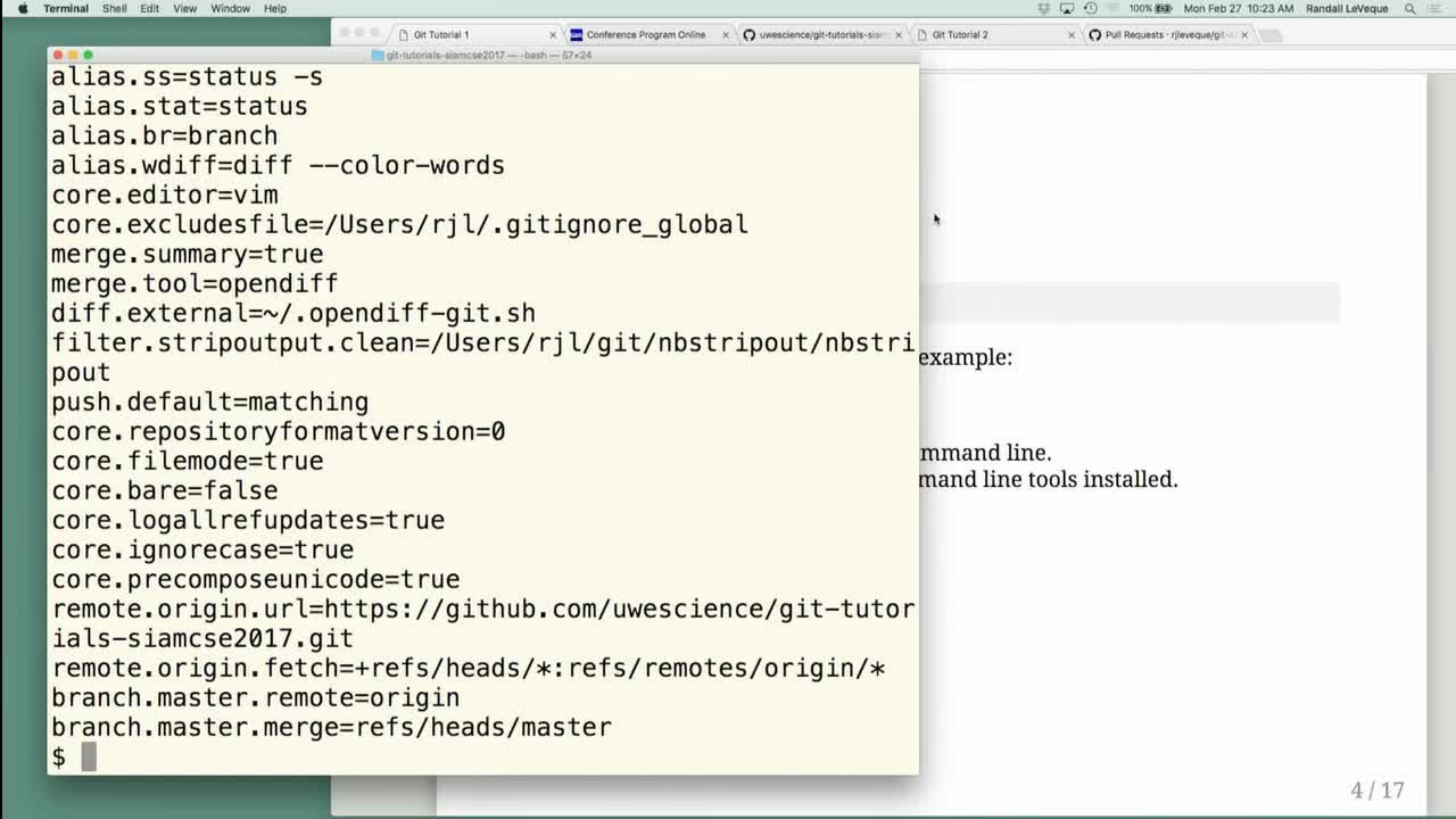
Other GUI-based tools also exist.

```
alias.ss=status -s
alias.stat=status
alias.br=branch
alias.wdiff=diff --color-words
core.editor=vim
core.excludesfile=/Users/rjl/.gitignore_global
merge.summary=true
merge.tool=opendiff
diff.external=~/.opendiff-git.sh
filter.stripoutput.clean=/Users/rjl/git/nbstripout/nbstripout
push.default=matching
core.repositoryformatversion=0
core.filemode=true
core.bare=false
core.logallrefupdates=true
core.ignorecase=true
core.precomposeunicode=true
remote.origin.url=https://github.com/uwescience/git-tutorials-siamcse2017.git
remote.origin.fetch=+refs/heads/*:refs/remotes/origin/*
branch.master.remote=origin
branch.master.merge=refs/heads/master
$
```

example:

command line.

command line tools installed.



```
alias.ss=status -s
alias.stat=status
alias.br=branch
alias.wdiff=diff --color-words
core.editor=vim
core.excludesfile=/Users/rjl/.gitignore_global
merge.summary=true
merge.tool=opendiff
diff.external=~/.opendiff-git.sh
filter.stripoutput.clean=/Users/rjl/git/nbstripout/nbstripout
push.default=matching
core.repositoryformatversion=0
core.filemode=true
core.bare=false
core.logallrefupdates=true
core.ignorecase=true
core.precomposeunicode=true
remote.origin.url=https://github.com/uwescience/git-tutorials-siamcse2017.git
remote.origin.fetch=+refs/heads/*:refs/remotes/origin/*
branch.master.remote=origin
branch.master.merge=refs/heads/master
$
```

example:

command line.
command line tools installed.


```
alias.ss=status -s
alias.stat=status
alias.br=branch
alias.wdiff=diff --
core.editor=vim
core.excludesfile=
merge.summary=true
merge.tool=opendiff
diff.external=~/.op
filter.stripoutput
pout
push.default=match
core.repositoryform
core.filemode=true
core.bare=false
core.logallrefupdat
core.ignorecase=tru
core.precomposeunic
remote.origin.url=h
ials-siamcse2017.gi
remote.origin.fetch
branch.master.remot
branch.master.merge
$
```

Install git

Try this: At the command line,

```
git config --list
```

If you don't have git installed, see for example:

- [Installing Git](#) from the [Git Book](#).

Note: This tutorial uses git from the command line.
On Mac OSX you also need Xcode command line tools installed.

Other GUI-based tools also exist.

Configure git: (only need to do this once)

```
git config --global user.name "John Doe"
git config --global user.email johndoe@example.com
git config --global core.editor nano # or vim, emacs, etc.
```

See: <http://swcarpentry.github.io/git-novice/02-setup/>


```
alias.ss=status -s
alias.stat=status
alias.br=branch
alias.wdiff=diff --
core.editor=vim
core.excludesfile=
merge.summary=true
merge.tool=opendiff
diff.external=~/.op
filter.stripoutput
pout
push.default=match
core.repositoryform
core.filemode=true
core.bare=false
core.logallrefupdat
core.ignorecase=tru
core.precomposeunic
remote.origin.url=f
ials-siamcse2017.gi
remote.origin.fetch
branch.master.remot
branch.master.merge
$
```

Turn any directory into a git repository:

```
cd path/to/directory
git init
```

This creates a "hidden" directory `.git` containing the database.

Then use various commands to tell which files to track, take a new "snapshot", etc., e.g.

```
git add file1.txt
git commit -m "commit message"
```

(We will do this later)

```
alias.ss=status -s
alias.stat=status
alias.br=branch
alias.wdiff=diff --
core.editor=vim
core.excludesfile=
merge.summary=true
merge.tool=opendiff
diff.external=~/.op
filter.stripoutput
pout
push.default=match
core.repositoryform
core.filemode=true
core.bare=false
core.logallrefupdat
core.ignorecase=tru
core.precomposeunic
remote.origin.url=h
ials-siamcse2017.gi
remote.origin.fetch
branch.master.remot
branch.master.merge
$
```

Or start by cloning an existing repository:

For example, get these slides via:

```
git clone https://github.com/uwescience/git-tutorials-siamcse2017
cd git-tutorials-siamcse2017
ls -a # list files, including those "hidden" to see .git
```

The clone contains all the history!

```
git log
```

prints all the commits and the commit messages, or:

```
git log --oneline # gives one-line summary of each commit
```



```
alias.ss=status -s
alias.stat=status
alias.br=branch
alias.wdiff=diff --color-words
core.editor=vim
core.excludesfile=/Users/rjl/.gitignore_global
merge.summary=true
merge.tool=opendiff
diff.external=~/.opendiff-git.sh
filter.stripoutput.clean=/Users/rjl/git/nbstripout/nbstripout
push.default=matching
core.repositoryformatversion=0
core.filemode=true
core.bare=false
core.logallrefupdates=true
core.ignorecase=true
core.precomposeunicode=true
remote.origin.url=https://github.com/uwescience/git-tutorials-siamcse2017.git
remote.origin.fetch=+refs/heads/*:refs/remotes/origin/*
branch.master.remote=origin
branch.master.merge=refs/heads/master
$ cd
```

existing repository:

/git-tutorials-siamcse2017

idden" to see .git

messages, or:

summary of each commit


```
alias.stat=status
alias.br=branch
alias.wdiff=diff --color-words
core.editor=vim
core.excludesfile=/Users/rjl/.gitignore_global
merge.summary=true
merge.tool=opendiff
diff.external=~/.opendiff-git.sh
filter.stripoutput.clean=/Users/rjl/git/nbstripout/nbstripout
push.default=matching
core.repositoryformatversion=0
core.filemode=true
core.bare=false
core.logallrefupdates=true
core.ignorecase=true
core.precomposeunicode=true
remote.origin.url=https://github.com/uwescience/git-tutorials-siamcse2017.git
remote.origin.fetch=+refs/heads/*:refs/remotes/origin/*
branch.master.remote=origin
branch.master.merge=refs/heads/master
$ cd
$ cd
```

existing repository:

/git-tutorials-siamcse2017

idden" to see .git

messages, or:

summary of each commit


```
alias.wdiff=diff --color-words
core.editor=vim
core.excludesfile=/Users/rjl/.gitignore_global
merge.summary=true
merge.tool=opendiff
diff.external=~/.opendiff-git.sh
filter.stripoutput.clean=/Users/rjl/git/nbstripout/nbstripout
push.default=matching
core.repositoryformatversion=0
core.filemode=true
core.bare=false
core.logallrefupdates=true
core.ignorecase=true
core.precomposeunicode=true
remote.origin.url=https://github.com/uwescience/git-tutorials-siamcse2017.git
remote.origin.fetch=+refs/heads/*:refs/remotes/origin/*
branch.master.remote=origin
branch.master.merge=refs/heads/master
$ cd
$ cd -
/Users/rjl/git/uwescience/git-tutorials-siamcse2017
$ clear
```

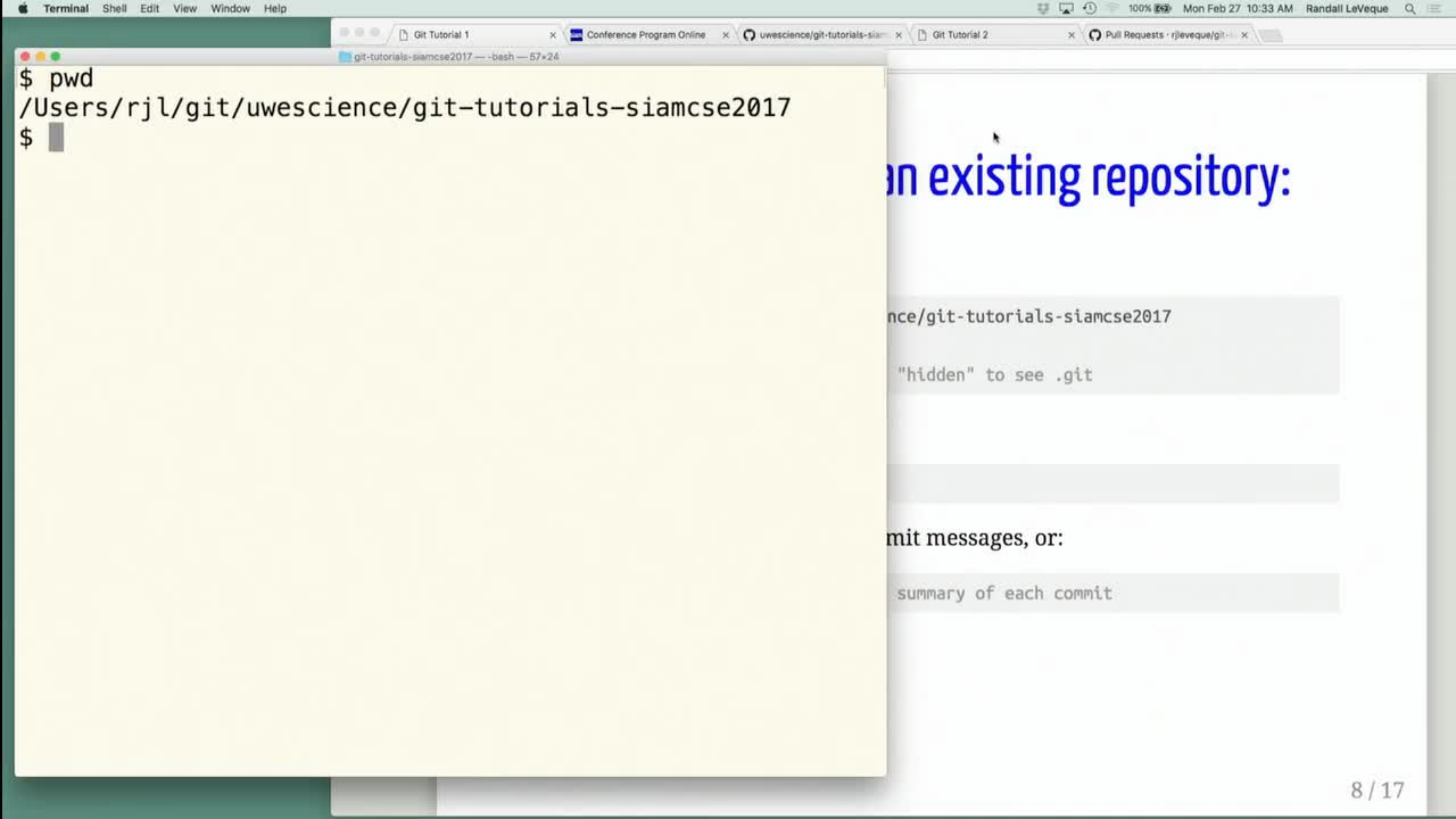
existing repository:

/git-tutorials-siamcse2017

idden" to see .git

messages, or:

summary of each commit



```
$ pwd
/Users/rjl/git/uwescience/git-tutorials-siamcse2017
$
```

on existing repository:

nce/git-tutorials-siamcse2017

"hidden" to see .git

mit messages, or:

summary of each commit


```
$ pwd
/Users/rjl/git/uwescience/git-tutorials-siamcse2017
$ ls -a
./          .git/      README.md
../         LICENSE.md slides/
$
```

on existing repository:

nce/git-tutorials-siamcse2017

"hidden" to see .git

mit messages, or:

summary of each commit

```
$ pwd
/Users/rjl/git/uwescience/git-tutorials-siamcse2017
$ ls -a
./          .git/      README.md
../         LICENSE.md slides/
$ ls .git
COMMIT_EDITMSG  description  logs/
FETCH_HEAD     gitk.cache  objects/
HEAD           hooks/      refs/
ORIG_HEAD      index
config         info/
$
```

Existing repository:

t-tutorials-siamcse2017

en" to see .git

essages, or:

ry of each commit


```
$ pwd
/Users/rjl/git/uw
$ ls -a
./
../
$ ls .git
COMMIT_EDITMSG
FETCH_HEAD
HEAD
ORIG_HEAD
config
$
```

Or start by cloning an existing repository:

For example, get these slides via:

```
git clone https://github.com/uwescience/git-tutorials-siamcse2017
cd git-tutorials-siamcse2017
ls -a # list files, including those "hidden" to see .git
```

The clone contains all the history!

```
git log
```

prints all the commits and the commit messages, or:

```
git log --oneline # gives one-line summary of each commit
```

```
$ pwd
/Users/rjl/git/uw
$ ls -a
./
../
$ ls .git
COMMIT_EDITMSG
FETCH_HEAD
HEAD
ORIG_HEAD
config
$
```

Before the tutorial:

Please do the following in preparation for the tutorial:

- Make sure you have Git installed on your laptop, e.g. by attempting to clone this repository via:

```
git clone https://github.com/uwescience/git-tutorials-siamcse2017.git
```

If you don't have Git installed, see for example [Installing Git](#) from the [Git Book](#) or the Software Carpentry instructions below.

If you cloned the repository earlier and want to update with recent changes:

```
cd git-tutorials-siamcse2017
git pull
```

- Know how to use basic command line instructions in a Unix shell, such as `cd`, `ls`, etc. See for example: <http://swcarpentry.github.io/shell-novice/>
- Have an editor that you know how to use for modifying files. (e.g. nano, vim, emacs, etc.)
- For Part 2, you should also have a Github account. Create a free account at <https://github.com/>

Tips:

- See <http://installation.software-carpentry.org/> for the software recommended for [Software Carpentry](#) workshops. We suggest following this if you don't have Git, bash, editors, etc. (especially if you are using a Windows laptop).
- If you have a MacBook, you will need to install Xcode in order for command line tools to work.
- The file `slides/part1.html` in this repository also contains some hints.

These tutorials are supported in part by [Github Education](#), who kindly provided some materials such as [Git cheat sheets](#) that will be distributed during the tutorial. See their webpage for other resources, or if you are interested in getting such materials or private repositories for a class you are teaching.


```
$ pwd
/Users/rjl/git/uw
$ ls -a
./
../
$ ls .git
COMMIT_EDITMSG
FETCH_HEAD
HEAD
ORIG_HEAD
config
$
```

Before the tutorial:

Please do the following in preparation for the tutorial:

- Make sure you have Git installed on your laptop, e.g. by attempting to clone this repository via:

```
git clone https://github.com/uwescience/git-tutorials-siamcse2017.git
```

If you don't have Git installed, see for example [Installing Git](#) from the [Git Book](#) or the Software Carpentry instructions below.

If you cloned the repository earlier and want to update with recent changes:

```
cd git-tutorials-siamcse2017
git pull
```

- Know how to use basic command line instructions in a Unix shell, such as `cd`, `ls`, etc. See for example: <http://swcarpentry.github.io/shell-novice/>
- Have an editor that you know how to use for modifying files. (e.g. nano, vim, emacs, etc.)
- For Part 2, you should also have a Github account. Create a free account at <https://github.com/>

Tips:

- See <http://installation.software-carpentry.org/> for the software recommended for [Software Carpentry](#) workshops. We suggest following this if you don't have Git, bash, editors, etc. (especially if you are using a Windows laptop).
- If you have a MacBook, you will need to install Xcode in order for command line tools to work.
- The file `slides/part1.html` in this repository also contains some hints.

These tutorials are supported in part by [Github Education](#), who kindly provided some materials such as [Git cheat sheets](#) that will be distributed during the tutorial. See their webpage for other resources, or if you are interested in getting such materials or private repositories for a class you are teaching.

```
$ pwd
/Users/rjl/git/uw
$ ls -a
./
../
$ ls .git
COMMIT_EDITMSG
FETCH_HEAD
HEAD
ORIG_HEAD
config
$
```

Git Tutorial 1 x Conference Program Online x uwescience/git-tutorials-siam x Git Tutorial 2 x Pull Requests - rjleveque/git x

GitHub, Inc. [US] https://github.com/uwescience/git-tutorials-siamcse2017

This repository Search Pull requests Issues Gist

uwescience / git-tutorials-siamcse2017 Unwatch 10 Star 3 Fork 2

Code Issues 0 Pull requests 0 Projects 0 Wiki Pulse Graphs Settings

Git tutorial slides for the SIAM CSE 2017 conference Edit

New Add topics

35 commits 2 branches 2 releases 2 contributors

Branch: master New pull request Create new file Upload files Find file Clone or download

rjleveque demo instructions Latest commit 4874e7b 2 hours ago

slides	demo instructions	2 hours ago
LICENSE.md	Added CC-BY license	29 days ago
README.md	Update README to thank Github Education	4 days ago

README.md

git-tutorials-siamcse2017

2017 SIAM Conference on Computational Science and Engineering

Under development, to be used in tutorials at the 2017 SIAM CSE Conference:

- Version Control with Git - Parts I and II

If you clone the repository, you should be able to open the file `slides/part1.html` for example in any browser.


```
$ pwd
/Users/rjl/git/uw
$ ls -a
./
../
$ ls .git
COMMIT_EDITMSG
FETCH_HEAD
HEAD
ORIG_HEAD
config
$
```

Git Tutorial 1 x Conference Program Online x uwescience/git-tutorials-siamcse2017 x Git Tutorial 2 x Pull Requests - rjleveque/git-tutorials-siamcse2017

GitHub, Inc. [US] | <https://github.com/uwescience/git-tutorials-siamcse2017>

This repository Search Pull requests Issues Gist

uwescience / [git-tutorials-siamcse2017](#) Unwatch 10 Star 3 Fork 2

Code Issues 0 Pull requests 0 Projects 0 Wiki Pulse Graphs Settings

Git tutorial slides for the SIAM CSE 2017 conference Edit

New Add topics

35 commits 2 branches 2 releases 2 contributors

Branch: master New pull request Create new file Upload files Find file Clone or download

 rjleveque demo instructions Latest commit 4874e7b 2 hours ago

 slides	demo instructions	2 hours ago
 LICENSE.md	Added CC-BY license	29 days ago
 README.md	Update README to thank Github Education	4 days ago

 README.md

git-tutorials-siamcse2017

2017 SIAM Conference on Computational Science and Engineering

Under development, to be used in tutorials at the 2017 SIAM CSE Conference:

- [Version Control with Git - Parts I and II](#)

<https://github.com/uwescience/git-tutorials-siamcse2017/blob/master/README.md> could be able to open the file `slides/part1.html` for example in any browser.

```
$ pwd
/Users/rjl/git/uw
$ ls -a
./
../
$ ls .git
COMMIT_EDITMSG
FETCH_HEAD
HEAD
ORIG_HEAD
config
$
```

Git Tutorial 1 x Conference Program Online x uwescience/git-tutorials-siam x Git Tutorial 2 x Pull Requests - rleveque/git x

GitHub, Inc. [US] | <https://github.com/uwescience/git-tutorials-siamcse2017>

Branch: master ▾ New pull request Create new file Upload files Find file Clone or download ▾

 **rleveque** demo instructions Latest commit 4874e7b 2 hours ago

 slides	demo instructions	2 hours ago
 LICENSE.md	Added CC-BY license	29 days ago
 README.md	Update README to thank Github Education	4 days ago

 README.md

git-tutorials-siamcse2017

2017 SIAM Conference on Computational Science and Engineering

Under development, to be used in tutorials at the 2017 SIAM CSE Conference:

- [Version Control with Git - Parts I and II](#)

If you clone the repository, you should be able to open the file `slides/part1.html` for example in any browser.

Or you can view directly from these links:

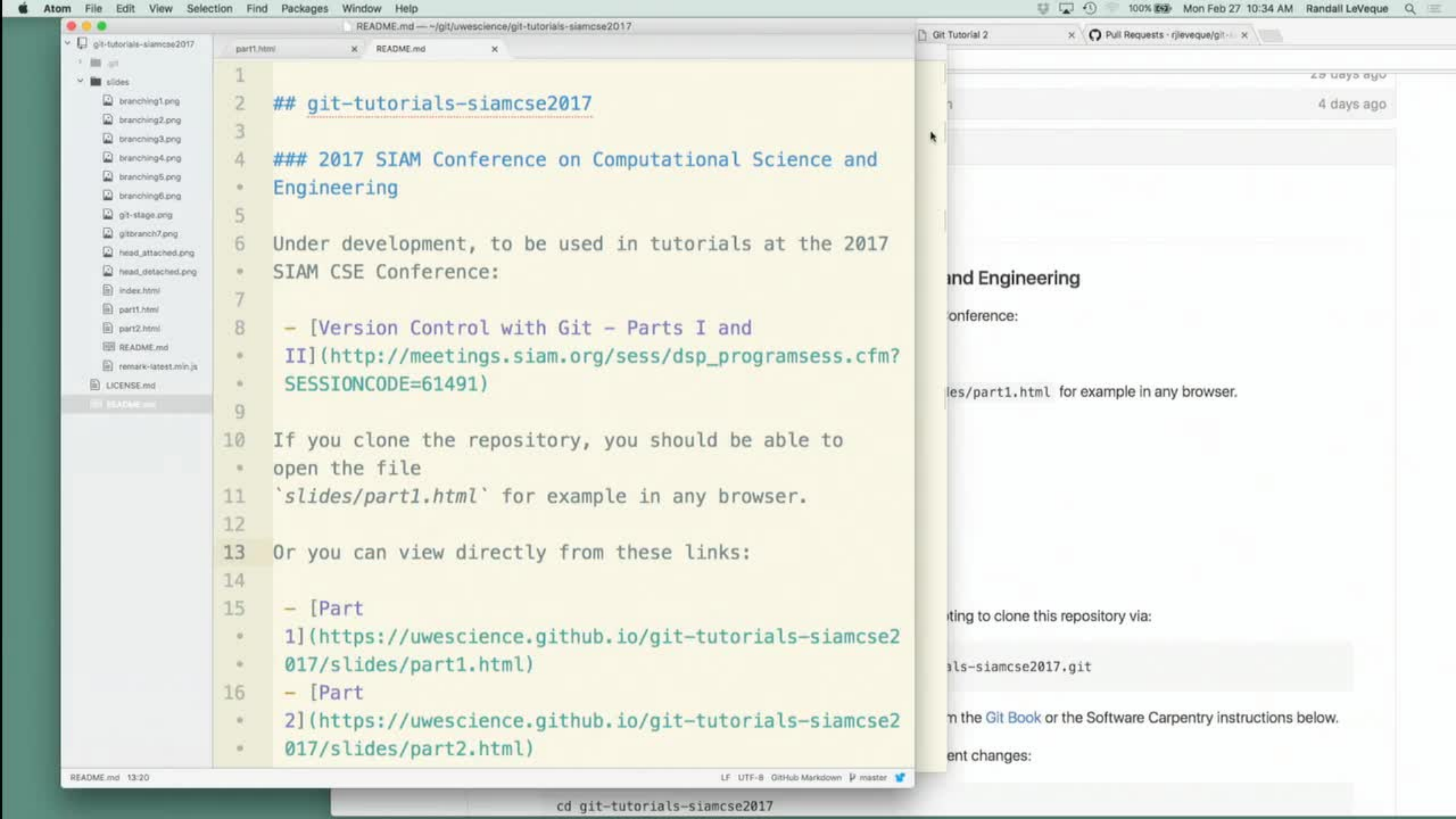
- [Part 1](#)
- [Part 2](#)

Before the tutorial:

Please do the following in preparation for the tutorial:

- Make sure you have Git installed on your laptop, e.g. by attempting to clone this repository via:


```
$ pwd
/Users/rjl/git/uwescience/git-tutorials-siamcse2017
$ ls -a
./          .git/      README.md
../         LICENSE.md slides/
$ ls .git
COMMIT_EDITMSG  description  logs/
FETCH_HEAD     gitk.cache  objects/
HEAD           hooks/      refs/
ORIG_HEAD      index
config         info/
$ atom -n README.md
$
```



git-tutorials-siamcse2017

2017 SIAM Conference on Computational Science and Engineering

Under development, to be used in tutorials at the 2017 SIAM CSE Conference:

- [Version Control with Git - Parts I and II](http://meetings.siam.org/sess/dsp_programsess.cfm?SESSIONCODE=61491)

If you clone the repository, you should be able to open the file

`'slides/part1.html'` for example in any browser.

Or you can view directly from these links:

- [Part 1](<https://uwescience.github.io/git-tutorials-siamcse2017/slides/part1.html>)
- [Part 2](<https://uwescience.github.io/git-tutorials-siamcse2017/slides/part2.html>)

and Engineering

conference:

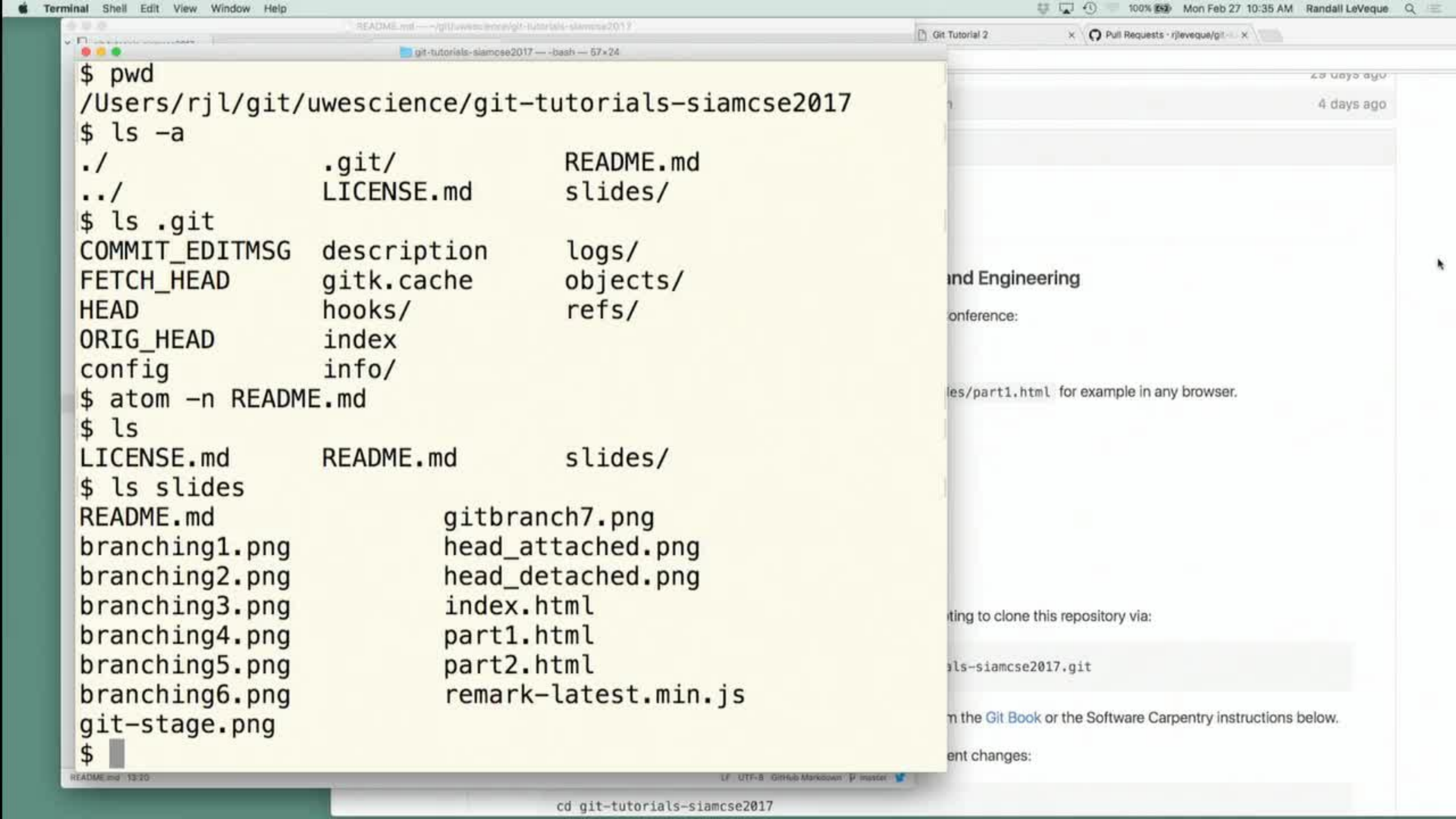
les/part1.html for example in any browser.

ting to clone this repository via:

als-siamcse2017.git

m the [Git Book](#) or the Software Carpentry instructions below.

ent changes:



```
$ pwd
/Users/rjl/git/uw
$ ls -a
./
../
$ ls .git
COMMIT_EDITMSG
FETCH_HEAD
HEAD
ORIG_HEAD
config
$ atom -n README.
$ ls
LICENSE.md
$ ls slides
README.md
branching1.png
branching2.png
branching3.png
branching4.png
branching5.png
branching6.png
git-stage.png
$
```

README.md 13:20

Chrome | File | Edit | View | History | Bookmarks | People | Window | Help

Git Tutorial 1 | Conference Program Online | uwescience/git-tutorials-siam | Git Tutorial 2 | Pull Requests · rjleveque/gi

GitHub, Inc. [US] | https://github.com/uwescience/git-tutorials-siamcse2017

LICENSE.md | Added CC-BY license | 28 days ago

README.md | Update README to thank Github Education | 4 days ago

README.md

git-tutorials-siamcse2017

2017 SIAM Conference on Computational Science and Engineering

Under development, to be used in tutorials at the 2017 SIAM CSE Conference:

- [Version Control with Git - Parts I and II](#)

If you clone the repository, you should be able to open the file `slides/part1.html` for example in any browser.

Or you can view directly from these links:

- [Part 1](#)
- [Part 2](#)

Before the tutorial:

Please do the following in preparation for the tutorial:

- Make sure you have Git installed on your laptop, e.g. by attempting to clone this repository via:

```
git clone https://github.com/uwescience/git-tutorials-siamcse2017.git
```

If you don't have Git installed, see for example [Installing Git](#) from the [Git Book](#) or the Software Carpentry instructions below.

If you cloned the repository earlier and want to update with recent changes:

```
cd git-tutorials-siamcse2017
```



```
$ pwd
/Users/rjl/git/uw
$ ls -a
./
../
$ ls .git
COMMIT_EDITMSG
FETCH_HEAD
HEAD
ORIG_HEAD
config
$ atom -n README.
$ ls
LICENSE.md
$ ls slides
README.md
branching1.png
branching2.png
branching3.png
branching4.png
branching5.png
branching6.png
git-stage.png
$
```

Or start by cloning an existing repository:

For example, get these slides via:

```
git clone https://github.com/uwescience/git-tutorials-siamcse2017
cd git-tutorials-siamcse2017
ls -a # list files, including those "hidden" to see .git
```

The clone contains all the history!

```
git log
```

prints all the commits and the commit messages, or:

```
git log --oneline # gives one-line summary of each commit
```

AtomFileEditViewSelectionFindPackagesWindowHelp

README.md — ~/git/uwescience/git-tutorials-siamcse2017

part1.html x README.md x

git-tutorials-siamcse2017

git
slides
branching1.png
branching2.png
branching3.png
branching4.png
branching5.png
branching6.png
git-stage.png
gitbranch7.png
head_attached.png
head_detached.png
index.html
part1.html
part2.html
README.md
remark-latest.min.js
LICENSE.md

1
2 ## git-tutorials-siamcse2017
3
4 ### 2017 SIAM Conference on
Computational Science and
Engineering
5
6 Under development, to be used in
tutorials at the 2017 SIAM CSE
Conference:
7
8 - [Version Control with Git -
Parts I and
9
10 If you clone the repository, you
should be able to open the file
11 `slides/part1.html` for example in
any browser.
12
13 Or you can view directly from these
links:
14

README.md Preview x

git-tutorials-siamcse2017

2017 SIAM Conference on Computational Science and
Engineering

Under development, to be used in tutorials at the 2017 SIAM CSE Conference:

- Version Control with Git - Parts I and II

If you clone the repository, you should be able to open the file `slides/part1.html` for
example in any browser.

Or you can view directly from these links:

- Part 1
- Part 2

Before the tutorial:

Please do the following in preparation for the tutorial:

- Make sure you have Git installed on your laptop, e.g. by attempting to clone this
repository via:

```
git clone https://github.com/uwescience/git-tutorials-siamcse2017.git
```

If you don't have Git installed, see for example [Installing Git](#) from the [Git Book](#) or the
Software Carpentry instructions below.

If you cloned the repository earlier and want to update with recent changes:

```
cd git-tutorials-siamcse2017  
git pull
```

- Know how to use basic command line instructions in a Unix shell, such as `cd`, `ls`, etc.
See for example: <http://swcarpentry.github.io/shell-novice/>
- Have an editor that you know how to use for modifying files. (e.g. nano, vim, emacs,
etc.)
- For Part 2, you should also have a Github account. Create a free account at

README.md 13:20

LF UTF-8 GitHub Markdown master

pository:

8 / 17

Atom

File

Edit

View

Selection

Find

Packages

Window

Help

git-tutorials-siamcse2017

part1.html

README.md

git

slides

branching1.png

branching2.png

branching3.png

branching4.png

branching5.png

branching6.png

git-stage.png

gitbranch7.png

head_attached.png

head_detached.png

index.html

part1.html

part2.html

README.md

remark-latest.min.js

LICENSE.md

1

2

3

4

5

6

7

8

9

10

11

12

13

14

git-tutorials-siamcse2017

2017 SIAM Conference on Computational Science and Engineering

Under development, to be used in tutorials at the 2017 SIAM CSE Conference:

- Version Control with Git - Parts I and II

If you clone the repository, you should be able to open the file `slides/part1.html` for example in any browser.

Or you can view directly from these links:

- Part 1
- Part 2

Before the tutorial:

Please do the following in preparation for the tutorial:

- Make sure you have Git installed on your laptop, e.g. by attempting to clone this repository via:

```
git clone https://github.com/uwescience/git-tutorials-siamcse2017.git
```
- If you don't have Git installed, see for example [Installing Git](#) from the [Git Book](#) or the [Software Carpentry](#) instructions below.
- If you cloned the repository earlier and want to update with recent changes:

```
cd git-tutorials-siamcse2017
git pull
```
- Know how to use basic command line instructions in a Unix shell, such as `cd`, `ls`, etc. See for example: <http://swcarpentry.github.io/shell-novice/>
- Have an editor that you know how to use for modifying files, (e.g. nano, vim, emacs, etc.)
- For Part 2, you should also have a Github account. Create a free account at

git-tutorials-siamcse2017

README.md Preview

git-tutorials-siamcse2017

2017 SIAM Conference on Computational Science and Engineering

Under development, to be used in tutorials at the 2017 SIAM CSE Conference:

- Version Control with Git - Parts I and II

If you clone the repository, you should be able to open the file `slides/part1.html` for example in any browser.

Or you can view directly from these links:

- Part 1
- Part 2

Before the tutorial:

Please do the following in preparation for the tutorial:

- Make sure you have Git installed on your laptop, e.g. by attempting to clone this repository via:

```
git clone https://github.com/uwescience/git-tutorials-siamcse2017.git
```
- If you don't have Git installed, see for example [Installing Git](#) from the [Git Book](#) or the [Software Carpentry](#) instructions below.
- If you cloned the repository earlier and want to update with recent changes:

```
cd git-tutorials-siamcse2017
git pull
```
- Know how to use basic command line instructions in a Unix shell, such as `cd`, `ls`, etc. See for example: <http://swcarpentry.github.io/shell-novice/>
- Have an editor that you know how to use for modifying files, (e.g. nano, vim, emacs, etc.)
- For Part 2, you should also have a Github account. Create a free account at

repository:

cse2017

t

README.md 13:20

LF UTF-8 GitHub Markdown master

8 / 17

git-tutorials-siamcse2017

slides

branching1.png

branching2.png

branching3.png

branching4.png

branching5.png

branching6.png

git-stage.png

gitbranch7.png

head_attached.png

head_detached.png

index.html

part1.html

part2.html

README.md

remark-latest.min.js

LICENSE.md

part1.html

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

38

39

40

41

42

43

44

45

46

47

48

49

50

51

52

53

54

55

56

57

58

59

60

61

62

63

64

65

66

67

68

69

70

71

72

73

74

75

76

77

78

79

80

81

82

83

84

85

86

87

88

89

90

91

92

93

94

95

96

97

98

99

100

101

102

103

104

105

106

107

108

109

110

111

112

113

114

115

116

117

118

119

120

121

122

123

124

125

126

127

128

129

130

131

132

133

134

135

136

137

138

139

140

141

142

143

144

145

146

147

148

149

150

151

152

153

154

155

156

157

158

159

160

161

162

163

164

165

166

167

168

169

170

171

172

173

174

175

176

177

178

179

180

181

182

183

184

185

186

187

188

189

190

191

192

193

194

195

196

197

198

199

200

201

202

203

204

205

206

207

208

209

210

211

212

213

214

215

216

217

218

219

220

221

222

223

224

225

226

227

228

229

230

231

232

233

234

235

236

237

238

239

240

241

242

243

244

245

246

247

248

249

250

251

252

253

254

255

256

257

258

259

260

261

262

263

264

265

266

267

268

269

270

271

272

273

274

275

276

277

278

279

280

281

282

283

284

285

286

287

288

289

290

291

292

293

294

295

296

297

298

299

300

301

302

303

304

305

306

307

308

309

310

311

312

313

314

315

316

317

318

319

320

321

322

323

324

325

326

327

328

329

330

331

332

333

334

335

336

337

338

339

340

341

342

343

344

345

346

347

348

349

350

351

352

353

354

355

356

357

358

359

360

361

362

363

364

365

366

367

368

369

370

371

372

373

374

375

376

377

378

379

380

381

382

383

384

385

386

387

388

389

390

391

392

393

394

395

396

397

398

399

400

401

402

403

404

405

406

407

408

409

410

411

412

413

414

415

416

417

418

419

420

421

422

423

424

425

426

427

428

429

430

431

432

433

434

435

436

437

438

439

440

441

442

443

444

445

446

447

448

449

450

451

452

453

454

455

456

457

458

459

460

461

462

463

464

465

466

467

468

469

470

471

472

473

474

475

476

477

478

479

480

481

482

483

484

485

486

487

488

489

490

491

492

493

494

495

496

497

498

499

500

501

502

503

504

505

506

507

508

509

510

511

512

513

514

515

516

517

518

519

520

521

522

523

524

525

526

527

528

529

530

531

532

533

534

535

536

537

538

539

540

541

542

543

544

545

546

547

548

549

550

551

552

553

554

555

556

557

558

559

560

561

562

563

564

565

566

567

568

569

570

571

572

573

574

575

576

577

578

579

580

581

582

583

584

585

586

587

588

589

590

591

592

593

594

595

596

597

598

599

600

601

602

603

604

605

606

607

608

609

610

611

612

613

614

615

616

617

618

619

620

621

622

623

624

625

626

627

628

629

630

631

632

633

634

635

636

637

638

639

640

641

642

643

644

645

646

647

648

649

650

651

652

653

654

655

656

657

658

659

660

661

662

663

664

665

666

667

668

669

670

671

672

673

674

675

676

677

678

679

680

681

682

683

684

685

686

687

688

689

690

691

692

693

694

695

696

697

698

699

700

701

702

703

704

705

706

707

708

709

710

711

712

713

714

715

716

717

718

719

720

721

722

723

724

725

726

727

728

729

730

731

732

733

734

735

736

737

738

739

740

741

742

743

744

745

746

747

748

749

750

751

752

753

754

755

756

757

758

759

760

761

762

763

764

765

766

767

768

769

770

771

772

773

774

775

776

777

778

779

780

781

782

783

784

785

786

787

788

789

790

791

792

793

794

795

796

797

798

799

800

801

802

803

804

805

806

807

808

809

810

811

812

813

814

815

816

817

818

819

820

821

822

823

824

825

826

827

828

829

830

831

832

833

834

835

836

837

838

839

840

841

842

843

844

845

846

847

848

849

850

851

852

853

854

855

856

857

858

859

860

861

862

863

864

865

866

867

868

869

870

871

872

873

874

875

876

877

878

879

880

881

882

883

884

885

886

887

888

889

890

891

892

893

894

895

896

897

898

899

900

901

902

903

904

905

906

907

908

909

910

911

912

913

914

915

916

917

918

919

920

921

922

923

924

925

926

927

928

929

930

931

932

933

934

935

936

937

938

939

940

941

942

943

944

945

946

947

948

949

950

951

952

953

954

955

956

957

958

959

960

961

962

963

964

965

966

967

968

969

970

971

972

973

974

975

976

977

978

979

980

981

982

983

984

985

986

987

988

989

990

991

992

993

994

995

996

997

998

999

1000

Git Tutorial 1

Conference Program Online

uwescience/git-tutorials-siam

Git Tutorial 2

Pull Requests · rjleveque/gi

file:///Users/rjl/git/uwescience/git-tutorials-siamcse2017/slides/part1.html#8

Or start by cloning an existing repository:

For example, get these slides via:

```
git clone https://github.com/uwescience/git-tutorials-siamcse2017
cd git-tutorials-siamcse2017
ls -a # list files, including those "hidden" to see .git
```

The clone contains all the history!

```
git log
```

prints all the commits and the commit messages, or:

```
git log --oneline # gives one-line summary of each commit
```

ADME.md 13:20

8 / 17

git-tutorials-siamcse2017

slides

branching1.png

branching2.png

branching3.png

branching4.png

branching5.png

branching6.png

git-stage.png

gitbranch7.png

head_attached.png

head_detached.png

index.html

part1.html

part2.html

README.md

remark-latest.min.js

LICENSE.md

part1.html

README

1

2

3

4

5

6

7

8

9

10

11

12

13

14

git-tutor

2017 SIAM

• Computational

• Engineering

Under developo

tutorials at

Conference:

- [Version

• Parts I and

• II](http://

• sp_programs

• 1)

If you clone

• should be ab

`slides/part

• any browser.

Or you can v

• links:

Git Tutorial 1

Conference Program Online

uwescience/git-tutorials-siam

Git Tutorial 2

Pull Requests · rleveque/git-t

GitHub, Inc. [US]

https://github.com/uwescience/git-tutorials-siamcse2017

LICENSE.md

Added CC-BY license

23 days ago

README.md

Update README to thank Github Education

4 days ago

README.md

git-tutorials-siamcse2017

2017 SIAM Conference on Computational Science and Engineering

Under development, to be used in tutorials at the 2017 SIAM CSE Conference:

• [Version Control with Git - Parts I and II](#)

If you clone the repository, you should be able to open the file `slides/part1.html` for example in any browser.

Or you can view directly from these links:

• [Part 1](#)

• [Part 2](#)

Before the tutorial:

Please do the following in preparation for the tutorial:

• Make sure you have Git installed on your laptop, e.g. by attempting to clone this repository via:

git clone https://github.com/uwescience/git-tutorials-siamcse2017.git

If you don't have Git installed, see for example [Installing Git](#) from the [Git Book](#) or the Software Carpentry instructions below.

If you cloned the repository earlier and want to update with recent changes:

cd git-tutorials-siamcse2017

README.md 13:20

git-tutorials-siamcse2017

part1.html

README

slides

branching1.png

branching2.png

branching3.png

branching4.png

branching5.png

branching6.png

git-stage.png

gitbranch7.png

head_attached.png

head_detached.png

index.html

part1.html

part2.html

README.md

remark-latest.min.js

LICENSE.md

1

2

3

4

5

6

7

8

9

10

11

12

13

14

git-tutor

2017 SIAM

• Computational

• Engineering

Under developo

tutorials at

Conference:

- [Version

Parts I and

II](http://

sp_programs

1)

If you clone

• should be ab

`slides/part

• any browser.

Or you can v

• links:

Git Tutorial 1

Conference Program Online

uwescience/git-tutorials-siam

Git Tutorial 2

Pull Requests · rjleveque/git

GitHub, Inc. [US]

https://github.com/uwescience/git-tutorials-siamcse2017

uwescience / git-tutorials-siamcse2017

Unwatch 10

Star 3

Fork 2

Code

Issues 0

Pull requests 0

Projects 0

Wiki

Pulse

Graphs

Settings

Git tutorial slides for the SIAM CSE 2017 conference

Edit

New

Add topics

35 commits

2 branches

2 releases

2 contributors

Branch: master

New pull request

Create new file

Upload files

Find file

Clone or download

rjleveque demo instructions

Latest commit 4874e7b 2 hours ago

slides demo instructions 2 hours ago

LICENSE.md Added CC-BY license 29 days ago

README.md Update README to thank Github Education 4 days ago

README.md

git-tutorials-siamcse2017

2017 SIAM Conference on Computational Science and Engineering

Under development, to be used in tutorials at the 2017 SIAM CSE Conference:

• Version Control with Git - Parts I and II

If you clone the repository, you should be able to open the file slides/part1.html for example in any browser.

Or you can view directly from these links:

ADME.md 13:20

git-tutorials-siamcse2017

slides

branching1.png

branching2.png

branching3.png

branching4.png

branching5.png

branching6.png

git-stage.png

gitbranch7.png

head_attached.png

head_detached.png

index.html

part1.html

part2.html

README.md

remark-latest.min.js

LICENSE.md

README.md

part1.html

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

38

39

40

41

42

43

44

45

46

47

48

49

50

51

52

53

54

55

56

57

58

59

60

61

62

63

64

65

66

67

68

69

70

71

72

73

74

75

76

77

78

79

80

81

82

83

84

85

86

87

88

89

90

91

92

93

94

95

96

97

98

99

100

101

102

103

104

105

106

107

108

109

110

111

112

113

114

115

116

117

118

119

120

121

122

123

124

125

126

127

128

129

130

131

132

133

134

135

136

137

138

139

140

141

142

143

144

145

146

147

148

149

150

151

152

153

154

155

156

157

158

159

160

161

162

163

164

165

166

167

168

169

170

171

172

173

174

175

176

177

178

179

180

181

182

183

184

185

186

187

188

189

190

191

192

193

194

195

196

197

198

199

200

201

202

203

204

205

206

207

208

209

210

211

212

213

214

215

216

217

218

219

220

221

222

223

224

225

226

227

228

229

230

231

232

233

234

235

236

237

238

239

240

241

242

243

244

245

246

247

248

249

250

251

252

253

254

255

256

257

258

259

260

261

262

263

264

265

266

267

268

269

270

271

272

273

274

275

276

277

278

279

280

281

282

283

284

285

286

287

288

289

290

291

292

293

294

295

296

297

298

299

300

301

302

303

304

305

306

307

308

309

310

311

312

313

314

315

316

317

318

319

320

321

322

323

324

325

326

327

328

329

330

331

332

333

334

335

336

337

338

339

340

341

342

343

344

345

346

347

348

349

350

351

352

353

354

355

356

357

358

359

360

361

362

363

364

365

366

367

368

369

370

371

372

373

374

375

376

377

378

379

380

381

382

383

384

385

386

387

388

389

390

391

392

393

394

395

396

397

398

399

400

401

402

403

404

405

406

407

408

409

410

411

412

413

414

415

416

417

418

419

420

421

422

423

424

425

426

427

428

429

430

431

432

433

434

435

436

437

438

439

440

441

442

443

444

445

446

447

448

449

450

451

452

453

454

455

456

457

458

459

460

461

462

463

464

465

466

467

468

469

470

471

472

473

474

475

476

477

478

479

480

481

482

483

484

485

486

487

488

489

490

491

492

493

494

495

496

497

498

499

500

501

502

503

504

505

506

507

508

509

510

511

512

513

514

515

516

517

518

519

520

521

522

523

524

525

526

527

528

529

530

531

532

533

534

535

536

537

538

539

540

541

542

543

544

545

546

547

548

549

550

551

552

553

554

555

556

557

558

559

560

561

562

563

564

565

566

567

568

569

570

571

572

573

574

575

576

577

578

579

580

581

582

583

584

585

586

587

588

589

590

591

592

593

594

595

596

597

598

599

600

601

602

603

604

605

606

607

608

609

610

611

612

613

614

615

616

617

618

619

620

621

622

623

624

625

626

627

628

629

630

631

632

633

634

635

636

637

638

639

640

641

642

643

644

645

646

647

648

649

650

651

652

653

654

655

656

657

658

659

660

661

662

663

664

665

666

667

668

669

670

671

672

673

674

675

676

677

678

679

680

681

682

683

684

685

686

687

688

689

690

691

692

693

694

695

696

697

698

699

700

701

702

703

704

705

706

707

708

709

710

711

712

713

714

715

716

717

718

719

720

721

722

723

724

725

726

727

728

729

730

731

732

733

734

735

736

737

738

739

740

741

742

743

744

745

746

747

748

749

750

751

752

753

754

755

756

757

758

759

760

761

762

763

764

765

766

767

768

769

770

771

772

773

774

775

776

777

778

779

780

781

782

783

784

785

786

787

788

789

790

791

792

793

794

795

796

797

798

799

800

801

802

803

804

805

806

807

808

809

810

811

812

813

814

815

816

817

818

819

820

821

822

823

824

825

826

827

828

829

830

831

832

833

834

835

836

837

838

839

840

841

842

843

844

845

846

847

848

849

850

851

852

853

854

855

856

857

858

859

860

861

862

863

864

865

866

867

868

869

870

871

872

873

874

875

876

877

878

879

880

881

882

883

884

885

886

887

888

889

890

891

892

893

894

895

896

897

898

899

900

901

902

903

904

905

906

907

908

909

910

911

912

913

914

915

916

917

918

919

920

921

922

923

924

925

926

927

928

929

930

931

932

933

934

935

936

937

938

939

940

941

942

943

944

945

946

947

948

949

950

951

952

953

954

955

956

957

958

959

960

961

962

963

964

965

966

967

968

969

970

971

972

973

974

975

976

977

978

979

980

981

982

983

984

985

986

987

988

989

990

991

992

993

994

995

996

997

998

999

1000

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

38

39

40

41

42

43

44

45

46

47

48

49

50

51

52

53

54

55

56

57

58

59

60

61

62

63

64

65

66

67

68

69

70

71

72

73

74

75

76

77

78

79

80

81

82

83

84

85

86

87

88

89

90

91

92

93

94

95

96

97

98

99

100

101

102

103

104

105

106

107

108

109

110

111

112

113

114

115

116

117

118

119

120

121

122

123

124

125

126

127

128

129

130

131

132

133

134

135

136

137

138

139

140

141

142

143

144

145

146

147

148

149

150

151

152

153

154

155

156

157

158

159

160

161

162

163

164

165

166

167

168

169

170

171

172

173

174

175

176

177

178

179

180

181

182

183

184

185

186

187

188

189

190

191

192

193

194

195

196

197

198

199

200

201

202

203

204

205

206

207

208

209

210

211

212

213

214

215

216

217

218

219

220

221

222

223

224

225

226

227

228

229

230

231

232

233

234

235

236

237

238

239

240

241

242

243

244

245

246

247

248

249

250

251

252

253

254

255

256

257

258

259

260

261

262

263

264

265

266

267

268

269

270

271

272

273

274

275

276

277

278

279

280

281

282

283

284

285

286

287

288

289

290

291

292

293

294

295

296

297

298

299

300

301

302

303

304

305

306

307

308

309

310

311

312

313

314

315

316

317

318

319

320

321

322

323

324

325

326

327

328

329

330

331

332

333

334

335

336

337

338

339

340

341

342

343

344

345

346

347

348

349

350

351

352

353

354

355

356

357

358

359

360

361

362

363

364

365

366

367

368

369

370

371

372

373

374

375

376

377

378

379

380

381

382

383

384

385

386

387

388

389

390

391

392

393

394

395

396

397

398

399

400

401

402

403

404

405

406

407

408

409

410

411

412

413

414

415

416

417

418

419

420

421

422

423

424

425

426

427

428

429

430

431

432

433

434

435

436

437

438

439

440

441

442

443

444

445

446

447

448

449

450

451

452

453

454

455

456

457

458

459

460

461

462

463

464

465

466

467

468

469

470

471

472

473

474

475

476

477

478

479

480

481

482

483

484

485

486

487

488

489

490

491

492

493

494

495

496

497

498

499

500

501

502

503

504

505

506

507

508

509

510

511

512

513

514

515

516

517

518

519

520

521

522

523

524

525

526

527

528

529

530

531

532

533

534

535

536

537

538

539

540

541

542

543

544

545

546

547

548

549

git-tutorials-siamcse2017

part1.html

README

slides

branching1.png

branching2.png

branching3.png

branching4.png

branching5.png

branching6.png

git-stage.png

gitbranch7.png

head_attached.png

head_detached.png

index.html

part1.html

part2.html

README.md

remark-latest.min.js

LICENSE.md

1

2

3

4

5

6

7

8

9

10

11

12

13

14

git-tutor

2017 SIA

• Computational

• Engineering

Under developo

tutorials at

Conference:

- [Version

• Parts I and

• II](http://

• sp_programs

• 1)

If you clone

• should be ab

'slides/part

• any browser.

Or you can v

• links:

Git Tutorial 1

Conference Program Online

uwescience/git-tutorials-siam

Git Tutorial 2

Pull Requests · rjleveque/git

GitHub, Inc. [US]

https://github.com/uwescience/git-tutorials-siamcse2017

New

Add topics

35 commits

2 branches

2 releases

2 contributors

Branch: master

New pull request

Create new file

Upload files

Find file

Clone or download

rjleveque

demo instructions

Latest commit 4874e7b 2 hours ago

slides

demo instructions

2 hours ago

LICENSE.md

Added CC-BY license

29 days ago

README.md

Update README to thank Github Education

4 days ago

README.md

git-tutorials-siamcse2017

2017 SIAM Conference on Computational Science and Engineering

Under development, to be used in tutorials at the 2017 SIAM CSE Conference:

• Version Control with Git - Parts I and II

If you clone the repository, you should be able to open the file slides/part1.html for example in any browser.

Or you can view directly from these links:

• Part 1

• Part 2

Before the tutorial:

Please do the following in preparation for the tutorial:

README.md

13:20

Chrome

File

Edit

View

History

Bookmarks

People

Window

Help

Git Tutorial 1

Conference Program Online

uwescience/git-tutorials-siam

Git Tutorial 2

Pull Requests · rjleveque/gi

GitHub, Inc. [US]

https://github.com/uwescience/git-tutorials-siamcse2017

35 commits

2 branches

2 releases

2 contributors

Branch: master

New pull request

Create new file

Upload files

Find file

Clone or download

rjleveque

demo instructions

Latest commit 4874e7b 2 hours ago

slides

demo instructions

2 hours ago

LICENSE.md

Added CC-BY license

29 days ago

README.md

Update README to thank Github Education

4 days ago

README.md

git-tutorials-siamcse2017

2017 SIAM Conference on Computational Science and Engineering

Under development, to be used in tutorials at the 2017 SIAM CSE Conference:

• Version Control with Git - Parts I and II

If you clone the repository, you should be able to open the file `slides/part1.html` for example in any browser.

Or you can view directly from these links:

• Part 1

• Part 2

Before the tutorial:

Please do the following in preparation for the tutorial:

• Make sure you have Git installed on your laptop, e.g. by attempting to clone this repository via:

git-tutorials-siamcse2017

part1.html

README

slides

branching1.png

branching2.png

branching3.png

branching4.png

branching5.png

branching6.png

git-stage.png

gitbranch7.png

head_attached.png

head_detached.png

index.html

part1.html

part2.html

README.md

remark-latest.min.js

LICENSE.md

1

2 ## git-tutor

3

4 ### 2017 SIA

5

6 Computational

7 Engineering

8

9 Under develo

10 tutorials at

11 Conference:

12

13 - [Version

14 Parts I and

II](http://

sp_programs

1)

If you clone

should be ab

`slides/part

any browser.

Or you can v

links:

ADME.md 13:20

Chrome

File

Edit

View

History

Bookmarks

People

Window

Help

Git Tutorial 1

Conference Program Online

uwescience/git-tutorials-siam

Git Tutorial 2

Pull Requests - rjleveque/gi

git-tutorials-siamcse2017

part1.html

README

slides

branching1.png

branching2.png

branching3.png

branching4.png

branching5.png

branching6.png

git-stage.png

gitbranch7.png

head_attached.png

head_detached.png

index.html

part1.html

part2.html

README.md

remark-latest.min.js

LICENSE.md

1

2

3

4

5

6

7

8

9

10

11

12

13

14

git-tutor

2017 SIAM

• Computational

• Engineering

Under developo

• tutorials at

• Conference:

7

8

• [Version

• Parts I and

• II](http://

• sp_programs

• 1)

9

10

• If you clone

• should be ab

11

• `slides/part

• any browser.

12

13

• Or you can v

• links:

14

35 commits

2 branches

2 releases

2 contributors

Branch: master

New pull request

Create new file

Upload files

Find file

Clone or download

rjleveque

demo instructions

Latest commit 4874e7b 2 hours ago

slides

demo instructions

2 hours ago

LICENSE.md

Added CC-BY license

29 days ago

README.md

Update README to thank Github Education

4 days ago

README.md

git-tutorials-siamcse2017

2017 SIAM Conference on Computational Science and Engineering

Under development, to be used in tutorials at the 2017 SIAM CSE Conference:

• Version Control with Git - Parts I and II

If you clone the repository, you should be able to open the file slides/part1.html for example in any browser.

Or you can view directly from these links:

• Part 1

• Part 2

Before the tutorial:

Please do the following in preparation for the tutorial:

• Make sure you have Git installed on your laptop, e.g. by attempting to clone this repository via:

ADME.md

13:20

git-tutorials-siamcse2017

part1.html

README

slides

branching1.png

branching2.png

branching3.png

branching4.png

branching5.png

branching6.png

git-stage.png

gitbranch7.png

head_attached.png

head_detached.png

index.html

part1.html

part2.html

README.md

remark-latest.min.js

LICENSE.md

1

2

3

4

5

6

7

8

9

10

11

12

13

14

git-tutor

2017 SIAM

Computational

Engineering

Under develop

tutorials at

Conference:

[Version

Parts I and

II](http://

sp_programs

1)

If you clone

should be ab

slides/part

any browser.

Or you can v

links:

Git Tutorial 1

Conference Program Online

uwescience/git-tutorials-siam

Git Tutorial 2

Pull Requests · rjleveque/gi

GitHub, Inc. [US]

https://github.com/uwescience/git-tutorials-siamcse2017

uwescience / git-tutorials-siamcse2017

Unwatch 10

Star 3

Fork 2

Code

Issues 0

Pull requests 0

Projects 0

Wiki

Pulse

Graphs

Settings

Git tutorial slides for the SIAM CSE 2017 conference

Edit

New Add topics

35 commits

2 branches

2 releases

2 contributors

Branch: master

New pull request

Create new file

Upload files

Find file

Clone or download

rjleveque demo instructions

Latest commit 4874e7b 2 hours ago

slides demo instructions 2 hours ago

LICENSE.md Added CC-BY license 29 days ago

README.md Update README to thank Github Education 4 days ago

README.md

git-tutorials-siamcse2017

2017 SIAM Conference on Computational Science and Engineering

Under development, to be used in tutorials at the 2017 SIAM CSE Conference:

Version Control with Git - Parts I and II

If you clone the repository, you should be able to open the file slides/part1.html for example in any browser.

Or you can view directly from these links:

https://github.com/uwescience/git-tutorials-siamcse2017/commit/4874e7bfe50c4651ef1862e4e709532d42288f05

git-tutorials-siamcse2017

part1.html

README

slides

branching1.png

branching2.png

branching3.png

branching4.png

branching5.png

branching6.png

git-stage.png

gitbranch7.png

head_attached.png

head_detached.png

index.html

part1.html

part2.html

README.md

remark-latest.min.js

LICENSE.md

1

2

3

4

5

6

7

8

9

10

11

12

13

14

git-tutorial

2017 SIAM Conference on Computational Science and Engineering

Under development, to be used in tutorials at the 2017 SIAM CSE Conference:

• [Version Control with Git - Parts I and II](http://sp_programs1)

If you clone the repository, you should be able to open the file `slides/part1.html` for example in any browser.

Or you can view the links:

Chrome

File

Edit

View

History

Bookmarks

People

Window

Help

Git Tutorial 1

Conference Program Online

uwescience/git-tutorials-siamcse2017

Git Tutorial 2

Pull Requests - rjleveque/git-tutorials-siamcse2017

GitHub, Inc. [US]

https://github.com/uwescience/git-tutorials-siamcse2017

This repository

Search

Pull requests

Issues

Gist

Unwatch

10

Star

3

Fork

2

Code

Issues 0

Pull requests 0

Projects 0

Wiki

Pulse

Graphs

Settings

Git tutorial slides for the SIAM CSE 2017 conference

Edit

New

Add topics

35 commits

2 branches

2 releases

2 contributors

Branch: master

New pull request

Create new file

Upload files

Find file

Clone or download

rjleveque demo instructions

Latest commit 4874e7b 2 hours ago

slides demo instructions 2 hours ago

LICENSE.md Added CC-BY license 29 days ago

README.md Update README to thank Github Education 4 days ago

README.md

git-tutorials-siamcse2017

2017 SIAM Conference on Computational Science and Engineering

Under development, to be used in tutorials at the 2017 SIAM CSE Conference:

• Version Control with Git - Parts I and II

If you clone the repository, you should be able to open the file `slides/part1.html` for example in any browser.

AtomFileEditViewSelectionFindPackagesWindowHelp

git-tutorials-siamcse2017

part1.html x README.md x

slides

branching1.png
branching2.png
branching3.png
branching4.png
branching5.png
branching6.png
git-stage.png
gitbranch7.png
head_attached.png
head_detached.png
index.html
part1.html
part2.html
README.md
remark-latest.min.js
LICENSE.md

1

2

3

4

5

6

7

8

9

10

11

12

13

14

```
## git-tutorials-siamcse2017

### 2017 SIAM Conference on
Computational Science and
Engineering

Under development, to be used in
tutorials at the 2017 SIAM CSE
Conference:

- [Version Control with Git -
Parts I and
II](http://meetings.siam.org/sess/d
sp_programsess.cfm?SESSIONCODE=6149
1)

If you clone the repository, you
should be able to open the file
`slides/part1.html` for example in
any browser.

Or you can view directly from these
links:
```

git-tutorials-siamcse2017

2017 SIAM Conference on Computational Science and Engineering

Under development, to be used in tutorials at the 2017 SIAM CSE Conference:

- Version Control with Git - Parts I and II

If you clone the repository, you should be able to open the file `slides/part1.html` for example in any browser.

Or you can view directly from these links:

- Part 1
- Part 2

Before the tutorial:

Please do the following in preparation for the tutorial:

- Make sure you have Git installed on your laptop, e.g. by attempting to clone this repository via:

```
git clone https://github.com/uwescience/git-tutorials-siamcse2017.git
```

If you don't have Git installed, see for example [Installing Git](#) from the [Git Book](#) or the [Software Carpentry instructions](#) below.

If you cloned the repository earlier and want to update with recent changes:

```
cd git-tutorials-siamcse2017
git pull
```

- Know how to use basic command line instructions in a Unix shell, such as `cd`, `ls`, etc. See for example: <http://swcarpentry.github.io/shell-novice/>
- Have an editor that you know how to use for modifying files. (e.g. nano, vim, emacs, etc.)
- For Part 2, you should also have a Github account. Create a free account at

100% Mon Feb 27 10:37 AM Randall LeVeque

Pull Requests · rleveque/git · x

Unwatch 10 Star 3 Fork 2

Graphs Settings

Edit

2 contributors

Upload files Find file Clone or download

Latest commit 4874e7b 2 hours ago

2 hours ago

29 days ago

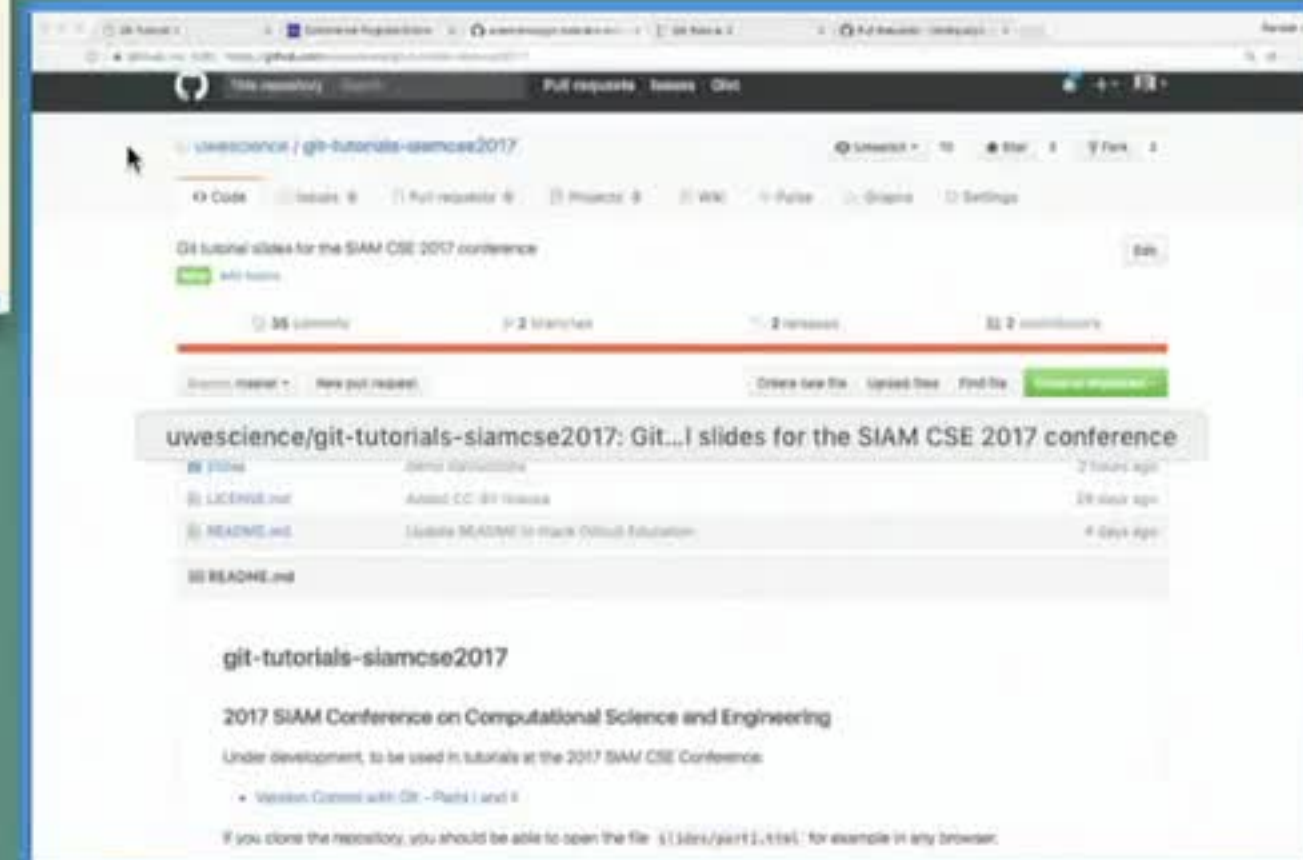
4 days ago

sample in any browser.


```

1 # git-tutorials-siamcse2017
2
3
4 ## 2017 SIAM Conference on
5 Computational Science and
6 Engineering
7
8 Under development, to be used in
9 tutorials at the 2017 SIAM CSE
10 Conference:
11
12 - [Version Control with Git -
13 Parts I and
14 II](http://meetings.siam.org/session/6149
15 sp_programsess.cfm?SESSIONCODE=6149
16 II)
17
18 If you clone the repository, you
19 should be able to open the file
20 'slides/part1.html' for example in
21 any browser.
22
23 Or you can view directly from these
24 links:

```



```

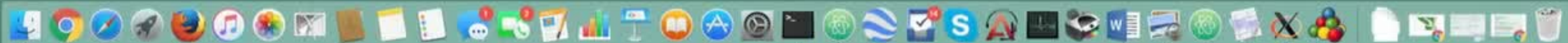
Last login: Sun Feb 26 04:46:52 AM 1983
root@rjl:~# cd /Users/rjl
root@rjl:~/git-tutorials-siamcse2017$ ls -la
total 16
drwxr-xr-x  3 root root  128 Feb 26 04:46 .
drwxr-xr-x  3 root root  128 Feb 26 04:46 ..
-rw-r--r--  1 root root   11 Feb 26 04:46 .gitignore
-rw-r--r--  1 root root  112 Feb 26 04:46 LICENSE.md
-rw-r--r--  1 root root  112 Feb 26 04:46 README.md
drwxr-xr-x  2 root root  128 Feb 26 04:46 slides

```

```

$ pwd
/Users/rjl/git/uwescience/git-tutorials-siamcse2017
$ ls -la
./
../
$ ls .git
COMMIT_EDITMSG  description  logs/
FETCH_HEAD     gitk.cache  objects/
HEAD           hooks/      refs/
ORIG_HEAD      index
config         info/
$ atom -n README.md
$ ls
LICENSE.md  README.md  slides/
$ ls slides
README.md          gitbranch7.png
branching1.png     head_attached.png
branching2.png     head_detached.png
branching3.png     index.html
branching4.png     part1.html
branching5.png     part2.html
branching6.png     remark-latest.min.js
git-stage.png
$

```



git-tutorials-siamcse2017

part1.html

README

git

slides

branching1.png

branching2.png

branching3.png

branching4.png

branching5.png

branching6.png

git-stage.png

gitbranch7.png

head_attached.png

head_detached.png

index.html

part1.html

part2.html

README.md

remark-latest.min.js

LICENSE.md

1

2

3

4

5

6

7

8

9

10

11

12

13

14

git-tutor

2017 SIAM

Computational

Engineering

Under developo

tutorials at

Conference:

- [Version

Parts I and

II](http://

sp_programs

1)

If you clone

should be ab

`slides/part

any browser.

Or you can v

links:

Chrome

File

Edit

View

History

Bookmarks

People

Window

Help

Git Tutorial 1

Conference Program Online

uwescience/git-tutorials-siam

Git Tutorial 2

Pull Requests · rjleveque/git

GitHub, Inc. [US]

https://github.com/uwescience/git-tutorials-siamcse2017

This repository

Search

Pull requests

Issues

Gist

Unwatch

10

Star

3

Fork

2

Code

Issues 0

Pull requests 0

Projects 0

Wiki

Pulse

Graphs

Settings

Git tutorial slides for the SIAM CSE 2017 conference

Edit

New

Add topics

35 commits

2 branches

2 releases

2 contributors

Branch: master

New pull request

Create new file

Upload files

Find file

Clone or download

rjleveque demo instructions

Latest commit 4874e7b 2 hours ago

slides demo instructions 2 hours ago

LICENSE.md Added CC-BY license 29 days ago

README.md Update README to thank Github Education 4 days ago

README.md

git-tutorials-siamcse2017

2017 SIAM Conference on Computational Science and Engineering

Under development, to be used in tutorials at the 2017 SIAM CSE Conference:

• Version Control with Git - Parts I and II

If you clone the repository, you should be able to open the file slides/part1.html for example in any browser.

git-tutorials-siamcse2017

git

slides

branching1.png

branching2.png

branching3.png

branching4.png

branching5.png

branching6.png

git-stage.png

gitbranch7.png

head_attached.png

head_detached.png

index.html

part1.html

part2.html

README.md

remark-latest.min.js

LICENSE.md

part1.html

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

38

39

40

41

42

43

44

45

46

47

48

49

50

51

52

53

54

55

56

57

58

59

60

61

62

63

64

65

66

67

68

69

70

71

72

73

74

75

76

77

78

79

80

81

82

83

84

85

86

87

88

89

90

91

92

93

94

95

96

97

98

99

100

101

102

103

104

105

106

107

108

109

110

111

112

113

114

115

116

117

118

119

120

121

122

123

124

125

126

127

128

129

130

131

132

133

134

135

136

137

138

139

140

141

142

143

144

145

146

147

148

149

150

151

152

153

154

155

156

157

158

159

160

161

162

163

164

165

166

167

168

169

170

171

172

173

174

175

176

177

178

179

180

181

182

183

184

185

186

187

188

189

190

191

192

193

194

195

196

197

198

199

200

201

202

203

204

205

206

207

208

209

210

211

212

213

214

215

216

217

218

219

220

221

222

223

224

225

226

227

228

229

230

231

232

233

234

235

236

237

238

239

240

241

242

243

244

245

246

247

248

249

250

251

252

253

254

255

256

257

258

259

260

261

262

263

264

265

266

267

268

269

270

271

272

273

274

275

276

277

278

279

280

281

282

283

284

285

286

287

288

289

290

291

292

293

294

295

296

297

298

299

300

301

302

303

304

305

306

307

308

309

310

311

312

313

314

315

316

317

318

319

320

321

322

323

324

325

326

327

328

329

330

331

332

333

334

335

336

337

338

339

340

341

342

343

344

345

346

347

348

349

350

351

352

353

354

355

356

357

358

359

360

361

362

363

364

365

366

367

368

369

370

371

372

373

374

375

376

377

378

379

380

381

382

383

384

385

386

387

388

389

390

391

392

393

394

395

396

397

398

399

400

401

402

403

404

405

406

407

408

409

410

411

412

413

414

415

416

417

418

419

420

421

422

423

424

425

426

427

428

429

430

431

432

433

434

435

436

437

438

439

440

441

442

443

444

445

446

447

448

449

450

451

452

453

454

455

456

457

458

459

460

461

462

463

464

465

466

467

468

469

470

471

472

473

474

475

476

477

478

479

480

481

482

483

484

485

486

487

488

489

490

491

492

493

494

495

496

497

498

499

500

501

502

503

504

505

506

507

508

509

510

511

512

513

514

515

516

517

518

519

520

521

522

523

524

525

526

527

528

529

530

531

532

533

534

535

536

537

538

539

540

541

542

543

544

545

546

547

548

549

550

551

552

553

554

555

556

557

558

559

560

561

562

563

564

565

566

567

568

569

570

571

572

573

574

575

576

577

578

579

580

581

582

583

584

585

586

587

588

589

590

591

592

593

594

595

596

597

598

599

600

601

602

603

604

605

606

607

608

609

610

611

612

613

614

615

616

617

618

619

620

621

622

623

624

625

626

627

628

629

630

631

632

633

634

635

636

637

638

639

640

641

642

643

644

645

646

647

648

649

650

651

652

653

654

655

656

657

658

659

660

661

662

663

664

665

666

667

668

669

670

671

672

673

674

675

676

677

678

679

680

681

682

683

684

685

686

687

688

689

690

691

692

693

694

695

696

697

698

699

700

701

702

703

704

705

706

707

708

709

710

711

712

713

714

715

716

717

718

719

720

721

722

723

724

725

726

727

728

729

730

731

732

733

734

735

736

737

738

739

740

741

742

743

744

745

746

747

748

749

750

751

752

753

754

755

756

757

758

759

760

761

762

763

764

765

766

767

768

769

770

771

772

773

774

775

776

777

778

779

780

781

782

783

784

785

786

787

788

789

790

791

792

793

794

795

796

797

798

799

800

801

802

803

804

805

806

807

808

809

810

811

812

813

814

815

816

817

818

819

820

821

822

823

824

825

826

827

828

829

830

831

832

833

834

835

836

837

838

839

840

841

842

843

844

845

846

847

848

849

850

851

852

853

854

855

856

857

858

859

860

861

862

863

864

865

866

867

868

869

870

871

872

873

874

875

876

877

878

879

880

881

882

883

884

885

886

887

888

889

890

891

892

893

894

895

896

897

898

899

900

901

902

903

904

905

906

907

908

909

910

911

912

913

914

915

916

917

918

919

920

921

922

923

924

925

926

927

928

929

930

931

932

933

934

935

936

937

938

939

940

941

942

943

944

945

946

947

948

949

950

951

952

953

954

955

956

957

958

959

960

961

962

963

964

965

966

967

968

969

970

971

972

973

974

975

976

977

978

979

980

981

982

983

984

985

986

987

988

989

990

991

992

993

994

995

996

997

998

999

1000

1001

1002

1003

1004

1005

1006

1007

1008

1009

1010

1011

1012

1013

1014

1015

1016

1017

1018

1019

1020

1021

1022

1023

1024

1025

1026

1027

1028

1029

1030

1031

1032

1033

1034

1035

1036

1037

1038

1039

1040

1041

1042

1043

1044

1045

1046

1047

1048

1049

1050

1051

1052

1053

1054

1055

1056

1057

1058

1059

1060

1061

1062

1063

1064

1065

1066

1067

1068

1069

1070

1071

1072

1073

1074

1075

1076

1077

1078

1079

1080

1081

1082

1083

1084

1085

1086

1087

1088

1089

1090

1091

1092

1093

1094

1095

1096

1097

1098

1099

1100

1101

1102

1103

1104

1105

1106

1107

1108

1109

1110

1111

1112

1113

1114

1115

1116

1117

1118

1119

1120

1121

1122

1123

1124

1125

1126

1127

1128

1129

1130

1131

1132

1133

1134

1135

1136

1137

1138

1139

1140

1141

1142

1143

1144

1145

1146

1147

1148

1149

1150

1151

1152

1153

1154

1155

1156

1157

1158

1159

1160

1161

1162

1163

1164

1165

1166

1167

1168

1169

1170

1171

1172

1173

1174

1175

1176

1177

1178

1179

1180

1181

1182

1183

1184

1185

1186

1187

1188

1189

1190

1191

1192

1193

1194

1195

1196

1197

1198

1199

1200

1201

1202

1203

1204

1205

1206

1207

1208

1209

1210

1211

1212

1213

1214

1215

1216

1217

1218

1219

1220

1221

1222

1223

1224

1225

1226

1227

1228

1229

1230

1231

1232

1233

1234

1235

1236

1237

1238

1239

1240

1241

1242

1243

1244

1245

1246

1247

1248

1249

1250

1251

1252

1253

1254

1255

1256

1257

1258

1259

1260

1261

1262

1263

1264

1265

1266

1267

1268

1269

1270

1271

1272

1273

1274

1275

1276

1277

1278

1279

1280

1281

1282

1283

1284

1285

1286

1287

1288

1289

1290

1291

1292

1293

1294

1295

1296

1297

1298

1299

1300

1301

1302

1303

1304

1305

1306

1307

1308

1309

1310

1311

1312

1313

1314

1315

1316

1317

1318

1319

1320

1321

1322

1323

1324

1325

1326

1327

1328

1329

1330

1331

1332

1333

1334

1335

1336

1337

1338

1339

1340

1341

1342

1343

1344

1345

1346

1347

1348

1349

1350

1351

1352

1353

1354

1355

1356

1357

1358

1359

1360

1361

1362

1363

1364

1365

1366

1367

1368

1369

1370

1371

1372

1373

1374

1375

1376

1377

1378

1379

1380

1381

1382

1383

1384

1385

1386

1387

1388

1389

1390

1391

1392

1393

1394

1395

1396

1397

1398

1399

1400

1401

1402

1403

1404

1405

1406

1407

1408

1409

1410

1411

1412

1413

1414

1415

1416

1417

1418

1419

1420

1421

1422

1423

1424

1425

1426

1427

1428

1429

1430

1431

1432

1433

1434

1435

1436

1437

1438

1439

1440

1441

1442

1443

1444

1445

1446

1447

1448

1449

1450

1451

1452

1453

1454

1455

1456

1457

1458

1459

1460

1461

1462

1463

1464

1465

1466

1467

1468

1469

1470

1471

1472

1473

1474

1475

1476

14

Atom

File

Edit

View

Selection

Find

Packages

Window

Help

git-tutorials-siamcse2017

part1.html

README.md

git

slides

branching1.png

branching2.png

branching3.png

branching4.png

branching5.png

branching6.png

git-stage.png

gitbranch7.png

head_attached.png

head_detached.png

index.html

part1.html

part2.html

README.md

remark-latest.min.js

LICENSE.md

1

2

3

4

5

6

7

8

9

10

11

12

13

14

git-tutorials-siamcse2017

2017 SIAM Conference on Computational Science and Engineering

Under development, to be used in tutorials at the 2017 SIAM CSE Conference:

- Version Control with Git - Parts I and II

If you clone the repository, you should be able to open the file `slides/part1.html` for example in any browser.

Or you can view directly from these links:

- Part 1
- Part 2

Before the tutorial:

Please do the following in preparation for the tutorial:

- Make sure you have Git installed on your laptop, e.g. by attempting to clone this repository via:

```
git clone https://github.com/uwescience/git-tutorials-siamcse2017.git
```
- If you don't have Git installed, see for example [Installing Git](#) from the [Git Book](#) or the [Software Carpentry](#) instructions below.
- If you cloned the repository earlier and want to update with recent changes:

```
cd git-tutorials-siamcse2017
git pull
```
- Know how to use basic command line instructions in a Unix shell, such as `cd`, `ls`, etc. See for example: <http://swcarpentry.github.io/shell-novice/>
- Have an editor that you know how to use for modifying files. (e.g. nano, vim, emacs, etc.)
- For Part 2, you should also have a Github account. Create a free account at

git-tutorials-siamcse2017

2017 SIAM Conference on Computational Science and Engineering

Under development, to be used in tutorials at the 2017 SIAM CSE Conference:

- Version Control with Git - Parts I and II

If you clone the repository, you should be able to open the file `slides/part1.html` for example in any browser.

Or you can view directly from these links:

- Part 1
- Part 2

Before the tutorial:

Please do the following in preparation for the tutorial:

- Make sure you have Git installed on your laptop, e.g. by attempting to clone this repository via:

```
git clone https://github.com/uwescience/git-tutorials-siamcse2017.git
```
- If you don't have Git installed, see for example [Installing Git](#) from the [Git Book](#) or the [Software Carpentry](#) instructions below.
- If you cloned the repository earlier and want to update with recent changes:

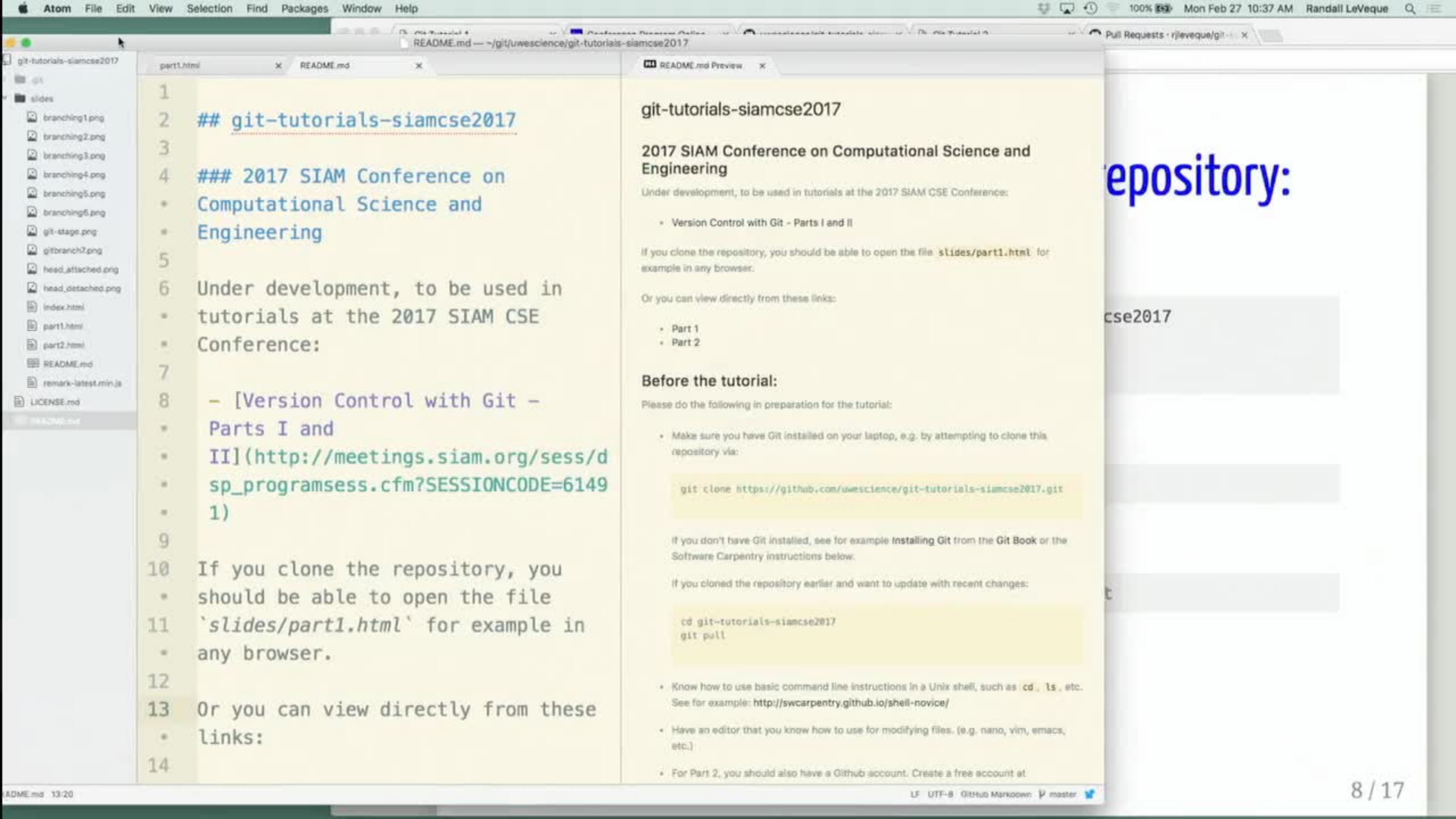
```
cd git-tutorials-siamcse2017
git pull
```
- Know how to use basic command line instructions in a Unix shell, such as `cd`, `ls`, etc. See for example: <http://swcarpentry.github.io/shell-novice/>
- Have an editor that you know how to use for modifying files. (e.g. nano, vim, emacs, etc.)
- For Part 2, you should also have a Github account. Create a free account at

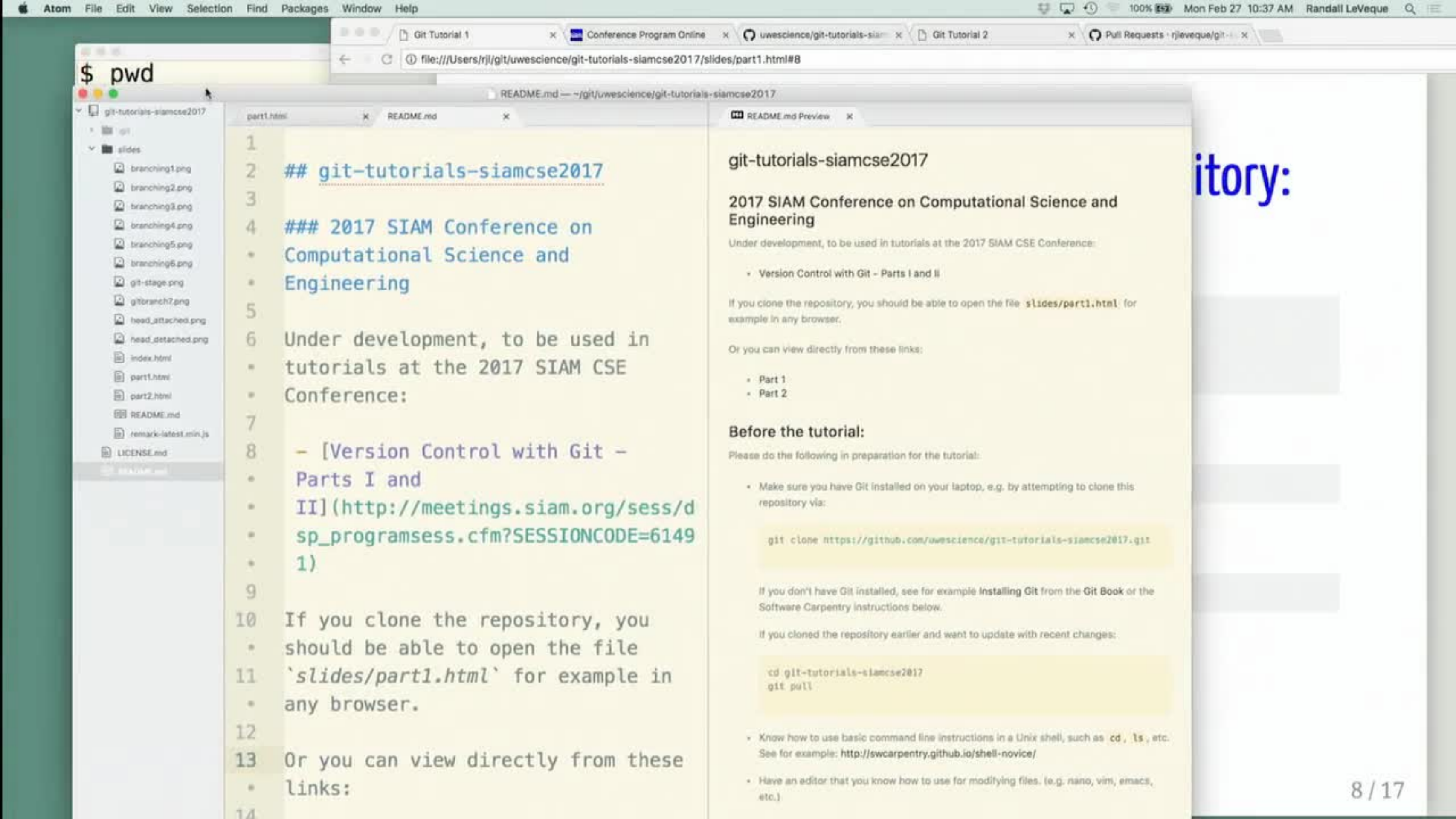
repository:

cse2017

t

8 / 17






```
$ pwd
/Users/rjl/git/uw
$ ls -a
./
```

Or start by cloning an existing repository:

git-tutorials-siamcse2017
git
slides
branching1.png
branching2.png
branching3.png
branching4.png
branching5.png
branching6.png
git-stage.png
gitbranch7.png
head_attached.png
head_detached.png
index.html
part1.html
part2.html
README.md
remark-latest.min.js
LICENSE.md
README.md

part1.html
1
2
3
4
5
6
7
8
9
10
11

```

## git-tutorials-siamcse2017

### 2017 SIAM Conference on
Computational Science and
Engineering

Under development, to be used in
tutorials at the 2017 SIAM CSE
Conference:

- [Version Control with Git -
Parts I and
II](http://meetings.siam.org/sess/d
sp_programsess.cfm?SESSIONCODE=6149
1)

If you clone the repository, you
should be able to open the file
`slides/part1.html` for example in
any browser.
```

README.md Preview
git-tutorials-siamcse2017

2017 SIAM Conference on Computational Science and Engineering

Under development, to be used in tutorials at the 2017 SIAM CSE Conference:

- Version Control with Git - Parts I and II

If you clone the repository, you should be able to open the file `slides/part1.html` for example in any browser.

Or you can view directly from these links:

- Part 1
- Part 2

Before the tutorial:

Please do the following in preparation for the tutorial:

- Make sure you have Git installed on your laptop, e.g. by attempting to clone this repository via:

```
git clone https://github.com/uwescience/git-tutorials-siamcse2017.git
```

If you don't have Git installed, see for example [Installing Git](#) from the [Git Book](#) or the [Software Carpentry](#) instructions below.

If you cloned the repository earlier and want to update with recent changes:

```
cd git-tutorials-siamcse2017
git pull
```

```
$ pwd
/Users/rjl/git/uwescience/git-tutorials-siamcse2017
$ ls -a
./          .git/      README.md
../         LICENSE.md slides/
$ ls .git
COMMIT_EDITMSG  description  logs/
FETCH_HEAD     gitk.cache  objects/
HEAD           hooks/      refs/
ORIG_HEAD      index
config         info/
$ atom -n README.md
$ ls
LICENSE.md      README.md    slides/
$ ls slides
README.md      gitbranch7.png
branching1.png head_attached.png
branching2.png head_detached.png
branching3.png index.html
branching4.png part1.html
branching5.png part2.html
branching6.png remark-latest.min.js
git-stage.png
$ cl
```

victina ransitory:

itational Science and

017 SIAM CSE Conference:

pen the file `slides/part1.html` for

al:

op, e.g. by attempting to clone this

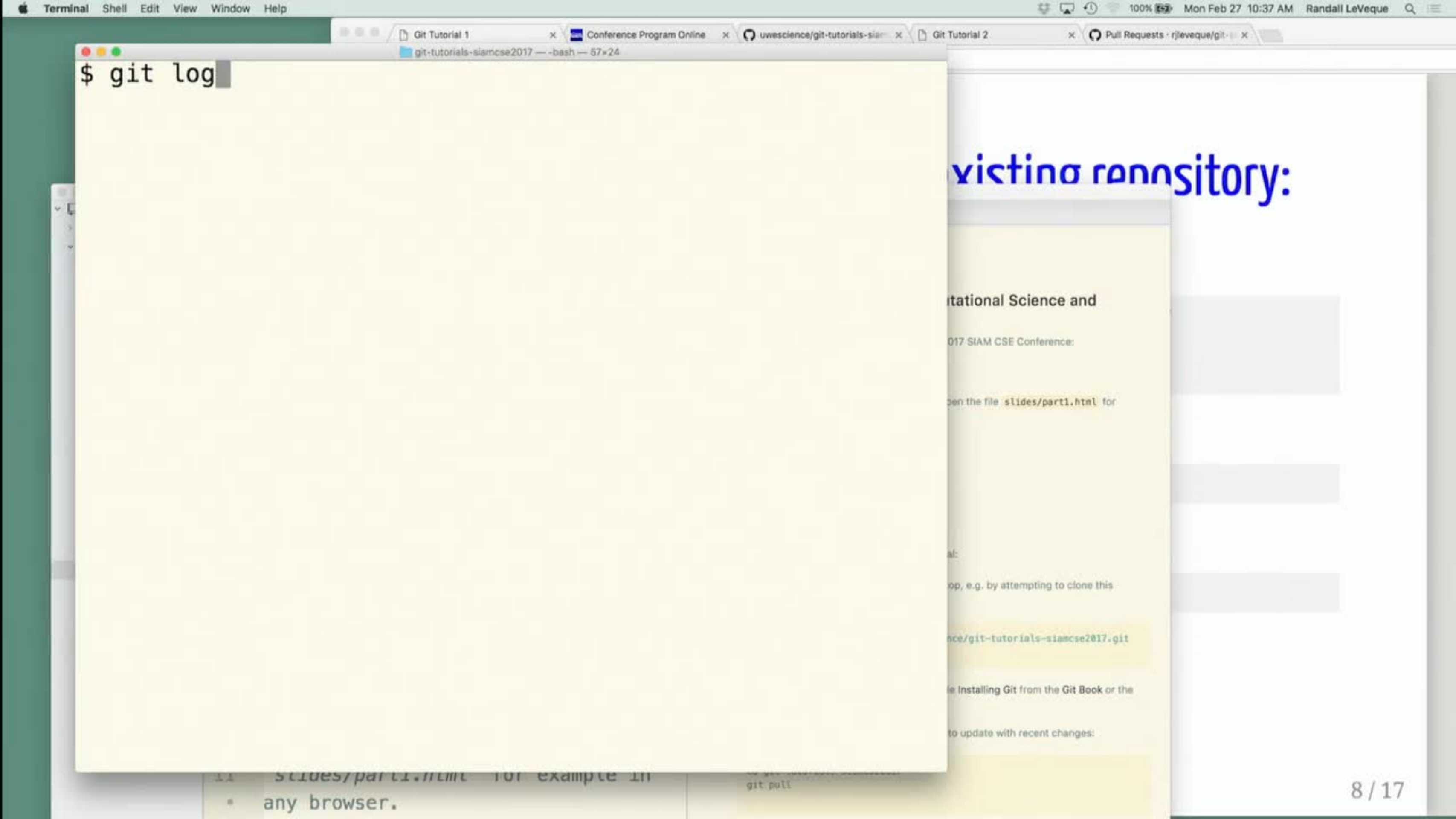
nce/git-tutorials-siamcse2017.git

le installing Git from the Git Book or the

to update with recent changes:

11 slides/part1.html for example in
• any browser.

git pull



```
$ git log
```

Victims repository:

Computational Science and

2017 SIAM CSE Conference:

Open the file `slides/part1.html` for

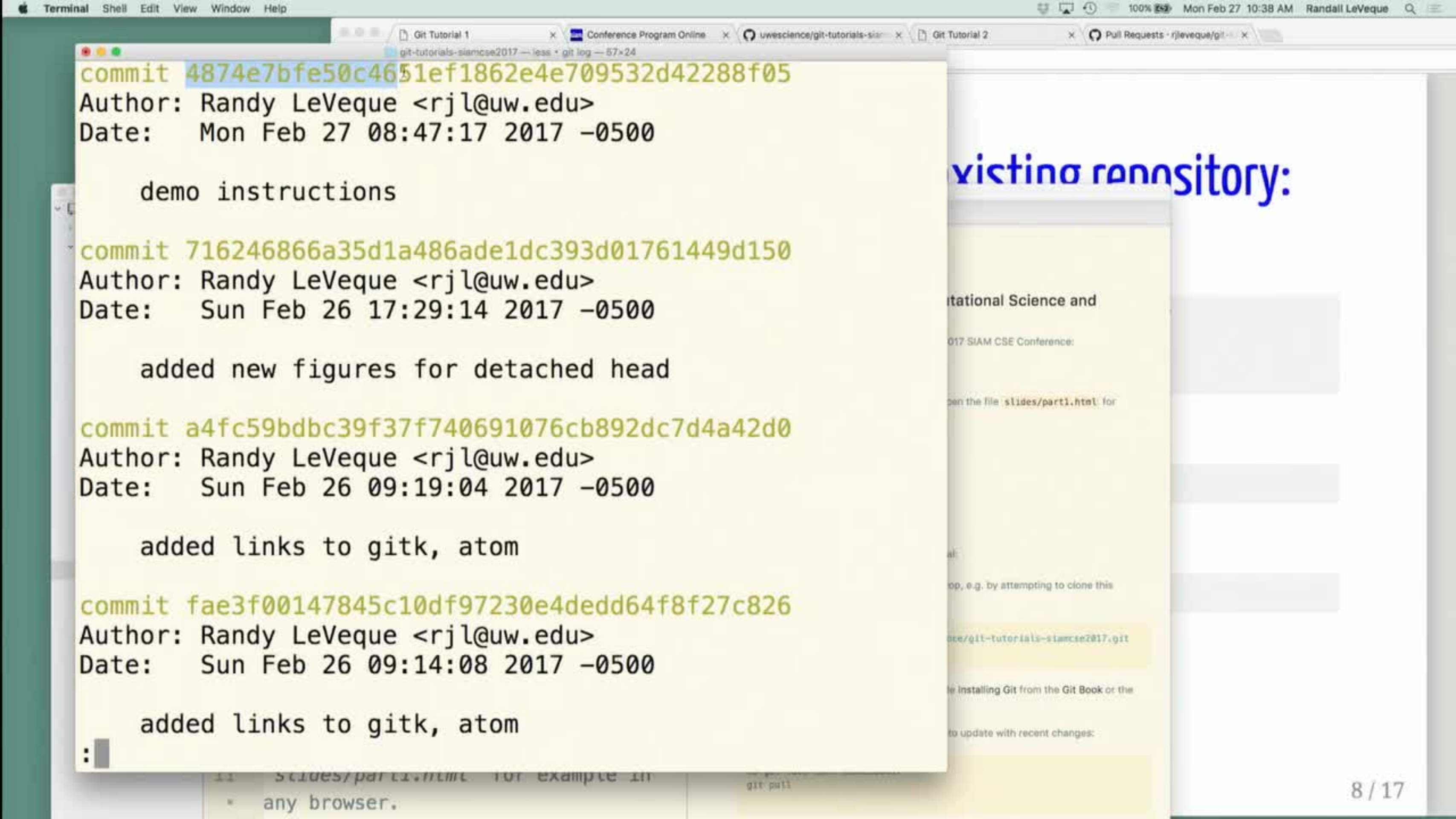
al:

op, e.g. by attempting to clone this

```
https://github.com/uwescience/git-tutorials-siamcse2017.git
```

le Installing Git from the [Git Book](#) or the

to update with recent changes:



```
commit 4874e7bfe50c4651ef1862e4e709532d42288f05
```

```
Author: Randy LeVeque <rjl@uw.edu>
```

```
Date: Mon Feb 27 08:47:17 2017 -0500
```

```
demo instructions
```

```
commit 716246866a35d1a486ade1dc393d01761449d150
```

```
Author: Randy LeVeque <rjl@uw.edu>
```

```
Date: Sun Feb 26 17:29:14 2017 -0500
```

```
added new figures for detached head
```

```
commit a4fc59bdbbc39f37f740691076cb892dc7d4a42d0
```

```
Author: Randy LeVeque <rjl@uw.edu>
```

```
Date: Sun Feb 26 09:19:04 2017 -0500
```

```
added links to gitk, atom
```

```
commit fae3f00147845c10df97230e4dedd64f8f27c826
```

```
Author: Randy LeVeque <rjl@uw.edu>
```

```
Date: Sun Feb 26 09:14:08 2017 -0500
```

```
added links to gitk, atom
```

```
:
```

victims repository:

Computational Science and

2017 SIAM CSE Conference:

Open the file `slides/part1.html` for

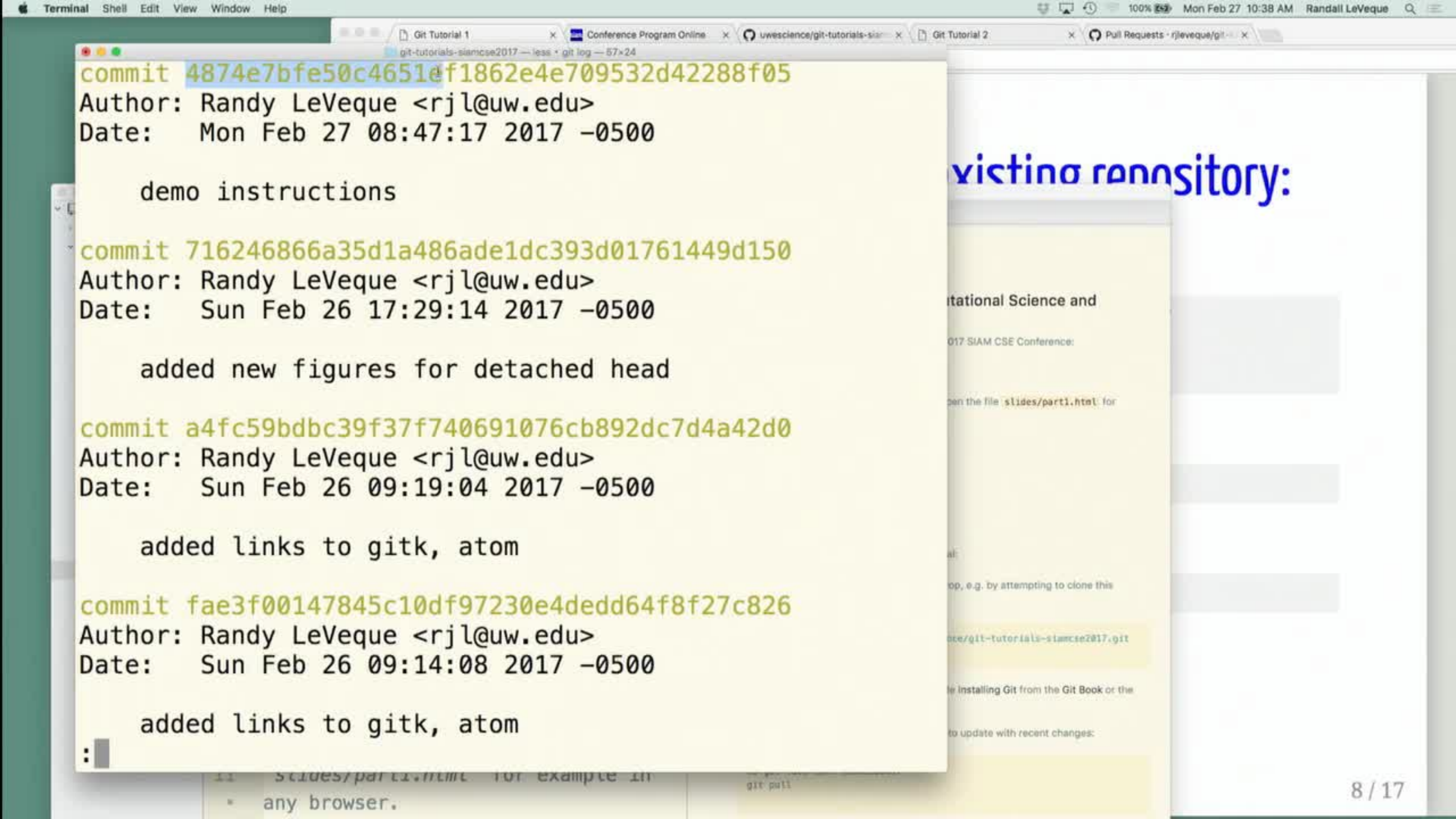
al:

top, e.g. by attempting to clone this

`uwescience/git-tutorials-siamcse2017.git`

by installing Git from the Git Book or the

to update with recent changes:



```
commit 4874e7bfe50c4651ef1862e4e709532d42288f05
```

```
Author: Randy LeVeque <rjl@uw.edu>
```

```
Date: Mon Feb 27 08:47:17 2017 -0500
```

```
demo instructions
```

```
commit 716246866a35d1a486ade1dc393d01761449d150
```

```
Author: Randy LeVeque <rjl@uw.edu>
```

```
Date: Sun Feb 26 17:29:14 2017 -0500
```

```
added new figures for detached head
```

```
commit a4fc59bdbbc39f37f740691076cb892dc7d4a42d0
```

```
Author: Randy LeVeque <rjl@uw.edu>
```

```
Date: Sun Feb 26 09:19:04 2017 -0500
```

```
added links to gitk, atom
```

```
commit fae3f00147845c10df97230e4dedd64f8f27c826
```

```
Author: Randy LeVeque <rjl@uw.edu>
```

```
Date: Sun Feb 26 09:14:08 2017 -0500
```

```
added links to gitk, atom
```

```
:
```

victims repository:

Computational Science and

2017 SIAM CSE Conference:

Open the file `slides/part1.html` for

al:

top, e.g. by attempting to clone this

`uwescience/git-tutorials-siamcse2017.git`

by installing Git from the Git Book or the

to update with recent changes:


```
commit 4874e7bfe50c4651ef1862e4e709532d42288f05
```

```
Author: Randy LeVeque <rjl@uw.edu>
```

```
Date: Mon Feb 27 08:47:17 2017 -0500
```

```
demo instructions
```

```
commit 716246866a35d1a486ade1dc393d01761449d150
```

```
Author: Randy LeVeque <rjl@uw.edu>
```

```
Date: Sun Feb 26 17:29:14 2017 -0500
```

```
added new figures for detached head
```

```
commit a4fc59bdbbc39f37f740691076cb892dc7d4a42d0
```

```
Author: Randy LeVeque <rjl@uw.edu>
```

```
Date: Sun Feb 26 09:19:04 2017 -0500
```

```
added links to gitk, atom
```

```
commit fae3f00147845c10df97230e4dedd64f8f27c826
```

```
Author: Randy LeVeque <rjl@uw.edu>
```

```
Date: Sun Feb 26 09:14:08 2017 -0500
```

```
added links to gitk, atom
```

```
:
```

victino ransitory:

Computational Science and

2017 SIAM CSE Conference:

Open the file `slides/part1.html` for

al:

top, e.g. by attempting to clone this

`https://github.com/rjl/git-tutorials-siamcse2017.git`

by installing Git from the Git Book or the

to update with recent changes:

11 slides/part1.html for example in
any browser.

git pull


```
branching4.png      part1.html
branching5.png      part2.html
branching6.png      remark-latest.min.js
git-stage.png
$ clear

$ git log
commit 4874e7bfe50c4651ef1862e4e709532d42288f05
Author: Randy LeVeque <rjl@uw.edu>
Date:   Mon Feb 27 08:47:17 2017 -0500

    demo instructions

commit 716246866a35d1a486ade1dc393d01761449d150
Author: Randy LeVeque <rjl@uw.edu>
Date:   Sun Feb 26 17:29:14 2017 -0500

    added new figures for detached head

commit a4fc59bdbbc39f37f740691076cb892dc7d4a42d0
Author: Randy LeVeque <rjl@uw.edu>
Date:   Sun Feb 26 09:19:04 2017 -0500

    added links to gitk, atom
```

victino repository:

Computational Science and

2017 SIAM CSE Conference:

Open the file `slides/part1.html` for

al:

op, e.g. by attempting to clone this

uwescience/git-tutorials-siamcse2017.git

le installing Git from the Git Book or the

to update with recent changes:

11 slides/part1.html for example in
any browser.

git pull


```
branching4.png      part1.html
branching5.png      part2.html
branching6.png      remark-latest.min.js
git-stage.png
$ clear
```

```
$ git log
```

```
commit 4874e7bfe50c4651ef1862e4e709532d42288f05
```

```
Author: Randy LeVeque <rjl@uw.edu>
```

```
Date:   Mon Feb 27 08:47:17 2017 -0500
```

```
demo instructions
```

```
commit 716246866a35d1a486ade1dc393d01761449d150
```

```
Author: Randy LeVeque <rjl@uw.edu>
```

```
Date:   Sun Feb 26 17:29:14 2017 -0500
```

```
added new figures for detached head
```

```
commit a4fc59bdbbc39f37f740691076cb892dc7d4a42d0
```

```
Author: Randy LeVeque <rjl@uw.edu>
```

```
Date:   Sun Feb 26 09:19:04 2017 -0500
```

```
added links to gitk, atom
```

victims repository:

Computational Science and

2017 SIAM CSE Conference:

Open the file `slides/part1.html` for

al:

op, e.g. by attempting to clone this

uwescience/git-tutorials-siamcse2017.git

le installing Git from the Git Book or the

to update with recent changes:


```
$ pwd
/Users/rjl/git/uwescience/git-tutorials-siamcse2017
$ ls -a
./          .git/      README.md
../         LICENSE.md slides/
$ ls .git
COMMIT_EDITMSG  description  logs/
FETCH_HEAD     gitk.cache  objects/
HEAD           hooks/      refs/
ORIG_HEAD      index
config         info/
$ atom -n README.md
$ ls
LICENSE.md      README.md    slides/
$ ls slides
README.md      gitbranch7.png
branching1.png head_attached.png
branching2.png head_detached.png
branching3.png index.html
branching4.png part1.html
branching5.png part2.html
branching6.png remark-latest.min.js
git-stage.png
```

victina repository:

Statistical Science and

2017 SIAM CSE Conference:

Open the file `slides/part1.html` for

at:

op, e.g. by attempting to clone this

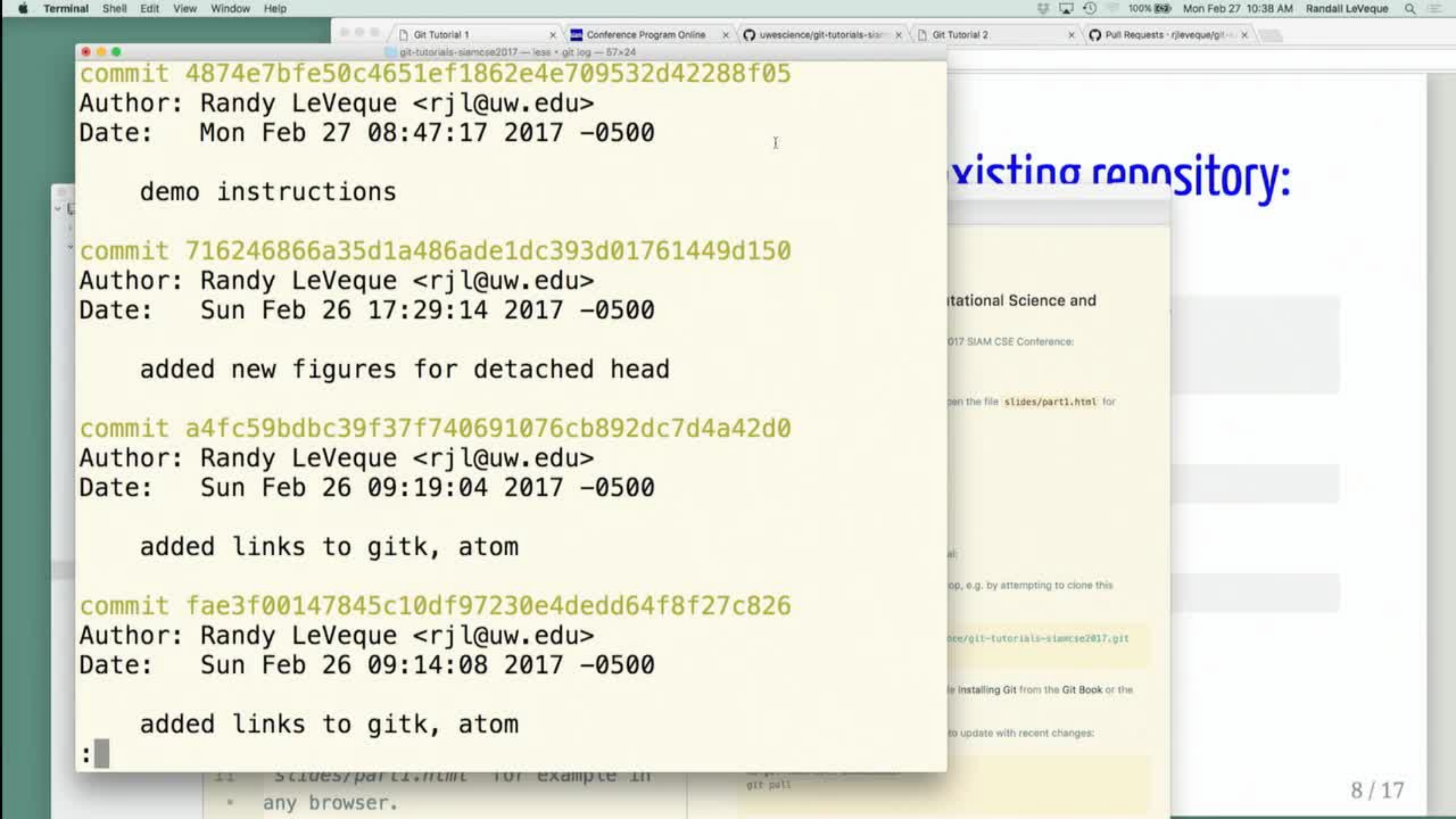
`uwescience/git-tutorials-siamcse2017.git`

le installing Git from the Git Book or the

to update with recent changes:

... slides/part1.html for example in
... any browser.

git pull



```
commit 4874e7bfe50c4651ef1862e4e709532d42288f05
```

```
Author: Randy LeVeque <rjl@uw.edu>
```

```
Date: Mon Feb 27 08:47:17 2017 -0500
```

```
demo instructions
```

```
commit 716246866a35d1a486ade1dc393d01761449d150
```

```
Author: Randy LeVeque <rjl@uw.edu>
```

```
Date: Sun Feb 26 17:29:14 2017 -0500
```

```
added new figures for detached head
```

```
commit a4fc59bdbbc39f37f740691076cb892dc7d4a42d0
```

```
Author: Randy LeVeque <rjl@uw.edu>
```

```
Date: Sun Feb 26 09:19:04 2017 -0500
```

```
added links to gitk, atom
```

```
commit fae3f00147845c10df97230e4dedd64f8f27c826
```

```
Author: Randy LeVeque <rjl@uw.edu>
```

```
Date: Sun Feb 26 09:14:08 2017 -0500
```

```
added links to gitk, atom
```

```
:
```

victims repository:

Computational Science and

2017 SIAM CSE Conference:

Open the file `slides/part1.html` for

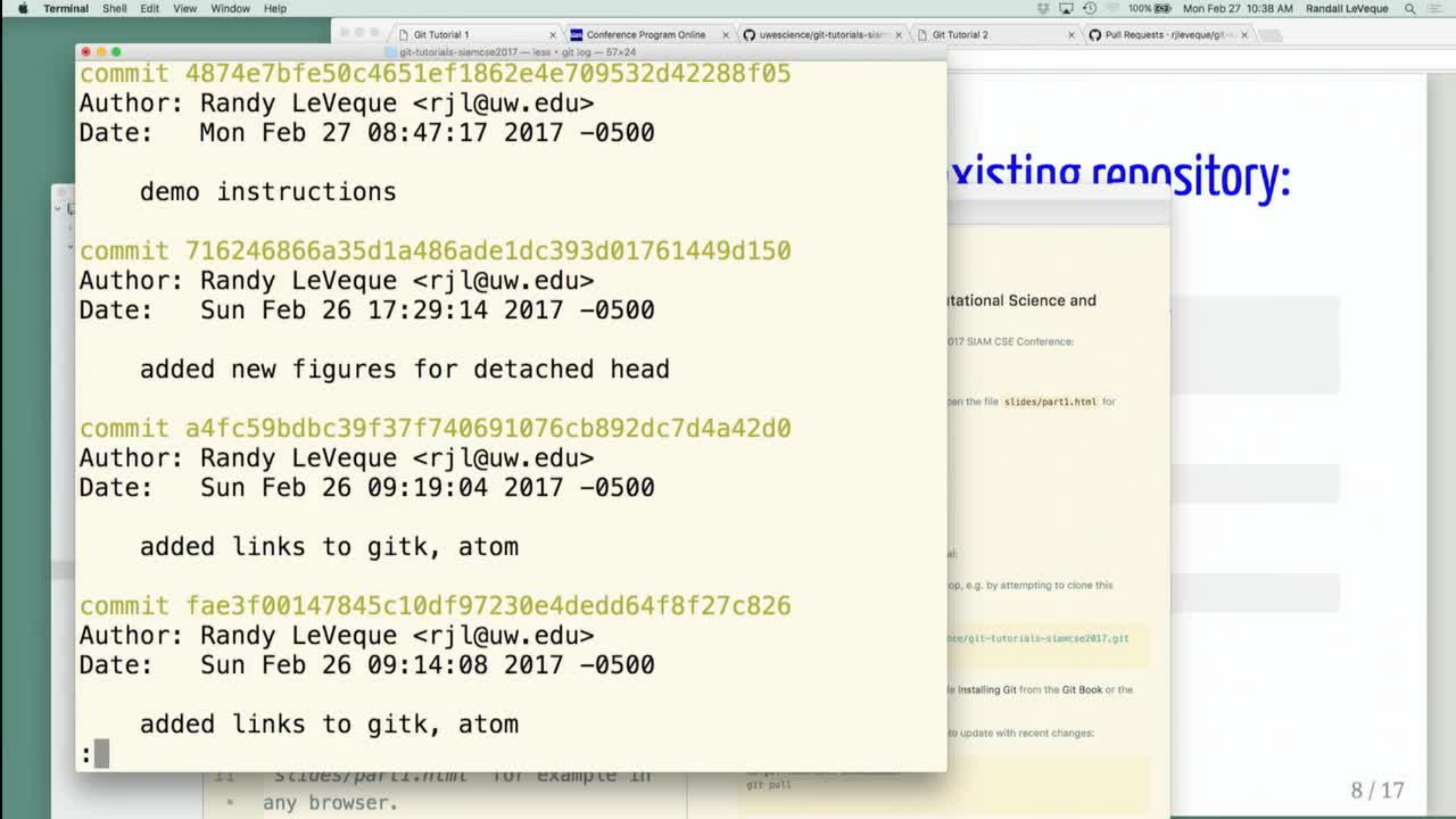
al:

op, e.g. by attempting to clone this

`uwescience/git-tutorials-siamcse2017.git`

by installing Git from the Git Book or the

to update with recent changes:



```
commit 4874e7bfe50c4651ef1862e4e709532d42288f05
```

```
Author: Randy LeVeque <rjl@uw.edu>
```

```
Date: Mon Feb 27 08:47:17 2017 -0500
```

```
demo instructions
```

```
commit 716246866a35d1a486ade1dc393d01761449d150
```

```
Author: Randy LeVeque <rjl@uw.edu>
```

```
Date: Sun Feb 26 17:29:14 2017 -0500
```

```
added new figures for detached head
```

```
commit a4fc59bdbbc39f37f740691076cb892dc7d4a42d0
```

```
Author: Randy LeVeque <rjl@uw.edu>
```

```
Date: Sun Feb 26 09:19:04 2017 -0500
```

```
added links to gitk, atom
```

```
commit fae3f00147845c10df97230e4dedd64f8f27c826
```

```
Author: Randy LeVeque <rjl@uw.edu>
```

```
Date: Sun Feb 26 09:14:08 2017 -0500
```

```
added links to gitk, atom
```

```
:
```

victims repository:

Computational Science and

2017 SIAM CSE Conference:

Open the file `slides/part1.html` for

al:

op, e.g. by attempting to clone this

`uwescience/git-tutorials-siamcse2017.git`

by installing Git from the Git Book or the

to update with recent changes:

Date: Thu Feb 23 13:31:47 2017 -0800

add link to Git Cheat Sheet to both slide decks

commit 9136090eb10b0a37ea4275c973955dc2d1731e31

Author: Randall J. LeVeque <rjl@uw.edu>

Date: Thu Feb 23 13:27:23 2017 -0800

Update README to thank Github Education

and I included a pointer to their Git cheat sheet.

commit dc0e36e659d308d88db7c4bb4585bb34a51e3458

Author: Randall J. LeVeque <rjl@uw.edu>

Date: Thu Feb 23 13:17:40 2017 -0800

Update README to include links to slides on website

Note that to update the version of the slides visible at <https://uwescience.github.io/git-tutorials-siamcse2017/slides/>, you need to push changes to the `gh-pages` branch

:

victims repository:

Computational Science and

2017 SIAM CSE Conference:

Open the file `slides/part1.html` for

al:

op, e.g. by attempting to clone this

`https://uwescience.github.io/git-tutorials-siamcse2017.git`

le installing Git from the Git Book or the

to update with recent changes:

11 slides/part1.html for example in

* any browser.

git pull

Date: Thu Feb 23 13:31:47 2017 -0800

add link to Git Cheat Sheet to both slide decks

commit 9136090eb10b0a37ea4275c973955dc2d1731e31

Author: Randall J. LeVeque <rjl@uw.edu>

Date: Thu Feb 23 13:27:23 2017 -0800

Update README to thank Github Education

and I included a pointer to their Git cheat sheet.

commit dc0e36e659d308d88db7c4bb4585bb34a51e3458

Author: Randall J. LeVeque <rjl@uw.edu>

Date: Thu Feb 23 13:17:40 2017 -0800

Update README to include links to slides on website

Note that to update the version of the slides visible at <https://uwescience.github.io/git-tutorials-siamcse2017/slides/>, you need to push changes to the `gh-pages` branch

:

victim repository:

Computational Science and

2017 SIAM CSE Conference:

Open the file `slides/part1.html` for

al:

op, e.g. by attempting to clone this

`https://uwescience.github.io/git-tutorials-siamcse2017.git`

le installing Git from the Git Book or the

to update with recent changes:

11 slides/part1.html for example in

* any browser.

git pull

Date: Thu Feb 23 13:31:47 2017 -0800

add link to Git Cheat Sheet to both slide decks

commit 9136090eb10b0a37ea4275c973955dc2d1731e31

Author: Randall J. LeVeque <rjl@uw.edu>

Date: Thu Feb 23 13:27:23 2017 -0800

Update README to thank Github Education

and I included a pointer to their Git cheat sheet.

commit dc0e36e659d308d88db7c4bb4585bb34a51e3458

Author: Randall J. LeVeque <rjl@uw.edu>

Date: Thu Feb 23 13:17:40 2017 -0800

Update README to include links to slides on website

Note that to update the version of the slides visible at <https://uwescience.github.io/git-tutorials-siamcse2017/slides/>, you need to push changes to the `gh-pages` branch

:

victoria ransitory:

Computational Science and

2017 SIAM CSE Conference:

Open the file `slides/part1.html` for

al:

op, e.g. by attempting to clone this

`https://uwescience.github.io/git-tutorials-siamcse2017.git`

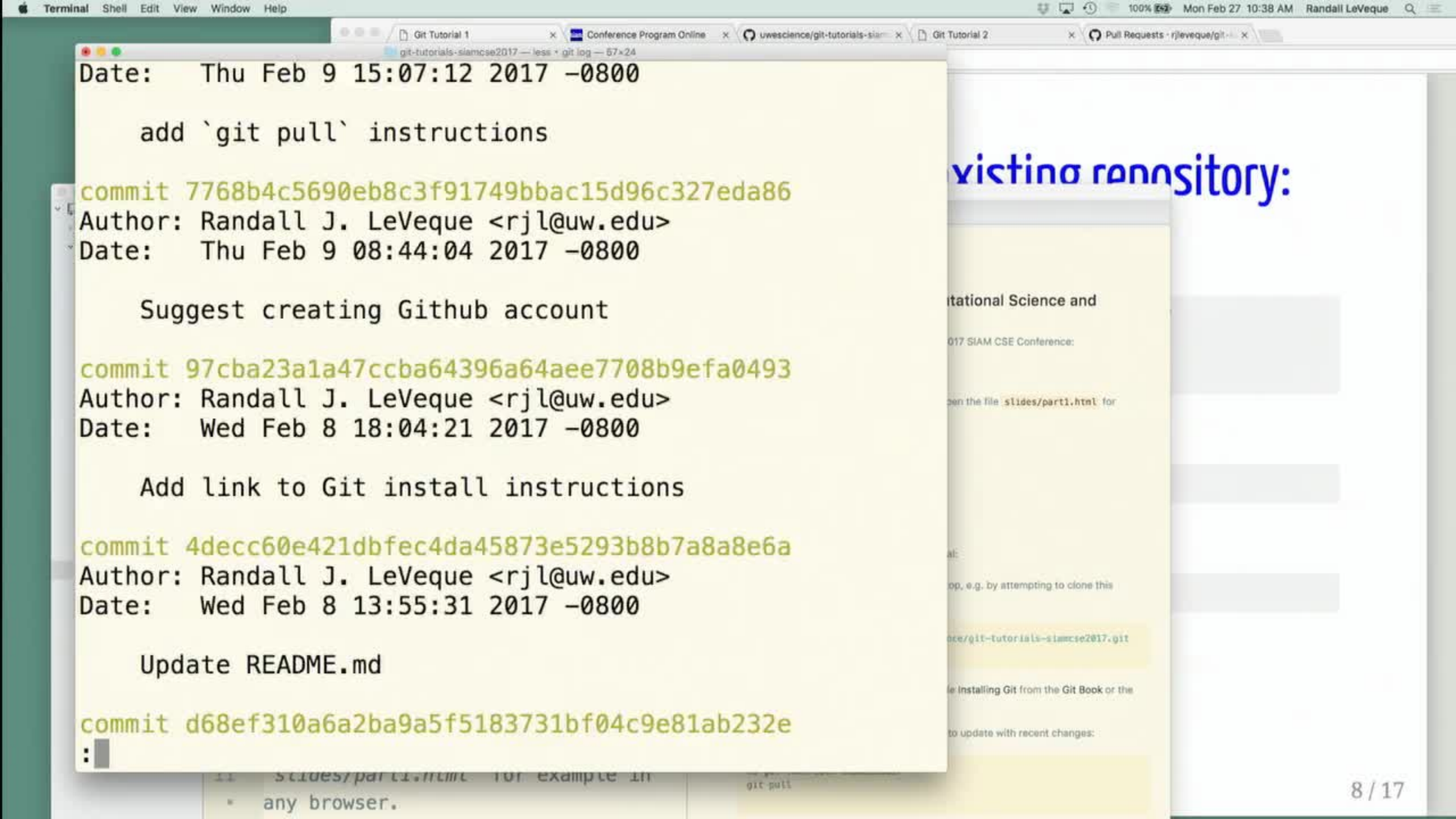
le installing Git from the Git Book or the

to update with recent changes:

11 slides/part1.html for example in

* any browser.

git pull



Date: Thu Feb 9 15:07:12 2017 -0800

add `git pull` instructions

commit 7768b4c5690eb8c3f91749bbac15d96c327eda86

Author: Randall J. LeVeque <rjl@uw.edu>

Date: Thu Feb 9 08:44:04 2017 -0800

Suggest creating Github account

commit 97cba23a1a47ccba64396a64aee7708b9efa0493

Author: Randall J. LeVeque <rjl@uw.edu>

Date: Wed Feb 8 18:04:21 2017 -0800

Add link to Git install instructions

commit 4decc60e421dbfec4da45873e5293b8b7a8a8e6a

Author: Randall J. LeVeque <rjl@uw.edu>

Date: Wed Feb 8 13:55:31 2017 -0800

Update README.md

commit d68ef310a6a2ba9a5f5183731bf04c9e81ab232e

:

victino ransitory:

Statistical Science and

2017 SIAM CSE Conference:

Open the file slides/part1.html for

al:

op, e.g. by attempting to clone this

u.washington.edu/git-tutorials-siamcse2017.git

le Installing Git from the Git Book or the

to update with recent changes:

11 slides/part1.html for example in

* any browser.

git pull

Date: Thu Feb 9 15:07:12 2017 -0800

add `git pull` instructions

commit 7768b4c5690eb8c3f91749bbac15d96c327eda86

Author: Randall J. LeVeque <rjl@uw.edu>

Date: Thu Feb 9 08:44:04 2017 -0800

Suggest creating Github account

commit 97cba23a1a47ccba64396a64aee7708b9efa0493

Author: Randall J. LeVeque <rjl@uw.edu>

Date: Wed Feb 8 18:04:21 2017 -0800

Add link to Git install instructions

commit 4decc60e421dbfec4da45873e5293b8b7a8a8e6a

Author: Randall J. LeVeque <rjl@uw.edu>

Date: Wed Feb 8 13:55:31 2017 -0800

Update README.md

commit d68ef310a6a2ba9a5f5183731bf04c9e81ab232e

:

victina repository:

Statistical Science and

2017 SIAM CSE Conference:

Open the file `slides/part1.html` for

al:

op, e.g. by attempting to clone this

uwescience/git-tutorials-siamcse2017.git

le Installing Git from the Git Book or the

to update with recent changes:

11 slides/part1.html for example in

* any browser.

git pull


```
Author: Randy LeVeque <rjl@uw.edu>
Date:   Sun Jan 29 12:55:11 2017 -0800
```

added slides on installation and documentation

```
commit e885b7209f51749c15da79110812525d66df97df
```

```
Author: Randy LeVeque <rjl@uw.edu>
Date:   Sun Jan 29 11:56:21 2017 -0800
```

First pass at slides/part1.html and remarkjs file needed to view them

```
commit 6793f268b9b8c8b7151c7640291d4058a3061214
```

```
Author: Randy LeVeque <rjl@uw.edu>
Date:   Sun Jan 29 11:20:27 2017 -0800
```

Added CC-BY license

```
commit 02eba6080c561fea283a5a39c24b000535f1b393
```

```
Author: Randy LeVeque <rjl@uw.edu>
Date:   Sun Jan 29 11:14:44 2017 -0800
```

Initial commit with minimal README

(END)

victoria ransitory:

Computational Science and

2017 SIAM CSE Conference:

Open the file `slides/part1.html` for

at:

op, e.g. by attempting to clone this

`uwescience/git-tutorials-siamcse2017.git`

le installing Git from the Git Book or the

to update with recent changes:

Author: Randy LeV
Date: Sun Jan 2

added slides

commit e885b72091

Author: Randy LeV
Date: Sun Jan 2

First pass at
ded to view them

commit 6793f268b9

Author: Randy LeV
Date: Sun Jan 2

Added CC-BY 1

commit 02eba6080c

Author: Randy LeV
Date: Sun Jan 2

Initial commi

(END)

Or start by cloning an existing repository:

For example, get these slides via:

```
git clone https://github.com/uwescience/git-tutorials-siamcse2017
cd git-tutorials-siamcse2017
ls -a # list files, including those "hidden" to see .git
```

The clone contains all the history!

```
git log
```

prints all the commits and the commit messages, or:

```
git log --oneline # gives one-line summary of each commit
```



```
Author: Randy LeVeque <rjl@uw.edu>
Date:   Sun Jan 29 12:55:11 2017 -0800
```

added slides on installation and documentation

```
commit e885b7209f51749c15da79110812525d66df97df
```

```
Author: Randy LeVeque <rjl@uw.edu>
Date:   Sun Jan 29 11:56:21 2017 -0800
```

First pass at slides/part1.html and remarkjs file needed to view them

```
commit 6793f268b9b8c8b7151c7640291d4058a3061214
```

```
Author: Randy LeVeque <rjl@uw.edu>
Date:   Sun Jan 29 11:20:27 2017 -0800
```

Added CC-BY license

```
commit 02eba6080c561fea283a5a39c24b000535f1b393
```

```
Author: Randy LeVeque <rjl@uw.edu>
Date:   Sun Jan 29 11:14:44 2017 -0800
```

Initial commit with minimal README

```
$
```

existing repository:

t-tutorials-siamcse2017

en" to see .git

essages, or:

ry of each commit

Author: Randy LeV
Date: Sun Jan 2

added slides

commit e885b72091

Author: Randy LeV
Date: Sun Jan 2

First pass at
ded to view them

commit 6793f268b9

Author: Randy LeV
Date: Sun Jan 2

Added CC-BY 1

commit 02eba6080c

Author: Randy LeV
Date: Sun Jan 2

Initial commi

\$

Or start by cloning an existing repository:

For example, get these slides via:

```
git clone https://github.com/uwescience/git-tutorials-siamcse2017
cd git-tutorials-siamcse2017
ls -a # list files, including those "hidden" to see .git
```

The clone contains all the history!

```
git log
```

prints all the commits and the commit messages, or:

```
git log --oneline # gives one-line summary of each commit
```



```
Author: Randy LeVeque <rjl@uw.edu>  
Date: Sun Jan 29 12:55:11 2017 -0800
```

added slides on installation and documentation

```
commit e885b7209f51749c15da79110812525d66df97df
```

```
Author: Randy LeVeque <rjl@uw.edu>  
Date: Sun Jan 29 11:56:21 2017 -0800
```

First pass at slides/part1.html and remarkjs file needed to view them

```
commit 6793f268b9b8c8b7151c7640291d4058a3061214
```

```
Author: Randy LeVeque <rjl@uw.edu>  
Date: Sun Jan 29 11:20:27 2017 -0800
```

Added CC-BY license

```
commit 02eba6080c561fea283a5a39c24b000535f1b393
```

```
Author: Randy LeVeque <rjl@uw.edu>  
Date: Sun Jan 29 11:14:44 2017 -0800
```

Initial commit with minimal README

```
$ cl
```

existing repository:

t-tutorials-siamcse2017

en" to see .git

essages, or:

ry of each commit

```
$ git log --oneline
```

existing repository:

```
git-tutorials-siamcse2017
```

```
en" to see .git
```

essages, or:

```
ry of each commit
```



```
4874e7b demo instructions
7162468 added new figures for detached head
a4fc59b added links to gitk, atom
fae3f00 added links to gitk, atom
b85efb9 added link to conference abstract
95899b0 Merge branch 'master' into gh-pages
6f1351d add link to Git Cheat Sheet to both slide decks
9136090 Update README to thank Github Education
dc0e36e Update README to include links to slides on website
aafb298 bare bones index.html
a4d934b cleaned up part1.html
199136a added more to part2.html
89660de Merge pull request #2 from ketch/master
a31d7ba Add branching figures.
5235863 Merge pull request #1 from ketch/master
653058f Add figures and slides on branching.
0088524 updates to part2 slides
345db36 link to github
ccbfccd update part1.html with some Github links, etc
0f0d6ff Changes to part1.html and addition of some figures
a3aa9a1 fix grammar
$
```

existing repository:

git-tutorials-siamcse2017

en" to see .git

essages, or:

ry of each commit


```
4874e7b demo inst
7162468 added new
a4fc59b added lin
fae3f00 added lin
b85efb9 added lin
95899b0 Merge bra
6f1351d add link
9136090 Update RE
dc0e36e Update RE
te
aafb298 bare bone
a4d934b cleaned u
199136a added mor
89660de Merge pul
a31d7ba Add bran
5235863 Merge pul
653058f Add figur
0088524 updates t
345db36 link to g
ccbfcdd update pa
0f0d6ff Changes t
s
a3aa9a1 fix gramm
$
```

Or start by cloning an existing repository:

For example, get these slides via:

```
git clone https://github.com/uwescience/git-tutorials-siamcse2017
cd git-tutorials-siamcse2017
ls -a # list files, including those "hidden" to see .git
```

The clone contains all the history!

```
git log
```

prints all the commits and the commit messages, or:

```
git log --oneline # gives one-line summary of each commit
```

Try this now.

Then open `git-tutorials-siamcse2017/slides/part1.html` if you want to view these slides in your browser.


```
4874e7b demo inst
7162468 added new
a4fc59b added lin
fae3f00 added lin
b85efb9 added lin
95899b0 Merge bra
6f1351d add link
9136090 Update RE
dc0e36e Update RE
te
aafb298 bare bone
a4d934b cleaned u
199136a added mor
89660de Merge pul
a31d7ba Add bran
5235863 Merge pul
653058f Add figur
0088524 updates t
345db36 link to g
ccbfcdd update pa
0f0d6ff Changes t
S
a3aa9a1 fix gramm
$
```

Git commit hash codes

Every time you do a `git commit` you create a new snapshot of the state of all tracked files.

Each commit has a "name" that is a unique 40-character hexadecimal string.

Example:

Scrolling through `git log` to the beginning shows the first 2 commits:

```
commit 6793f268b9b8c8b7151c7640291d4058a3061214
Author: Randy LeVeque <rjl@uw.edu>
Date:   Sun Jan 29 11:20:27 2017 -0800
```

Added CC-BY license

```
commit 02eba6080c561fea283a5a39c24b000535f1b393
Author: Randy LeVeque <rjl@uw.edu>
Date:   Sun Jan 29 11:14:44 2017 -0800
```

Initial commit with minimal README

The first 7 characters is usually enough to identify a commit, e.g. 02eba60.


```
4874e7b demo inst
7162468 added new
a4fc59b added lir
fae3f00 added lir
b85efb9 added lir
95899b0 Merge bra
6f1351d add link
9136090 Update RE
dc0e36e Update RE
te
aafb298 bare bone
a4d934b cleaned u
199136a added mor
89660de Merge pul
a31d7ba Add bran
5235863 Merge pul
653058f Add figur
0088524 updates t
345db36 link to g
ccbfccd update pa
0f0d6ff Changes t
s
a3aa9a1 fix gramn
$
```

Reverting to a previous version

Try this:

```
git checkout 02eba60
```

This restores the repository to the state after the first commit, when only one file README.md existed. (confirm this via `ls -a`)


```
4874e7b demo instructions
7162468 added new figures for detached head
a4fc59b added links to gitk, atom
fae3f00 added links to gitk, atom
b85efb9 added link to conference abstract
95899b0 Merge branch 'master' into gh-pages
6f1351d add link to Git Cheat Sheet to both slide decks
9136090 Update README to thank Github Education
dc0e36e Update README to include links to slides on website
aafb298 bare bones index.html
a4d934b cleaned up part1.html
199136a added more to part2.html
89660de Merge pull request #2 from ketch/master
a31d7ba Add branching figures.
5235863 Merge pull request #1 from ketch/master
653058f Add figures and slides on branching.
0088524 updates to part2 slides
345db36 link to github
ccbfccd update part1.html with some Github links, etc
0f0d6ff Changes to part1.html and addition of some figures
a3aa9a1 fix grammar
$ cle
```

version

after the first commit, when only one
s -a)

```
$ ls
LICENSE.md      README.md      slides/
$ ls slides
README.md      gitbranch7.png
branching1.png head_attached.png
branching2.png head_detached.png
branching3.png index.html
branching4.png part1.html
branching5.png part2.html
branching6.png remark-latest.min.js
git-stage.png
$
```

version

after the first commit, when only one
s -a)


```
$ ls
LICENSE.md
$ ls slides
README.md
branching1.png
branching2.png
branching3.png
branching4.png
branching5.png
branching6.png
git-stage.png
$
```

Reverting to a previous version

Try this:

```
git checkout 02eba60
```

This restores the repository to the state after the first commit, when only one file README.md existed. (confirm this via `ls -a`)

```
$ ls
LICENSE.md      README.md      slides/
$ ls slides
README.md      gitbranch7.png
branching1.png head_attached.png
branching2.png head_detached.png
branching3.png index.html
branching4.png part1.html
branching5.png part2.html
branching6.png remark-latest.min.js
git-stage.png
$ git checkout 02eba60
```

version

After the first commit, when only one
s -a)


```
branching4.png      part1.html
branching5.png      part2.html
branching6.png      remark-latest.min.js
git-stage.png
```

```
$ git checkout 02eba60
```

```
Note: checking out '02eba60'.
```

You are in 'detached HEAD' state. You can look around, make experimental changes and commit them, and you can discard any commits you make in this state without impacting any branches by performing another checkout.

If you want to create a new branch to retain commits you create, you may do so (now or later) by using `-b` with the checkout command again. Example:

```
git checkout -b <new-branch-name>
```

```
HEAD is now at 02eba60... Initial commit with minimal README
```

```
$
```

version

After the first commit, when only one
-a)

```
branching3.png      index.html
branching4.png      part1.html
branching5.png      part2.html
branching6.png      remark-latest.min.js
git-stage.png
```

```
$ git checkout 02eba60
```

```
Note: checking out '02eba60'.
```

You are in 'detached HEAD' state. You can look around, make experimental changes and commit them, and you can discard any commits you make in this state without impacting any branches by performing another checkout.

If you want to create a new branch to retain commits you create, you may do so (now or later) by using `-b` with the checkout command again. Example:

```
git checkout -b <new-branch-name>
```

```
HEAD is now at 02eba60... Initial commit with minimal README
```

```
$
```



```
LICENSE.md      README.md      slides/
$ ls slides
README.md      gitbranch7.png
branching1.png head_attached.png
branching2.png head_detached.png
branching3.png index.html
branching4.png part1.html
branching5.png part2.html
branching6.png remark-latest.min.js
git-stage.png
$ git checkout 02eba60
Note: checking out '02eba60'.
```

You are in 'detached HEAD' state. You can look around, make experimental changes and commit them, and you can discard any commits you make in this state without impacting any branches by performing another checkout.

If you want to create a new branch to retain commits you create, you may do so (now or later) by using `-b` with the checkout command again. Example:

```
git checkout -b <new-branch-name>
```

```
HEAD is now at 02eba60... Initial commit with minimal README
$ ls
```

one


```
README.md
branching1.png
branching2.png
branching3.png
branching4.png
branching5.png
branching6.png
git-stage.png
gitbranch7.png
head_attached.png
head_detached.png
index.html
part1.html
part2.html
remark-latest.min.js
```

```
$ git checkout 02eba60
```

```
Note: checking out '02eba60'.
```

You are in 'detached HEAD' state. You can look around, make experimental changes and commit them, and you can discard any commits you make in this state without impacting any branches by performing another checkout.

If you want to create a new branch to retain commits you create, you may do so (now or later) by using `-b` with the checkout command again. Example:

```
git checkout -b <new-branch-name>
```

```
HEAD is now at 02eba60... Initial commit with minimal README
```

```
$ ls
```

```
README.md
```

```
$ ls -a
```

one


```
branching2.png      head_detached.png
branching3.png      index.html
branching4.png      part1.html
branching5.png      part2.html
branching6.png      remark-latest.min.js
git-stage.png
```

```
$ git checkout 02eba60
```

```
Note: checking out '02eba60'.
```

You are in 'detached HEAD' state. You can look around, make experimental changes and commit them, and you can discard any commits you make in this state without impacting any branches by performing another checkout.

If you want to create a new branch to retain commits you create, you may do so (now or later) by using `-b` with the checkout command again. Example:

```
git checkout -b <new-branch-name>
```

```
HEAD is now at 02eba60... Initial commit with minimal README
```

```
$ ls
```

```
README.md
```

```
$ ls -a
```

```
./          ../          .git/       README.md
$
```

one

```
branching2.png
branching3.png
branching4.png
branching5.png
branching6.png
git-stage.png
$ git checkout 02
Note: checking ou
```

You are in 'detac
changes and commi
state without imp

If you want to cr
do so (now or lat

```
git checkout -b
```

```
HEAD is now at 02
$ ls
README.md
$ ls -a
./
$
```

Reverting to a previous version

Try this:

```
git checkout 02eba60
```

This restores the repository to the state after the first commit, when only one file README.md existed. (confirm this via `ls -a`)


```
branching2.png      head_detached.png
branching3.png      index.html
branching4.png      part1.html
branching5.png      part2.html
branching6.png      remark-latest.min.js
git-stage.png
```

```
$ git checkout 02eba60
```

```
Note: checking out '02eba60'.
```

You are in 'detached HEAD' state. You can look around, make experimental changes and commit them, and you can discard any commits you make in this state without impacting any branches by performing another checkout.

If you want to create a new branch to retain commits you create, you may do so (now or later) by using `-b` with the checkout command again. Example:

```
git checkout -b <new-branch-name>
```

```
HEAD is now at 02eba60... Initial commit with minimal README
```

```
$ ls
```

```
README.md
```

```
$ ls -a
```

```
./          ../          .git/       README.md
$
```

one

```
branching2.png
branching3.png
branching4.png
branching5.png
branching6.png
git-stage.png
$ git checkout 02
Note: checking out

You are in 'detached HEAD' state.
Changes and commits will not be tracked.

If you want to create a new branch,
do so (now or later) by running:

    git checkout -b <new-branch-name>

HEAD is now at 02
$ ls
README.md
$ ls -a
./
$
```

Reverting to a previous version

Try this:

```
git checkout 02eba60
```

This restores the repository to the state after the first commit, when only one file README.md existed. (confirm this via `ls -a`)

To get back to the most recent snapshot:

```
git checkout master
```

(We are on the master branch, more about branches later)

Try this and confirm that all files are restored.


```
branching2.png      head_detached.png
branching3.png      index.html
branching4.png      part1.html
branching5.png      part2.html
branching6.png      remark-latest.min.js
git-stage.png
```

```
$ git checkout 02eba60
```

```
Note: checking out '02eba60'.
```

You are in 'detached HEAD' state. You can look around, make experimental changes and commit them, and you can discard any commits you make in this state without impacting any branches by performing another checkout.

If you want to create a new branch to retain commits you create, you may do so (now or later) by using `-b` with the checkout command again. Example:

```
git checkout -b <new-branch-name>
```

```
HEAD is now at 02eba60... Initial commit with minimal README
```

```
$ ls
```

```
README.md
```

```
$ ls -a
```

```
./          ../          .git/       README.md
```

```
$ cle
```

```
$ ls -a
./          ../          .git/       README.md
$ git checkout master
Previous HEAD position was 02eba60... Initial commit with minimal README
Switched to branch 'master'
Your branch is up-to-date with 'origin/master'.
$ ls -a
./          .git/       README.md
../        LICENSE.md  slides/
$
```

one


```
$ ls -a
```

```
./
```

```
$ git checkout ma
```

```
Previous HEAD pos
```

```
Switched to branch
```

```
Your branch is up
```

```
$ ls -a
```

```
./
```

```
../
```

```
$
```

Reverting to a previous version

Try this:

```
git checkout 02eba60
```

This restores the repository to the state after the first commit, when only one file README.md existed. (confirm this via `ls -a`)

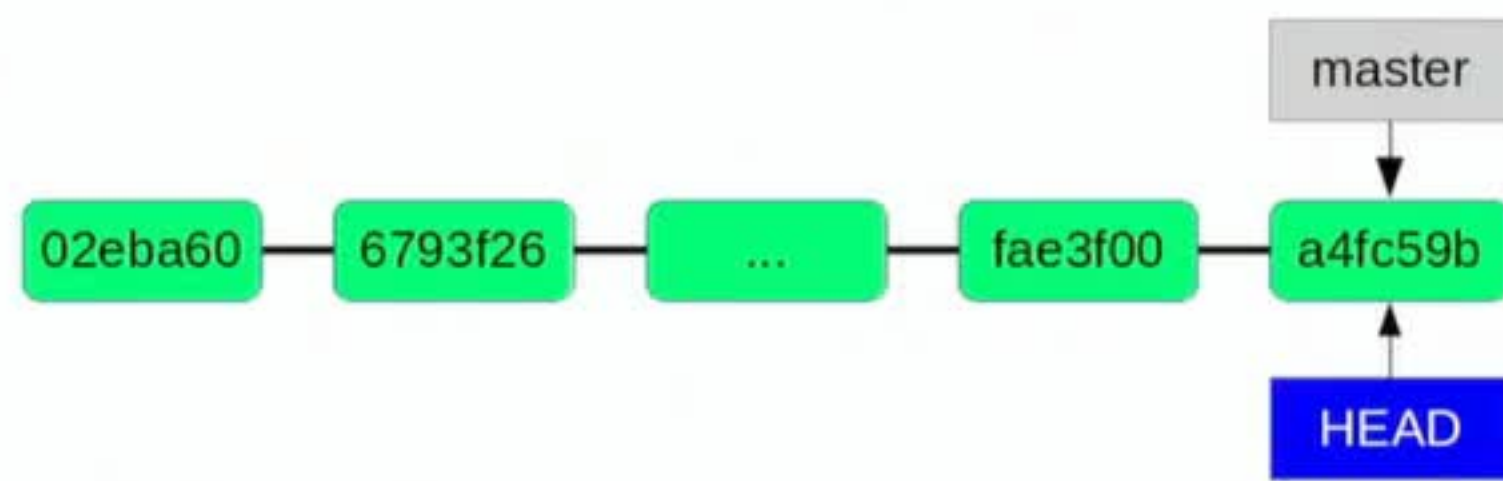
To get back to the most recent snapshot:

```
git checkout master
```

(We are on the master branch, more about branches later)

Try this and confirm that all files are restored.

```
$ ls -a
./
$ git checkout ma
Previous HEAD pos
Switched to branch
Your branch is up
$ ls -a
./
../
$
```



- HEAD refers to the commit that is currently checked out
- Usually at the tip of a branch
- Otherwise HEAD is "detached"


```
$ ls -a
```

```
./          ../          .git/       README.md
```

```
$ git checkout master
```

```
Previous HEAD position was 02eba60... Initial commit with minimal README
```

```
Switched to branch 'master'
```

```
Your branch is up-to-date with 'origin/master'.
```

```
$ ls -a
```

```
./          .git/       README.md  
../         LICENSE.md  slides/
```

```
$ git log HEAD~4
```

```
commit b85efb98bca7ea67ace08f59ddc72e691d2de4f8
```

```
Author: Randy LeVeque <rjl@uw.edu>
```

```
Date: Thu Feb 23 13:34:11 2017 -0800
```

```
added link to conference abstract
```

```
commit 95899b013ffb16e065e09a4e537eaf4df175736d
```

```
Merge: aafb298 6f1351d
```

```
Author: Randy LeVeque <rjl@uw.edu>
```

```
Date: Thu Feb 23 13:31:56 2017 -0800
```

```
Merge branch 'master' into gh-pages
```

```
add Git Cheat sheet links
```

```
* master:
```

```
add link to Git Cheat Sheet to both slide decks
```

```
Update README to thank Github Education
```

```
Update README to include links to slides on website
```

```
commit 6f1351ddebaee75320b88e2d02b14613232f6a93
```

```
Author: Randy LeVeque <rjl@uw.edu>
```

```
Date: Thu Feb 23 13:31:47 2017 -0800
```

```
$
```



```
commit b85efb98b0
```

```
Author: Randy LeV
```

```
Date: Thu Feb 2
```

```
added link to
```

```
commit 95899b0131
```

```
Merge: aafb298 6f
```

```
Author: Randy LeV
```

```
Date: Thu Feb 2
```

```
Merge branch
```

```
add Git Cheat
```

```
* master:
```

```
add link to
```

```
Update READ
```

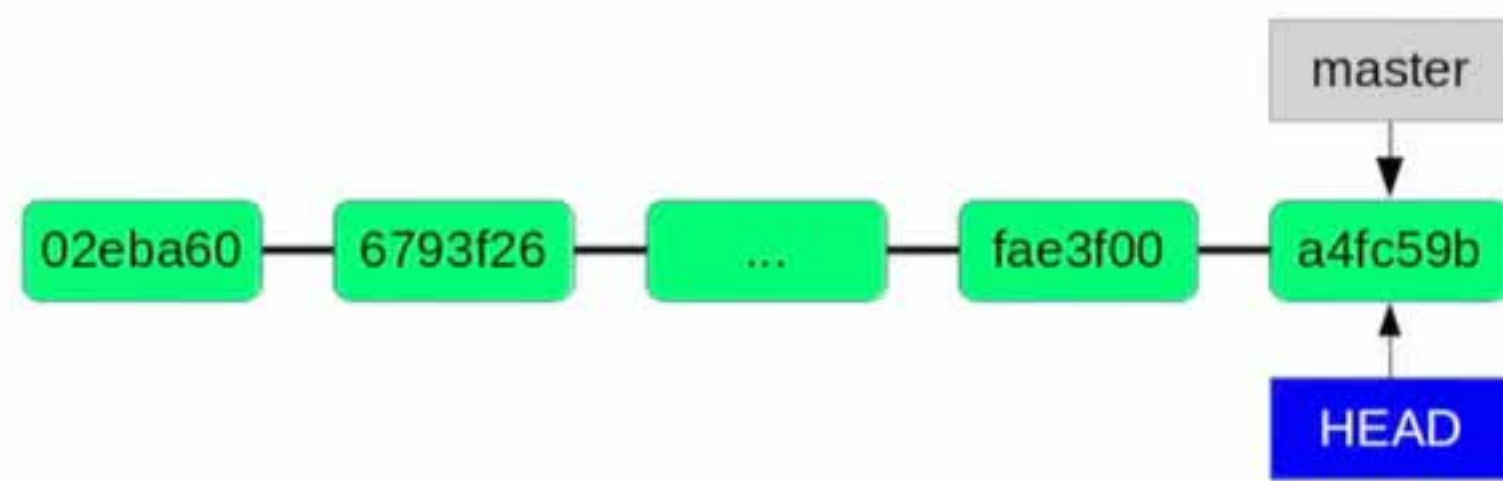
```
Update READ
```

```
commit 6f1351dde
```

```
Author: Randy LeV
```

```
Date: Thu Feb 2
```

```
$
```



- HEAD refers to the commit that is currently checked out
- Usually at the tip of a branch
- Otherwise HEAD is "detached"

```
commit b85efb98b
Author: Randy LeV
Date: Thu Feb 2
```

added link to

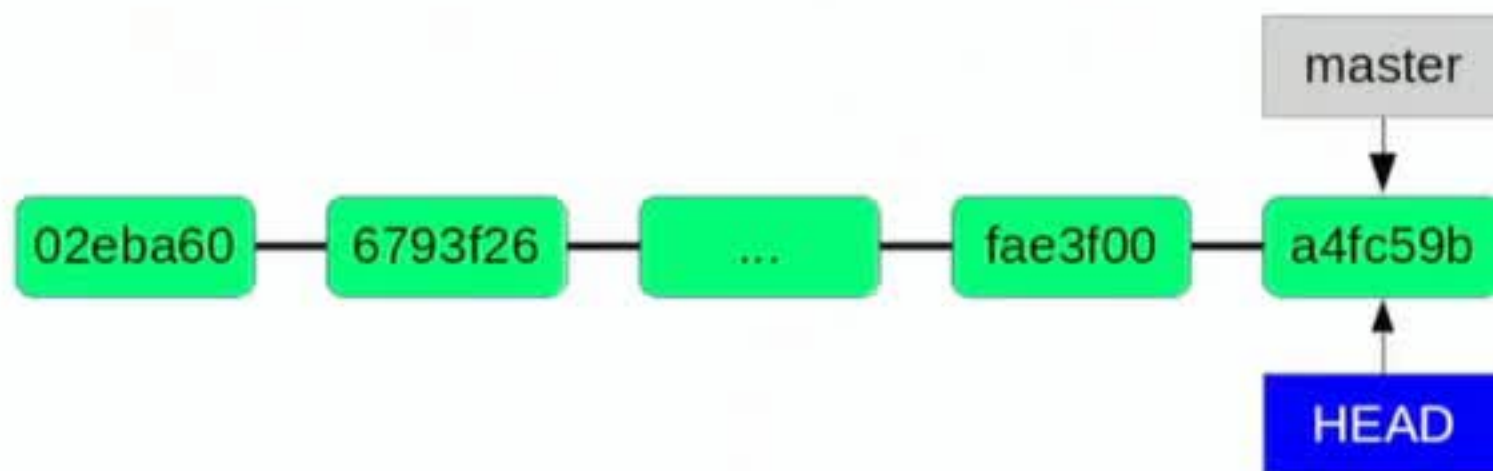
```
commit 95899b013f
Merge: aafb298 6f1
Author: Randy LeV
Date: Thu Feb 2
```

Merge branch

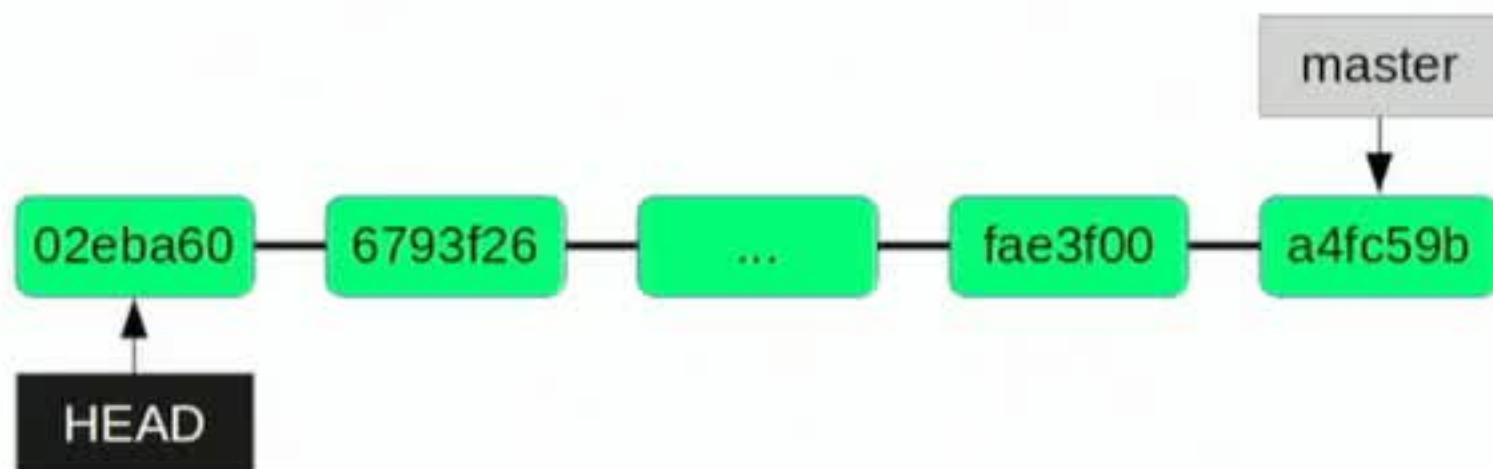
add Git Cheat

```
* master:
  add link to
  Update README
  Update README
```

```
commit 6f1351ddet
Author: Randy LeV
Date: Thu Feb 2
$
```



- HEAD refers to the commit that is currently checked out
- Usually at the tip of a branch
- Otherwise HEAD is "detached"



See: <https://git-scm.com/book/en/v1/Git-Branching-What-a-Branch-Is>


```
commit b85efb98bc
```

```
Author: Randy LeV
```

```
Date: Thu Feb 2
```

```
added link to
```

```
commit 95899b013f
```

```
Merge: aafb298 6f
```

```
Author: Randy LeV
```

```
Date: Thu Feb 2
```

```
Merge branch
```

```
add Git Cheat
```

```
* master:
```

```
add link to
```

```
Update READ
```

```
Update READ
```

```
commit 6f1351dde
```

```
Author: Randy LeV
```

```
Date: Thu Feb 2
```

```
$
```

Git diff

Compare files between two different snapshots, e.g.

```
git diff --stat 02eba60 master      # show which files changed
git diff 02eba60 master -- README.md # show diff in particular file
```

If you have made changes to a file but not committed the changes, then you can see the difference in file from the snapshot HEAD via

```
git diff README.md
```

Git status

Determine if there are changes in your working directory via

```
git status
```

`commit b85efb98bca7ea67ace08f59ddc72e691d2de4f8`

Author: Randy LeVeque <rjl@uw.edu>

Date: Thu Feb 23 13:34:11 2017 -0800

added link to conference abstract

`commit 95899b013ffb16e065e09a4e537eaf4df175736d`

Merge: aafb298 6f1351d

Author: Randy LeVeque <rjl@uw.edu>

Date: Thu Feb 23 13:31:56 2017 -0800

Merge branch 'master' into gh-pages

add Git Cheat sheet links

* master:

add link to Git Cheat Sheet to both slide decks

Update README to thank Github Education

Update README to include links to slides on website

`commit 6f1351ddebaee75320b88e2d02b14613232f6a93`

Author: Randy LeVeque <rjl@uw.edu>

Date: Thu Feb 23 13:31:47 2017 -0800

`$ git diff --stat`


```
commit b85efb98bc
```

```
Author: Randy LeV
```

```
Date: Thu Feb 2
```

```
added link to
```

```
commit 95899b0131
```

```
Merge: aafb298 6f
```

```
Author: Randy LeV
```

```
Date: Thu Feb 2
```

```
Merge branch
```

```
add Git Cheat
```

```
* master:
```

```
add link to
```

```
Update READ
```

```
Update READ
```

```
commit 6f1351dde
```

```
Author: Randy LeV
```

```
Date: Thu Feb 2
```

```
$ git diff --stat
```

Git diff

Compare files between two different snapshots, e.g.

```
git diff --stat 02eba60 master      # show which files changed
git diff 02eba60 master -- README.md # show diff in particular file
```

If you have made changes to a file but not committed the changes, then you can see the difference in file from the snapshot HEAD via

```
git diff README.md
```

Git status

Determine if there are changes in your working directory via

```
git status
```

`commit b85efb98bca7ea67ace08f59ddc72e691d2de4f8`

Author: Randy LeVeque <rjl@uw.edu>

Date: Thu Feb 23 13:34:11 2017 -0800

added link to conference abstract

`commit 95899b013ffb16e065e09a4e537eaf4df175736d`

Merge: aafb298 6f1351d

Author: Randy LeVeque <rjl@uw.edu>

Date: Thu Feb 23 13:31:56 2017 -0800

Merge branch 'master' into gh-pages

add Git Cheat sheet links

* master:

add link to Git Cheat Sheet to both slide decks

Update README to thank Github Education

Update README to include links to slides on website

`commit 6f1351ddebaee75320b88e2d02b14613232f6a93`

Author: Randy LeVeque <rjl@uw.edu>

Date: Thu Feb 23 13:31:47 2017 -0800

`$ git diff --stat 02eba60 master`


```
commit 6f1351ddebaee75320b88e2d02b14613232f6a93
```

```
Author: Randy LeVeque <rjl@uw.edu>
```

```
Date: Thu Feb 23 13:31:47 2017 -0800
```

```
$ git diff --stat 02eba60 master
```

LICENSE.md		5	+	
README.md		47	++++-	
slides/README.md		8	+	
slides/branching1.png		Bin	0	-> 3507 bytes
slides/branching2.png		Bin	0	-> 4219 bytes
slides/branching3.png		Bin	0	-> 4050 bytes
slides/branching4.png		Bin	0	-> 5812 bytes
slides/branching5.png		Bin	0	-> 5742 bytes
slides/branching6.png		Bin	0	-> 7229 bytes
slides/git-stage.png		Bin	0	-> 7305 bytes
slides/gitbranch7.png		Bin	0	-> 94147 bytes
slides/head_attached.png		Bin	0	-> 15402 bytes
slides/head_detached.png		Bin	0	-> 15795 bytes
slides/index.html		12	++	
slides/part1.html		355	+++++	
slides/part2.html		410	+++++	
slides/remark-latest.min.js		14	++	

17 files changed, 848 insertions(+), 3 deletions(-)

```
$ clear
```

```
$ git d
slides
1 file
$ git d
$
```

part1.html - /var/folders/_s/dx0xgftn3_x04rdx0_w5nq7w0000gn/T

part1.html - /Users/rj/git/uwescience/git-tutorials-siamcse2017/slides

<pre> git status ... # .blue[Staging files for commit] [Figure from https://git-scm.com/about/staging-area] # .blue[Create a new repository] Now let's try making a new repository. From here we will follow: - http://swcarpentry.github.io/git-novice/03-create/ ??? Switch to working through in a terminal window with a new repo - Illustrate 'git init, git add, git commit' - Illustrate 'git status, git diff' - Explain difference between untracked, clean, unstaged, staged - Illustrate checking out a single file - Reverting this file with a new commit <!-- ## End of slides ## --> </textarea> <!-- ## this only works when connected to internet: <script src="https://gnab.github.io/remark/downloads/remark-latest.min.js" </script> --> <!-- ## The lines below can be used to view without internet connection, provided you have the file remark-latest.min.js --> <script src="remark-latest.min.js" </script> <!-- ## Create the slide show: --> <script> var slideshow = remark.create(); </pre>	<pre> git status ... # .blue[Staging files for commit] [Figure from https://git-scm.com/about/staging-area] # .blue[Create a new repository] Now let's try making a new repository. From here we will follow: - http://swcarpentry.github.io/git-novice/03-create/ ??? Switch to working through in a terminal window with a new repo - Illustrate 'git init, git add, git commit' - Illustrate 'git status, git diff' - Explain difference between untracked, clean, unstaged, staged - Illustrate checking out a single file - Reverting this file with a new commit <!-- ## End of slides ## --> </textarea> <!-- ## this only works when connected to internet: <script src="https://gnab.github.io/remark/downloads/remark-latest.min.js" </script> --> <!-- ## The lines below can be used to view without internet connection, provided you have the file remark-latest.min.js --> <script src="remark-latest.min.js" </script> <!-- ## Create the slide show: --> <script> var slideshow = remark.create(); </pre>
---	---

status: 2 differences

Actions

ou


```
$ git diff --stat HEAD~1
slides/part1.html | 8 ++++++----
1 file changed, 5 insertions(+), 3 deletions(-)
$ git diff HEAD~1 -- slides/part1.html
$
```

ou

```
$ git diff --stat  
slides/part1.htm  
1 file changed,  
$ git diff HEAD~1  
$
```

Git diff

Compare files between two different snapshots, e.g.

```
git diff --stat 02eba60 master      # show which files changed  
git diff 02eba60 master -- README.md # show diff in particular file
```

If you have made changes to a file but not committed the changes, then you can see the difference in file from the snapshot HEAD via

```
git diff README.md
```

Git status

Determine if there are changes in your working directory via

```
git status
```



```
$ git diff --stat HEAD~1
slides/part1.html | 8 +++++-----
1 file changed, 5 insertions(+), 3 deletions(-)
$ git diff HEAD~1 -- slides/part1.html
```

```
1
2 ## git-tutorials-siamcse2017
3
4 ### 2017 SIAM Conference on
5 Computational Science and
6 Engineering
7
8 Under development, to be used in
9 tutorials at the 2017 SIAM CSE
10 Conference:
11
12 - [Version Control with Git -
13 Parts I and
14 II](http://meetings.siam.org/sess/d
15 sp_programsess.cfm?SESSIONCODE=6149
16 1)
17
18 If you clone the repository, you
19 should be able to open the file
20 `slides/part1.html` for example in
21 any browser.
```

git-tutorials-siamcse2017

2017 SIAM Conference on Computational Science and Engineering

Under development, to be used in tutorials at the 2017 SIAM CSE Conference:

- Version Control with Git - Parts I and II

If you clone the repository, you should be able to open the file `slides/part1.html` for example in any browser.

Or you can view directly from these links:

- Part 1
- Part 2

Before the tutorial:

Please do the following in preparation for the tutorial:

- Make sure you have Git installed on your laptop, e.g. by attempting to clone this repository via:

```
git clone https://github.com/uwescience/git-tutorials-siamcse2017.git
```

If you don't have Git installed, see for example [Installing Git](#) from the [Git Book](#) or the [Software Carpentry](#) instructions below.

If you cloned the repository earlier and want to update with recent changes:

```
cd git-tutorials-siamcse2017
git pull
```

ou

```
$ git diff --stat HEAD~1
slides/part1.html | 8 ++++++----
1 file changed, 5 insertions(+), 3 deletions(-)
$ git diff HEAD~1 -- slides/part1.html
$ git status
```

ou


```
$ git diff --stat HEAD~1
slides/part1.html | 8 ++++++----
1 file changed, 5 insertions(+), 3 deletions(-)
$ git diff HEAD~1 -- slides/part1.html
$ git status
On branch master
Your branch is up-to-date with 'origin/master'.
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

        modified:   README.md

no changes added to commit (use "git add" and/or "git commit -a")
$
```

```
$ git diff --stat  
slides/part1.htm  
1 file changed,  
$ git diff HEAD~1  
$ git status  
On branch master  
Your branch is up  
Changes not stage  
  (use "git add <  
  (use "git check  
  
modified:  
  
no changes added  
$
```

Git diff

Compare files between two different snapshots, e.g.

```
git diff --stat 02eba60 master      # show which files changed  
git diff 02eba60 master -- README.md  # show diff in particular file
```

If you have made changes to a file but not committed the changes, then you can see the difference in file from the snapshot HEAD via

```
git diff README.md
```

Git status

Determine if there are changes in your working directory via

```
git status
```



```
$ git diff --stat HEAD~1
slides/part1.html | 8 ++++++----
1 file changed, 5 insertions(+), 3 deletions(-)
$ git diff HEAD~1 -- slides/part1.html
$ git status
On branch master
Your branch is up-to-date with 'origin/master'.
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

        modified:   README.md

no changes added to commit (use "git add" and/or "git commit -a")
$ git diff
```

vpLXob_README.md - /var/folders/_s/dx0xgftn3_x04rdx0_w5nq7w0000gn/T

README.md - /Users/rjl/git/uwescience/git-tutorials-siamcse2017

<pre>## git-tutorials-siamcse2017 ### 2017 SIAM Conference on Computational Science and Engineering Under development, to be used in tutorials at the 2017 SIAM CSE Conference: - [Version Control with Git - Parts I and II](http://meetings.siam.org/session/dsp_programsess.cfm?SESSID=) If you clone the repository, you should be able to open the file 'slides/part1.html' for example in any browser. Or you can view directly from these links: - [Part 1](https://uwescience.github.io/git-tutorials-siamcse2017/slides/part1.html) - [Part 2](https://uwescience.github.io/git-tutorials-siamcse2017/slides/part2.html) ## Before the tutorial: Please do the following in preparation for the tutorial: - Make sure you have Git installed on your laptop, e.g. by attempting to clone this repository via: ... git clone https://github.com/uwescience/git-tutorials-siamcse2017.git ... If you don't have Git installed, see for example [Installing Git](https://git-scm.com/book/en/v2/Getting-Started-Installing-Git) If you cloned the repository earlier and want to update with recent changes: ... cd git-tutorials-siamcse2017 git pull ... - Know how to use basic command line instructions in a Unix shell, such as 'cd', 'ls', etc. See for example: http://swcarpentry.github.io/shell-novice/ - Have an editor that you know how to use for modifying files. (e.g. nano, vim, emacs, etc.) - For Part 2, you should also have a Github account. Create a free account at https://github.com/ ## Tips: - See http://installation.software-carpentry.org/ for the software recommended for [Software Carpentry] - If you have a MacBook, you will need to install Xcode in order for command line tools to work. - The file 'slides/part1.html' in this repository also contains some hints. These tutorials are supported in part by [Github Education](https://education.github.com/), who kindly</pre>	<pre>## git-tutorials-siamcse2017 # Something new ### 2017 SIAM Conference on Computational Science and Engineering Under development, to be used in tutorials at the 2017 SIAM CSE Conference: - [Version Control with Git - Parts I and II](http://meetings.siam.org/session/dsp_programsess.cfm?SESSID=) If you clone the repository, you should be able to open the file 'slides/part1.html' for example in any browser. Or you can view directly from these links: - [Part 1](https://uwescience.github.io/git-tutorials-siamcse2017/slides/part1.html) - [Part 2](https://uwescience.github.io/git-tutorials-siamcse2017/slides/part2.html) ## Before the tutorial: Please do the following in preparation for the tutorial: - Make sure you have Git installed on your laptop, e.g. by attempting to clone this repository via: ... git clone https://github.com/uwescience/git-tutorials-siamcse2017.git ... If you don't have Git installed, see for example [Installing Git](https://git-scm.com/book/en/v2/Getting-Started-Installing-Git) If you cloned the repository earlier and want to update with recent changes: ... cd git-tutorials-siamcse2017 git pull ... - Know how to use basic command line instructions in a Unix shell, such as 'cd', 'ls', etc. See for example: http://swcarpentry.github.io/shell-novice/ - Have an editor that you know how to use for modifying files. (e.g. nano, vim, emacs, etc.) - For Part 2, you should also have a Github account. Create a free account at https://github.com/ ## Tips: - See http://installation.software-carpentry.org/ for the software recommended for [Software Carpentry] - If you have a MacBook, you will need to install Xcode in order for command line tools to work. - The file 'slides/part1.html' in this repository also contains some hints. These tutorials are supported in part by [Github Education](https://education.github.com/), who kindly</pre>
--	--

status: 1 difference

Actions

```
$ git d
slides
1 file
$ git d
$ git s
On bran
Your br
Changes
(use
(use
```

```
no chan
$ git d
$
```

ou

any bro


```
$ git diff --stat HEAD~1
slides/part1.html | 8 ++++++----
1 file changed, 5 insertions(+), 3 deletions(-)
$ git diff HEAD~1 -- slides/part1.html
$ git status
On branch master
Your branch is up-to-date with 'origin/master'.
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

        modified:   README.md

no changes added to commit (use "git add" and/or "git commit -a")
$ git diff
$ git checkout -- README.md
$ git status
On branch master
Your branch is up-to-date with 'origin/master'.
nothing to commit, working tree clean
$
```

```
$ git diff --stat HEAD~1
slides/part1.html | 8 +++++--
```

git-tutorials-siamcse2017

.git

branching1.png
branching2.png
branching3.png
branching4.png
branching5.png
branching6.png
git-stage.png
gitbranch7.png
head_attached.png
head_detached.png
index.html
part1.html
part2.html
README.md
remark-latest.min.js
LICENSE.md
README.md

README.md

1
2
3
4
5
6
7
8
9
10
11
12
13

```
## git-tutorials-siamcse2017

### 2017 SIAM Conference on
Computational Science and
Engineering

Under development, to be used in
tutorials at the 2017 SIAM CSE
Conference:

- [Version Control with Git -
Parts I and
II](http://meetings.siam.org/sess/d
sp_programsess.cfm?SESSIONCODE=6149
1)

If you clone the repository, you
should be able to open the file
`slides/part1.html` for example in
any browser.

Or you can view directly from these
```

README.md Preview

git-tutorials-siamcse2017

2017 SIAM Conference on Computational Science and
Engineering

Under development, to be used in tutorials at the 2017 SIAM CSE Conference:

• Version Control with Git - Parts I and II

If you clone the repository, you should be able to open the file `slides/part1.html` for
example in any browser.

Or you can view directly from these links:

• Part 1
• Part 2

Before the tutorial:

Please do the following in preparation for the tutorial:

• Make sure you have Git installed on your laptop, e.g. by attempting to clone this
repository via:

```
git clone https://github.com/uwescience/git-tutorials-siamcse2017.git
```

If you don't have Git installed, see for example [Installing Git](#) from the [Git Book](#) or the
Software Carpentry instructions below.

If you cloned the repository earlier and want to update with recent changes:

```
cd git-tutorials-siamcse2017
git pull
```

• Know how to use basic command line instructions in a Unix shell, such as `cd`, `ls`, etc.
See for example: <http://swcarpentry.github.io/shell-novice/>

• Have an editor that you know how to use for modifying files. (e.g. nano, vim, emacs)

ory)

ou


```
$ git diff --stat HEAD~1
slides/part1.html | 8 ++++++----
1 file changed, 5 insertions(+), 3 deletions(-)
$ git diff HEAD~1 -- slides/part1.html
$ git status
On branch master
Your branch is up-to-date with 'origin/master'.
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

        modified:   README.md

no changes added to commit (use "git add" and/or "git commit -a")
$ git diff
$ git checkout -- README.md
$ git status
On branch master
Your branch is up-to-date with 'origin/master'.
nothing to commit, working tree clean
$
```

```
$ git diff --stat  
slides/part1.htm  
1 file changed,  
$ git diff HEAD~1  
$ git status  
On branch master  
Your branch is up  
Changes not stage  
(use "git add <  
(use "git check
```

modified:

```
no changes added  
$ git diff  
$ git checkout --  
$ git status  
On branch master  
Your branch is up  
nothing to commit  
$
```

Git diff

Compare files between two different snapshots, e.g.

```
git diff --stat 02eba60 master      # show which files changed  
git diff 02eba60 master -- README.md # show diff in particular file
```

If you have made changes to a file but not committed the changes, then you can see the difference in file from the snapshot HEAD via

```
git diff README.md
```

Git status

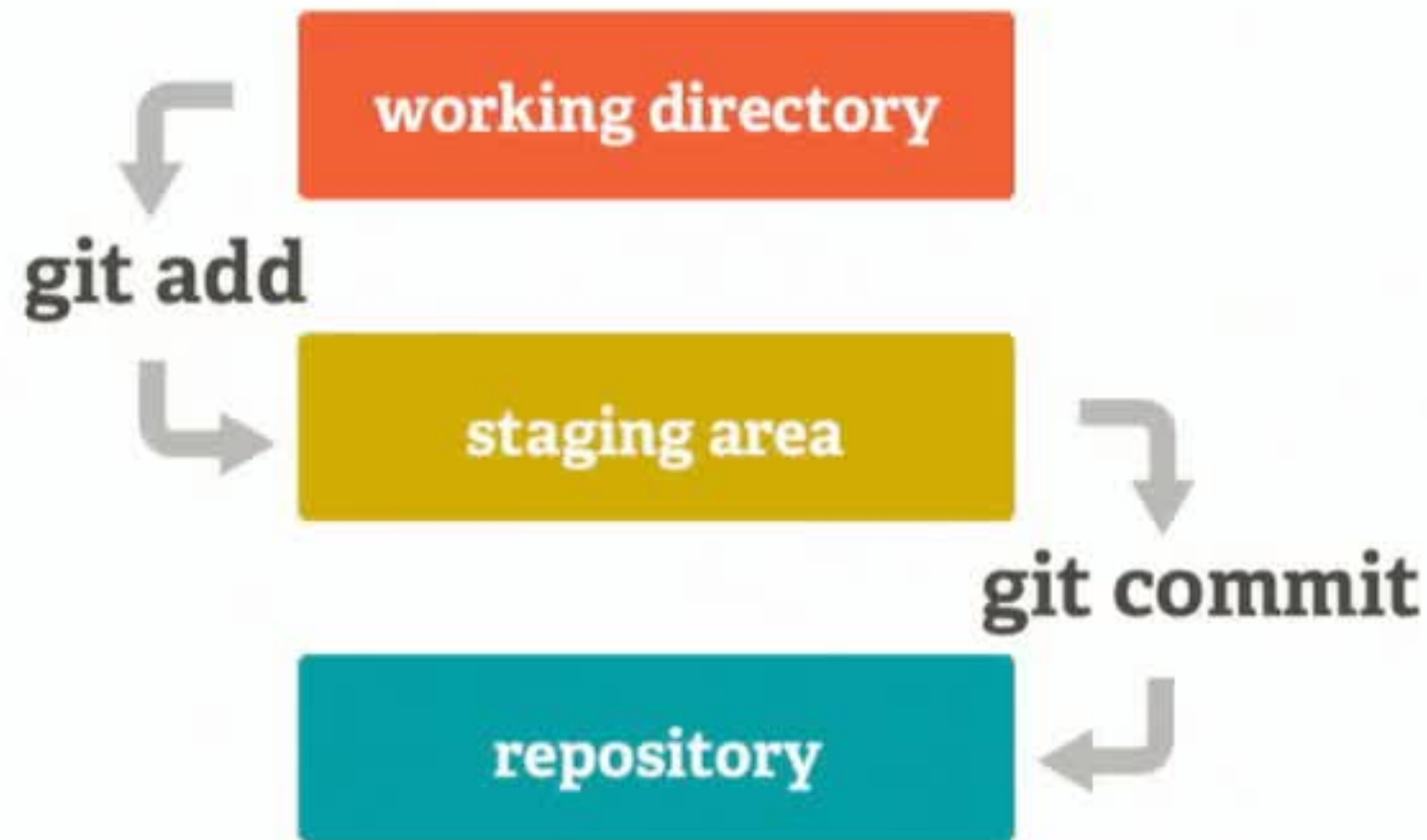
Determine if there are changes in your working directory via

```
git status
```



```
$ git diff --stat  
slides/part1.htm  
1 file changed,  
$ git diff HEAD~1  
$ git status  
On branch master  
Your branch is up  
Changes not stage  
  (use "git add <  
  (use "git check  
  
modified:  
  
no changes added  
$ git diff  
$ git checkout --  
$ git status  
On branch master  
Your branch is up  
nothing to commit  
$
```

Staging files for commit



[Figure from <https://git-scm.com/about/staging-area>]

```
47 - If you have a MacBook, you will
  • need to install Xcode in order for
  • command line tools to work.
48 - The file 'slides/part1.html' in
  • this repository also contains some
  • hints.
```

```

49
50
51 These tutorials are supported in
  • part by [Github
  • Education](https://education.github.
  • com/), who kindly provided some
  • materials such as [Git cheat
  • sheets](https://education.github.com
  • /git-cheat-sheet-education.pdf)
  • that will be distributed during the
  • tutorial. See their webpage for
  • other resources, or if you are
  • interested in getting such
  • materials or private repositories
  • for a class you are teaching.

```

52

53

git-tutorials-siamcse2017

2017 SIAM Conference on Computational Science and Engineering

Under development, to be used in tutorials at the 2017 SIAM CSE Conference:

- Version Control with Git - Parts I and II

If you clone the repository, you should be able to open the file `slides/part1.html` for example in any browser.

Or you can view directly from these links:

- Part 1
- Part 2

Before the tutorial:

Please do the following in preparation for the tutorial:

- Make sure you have Git installed on your laptop, e.g. by attempting to clone this repository via:

```
git clone https://github.com/wescience/git-tutorials-siamcse2017.git
```

If you don't have Git installed, see for example [Installing Git from the Git Book](#) or the [Software Carpentry instructions](#) below.

If you cloned the repository earlier and want to update with recent changes:

```
cd git-tutorials-siamcse2017
git pull
```

- Know how to use basic command line instructions in a Unix shell, such as `cd`, `ls`, etc. See for example: <http://swcarpentry.github.io/shell-novice/>


```
$ git diff --stat HEAD~1
slides/part1.html | 8 ++++++----
1 file changed, 5 insertions(+), 3 deletions(-)
$ git diff HEAD~1 -- slides/part1.html
$ git status
On branch master
Your branch is up-to-date with 'origin/master'.
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

        modified:   README.md

no changes added to commit (use "git add" and/or "git commit -a")
$ git diff
$ git checkout -- README.md
$ git status
On branch master
Your branch is up-to-date with 'origin/master'.
nothing to commit, working tree clean
$ git sta
```


Changes not staged for commit:
(use "git add <file>..." to update what will be committed)
(use "git checkout -- <file>..." to discard changes in working directory)

modified: README.md

no changes added to commit (use "git add" and/or "git commit -a")

```
$ git diff
```

```
$ git checkout -- README.md
```

```
$ git status
```

On branch master

Your branch is up-to-date with 'origin/master'.

nothing to commit, working tree clean

```
$ git status
```

On branch master

Your branch is up-to-date with 'origin/master'.

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git checkout -- <file>..." to discard changes in working directory)

modified: README.md

no changes added to commit (use "git add" and/or "git commit -a")

```
$
```



```
$ git status
On branch master
Your branch is up-to-date with 'origin/master'.
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)
```

```
    modified:   README.md
```

```
no changes added to commit (use "git add" and/or "git commit -a")
```

```
$ git add README.md
```

```
$ git status
```

```
On branch master
```

```
Your branch is up-to-date with 'origin/master'.
```

```
Changes to be committed:
```

```
  (use "git reset HEAD <file>..." to unstage)
```

```
    modified:   README.md
```

```
$ touch file1.txt
```

```
$ ls
```

```
LICENSE.md      README.md      file1.txt      slides/
```

```
$ cle
```

```
$ git status
On branch master
Your branch is up-to-date with 'origin/master'.
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

        modified:   README.md

Untracked files:
  (use "git add <file>..." to include in what will be committed)

        file1.txt

$ git add file1.txt
$ git status
On branch master
Your branch is up-to-date with 'origin/master'.
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

        modified:   README.md
        new file:   file1.txt

$
```



```
$ git status
On branch master
```

git-tutorials-siamcse2017

git

slides

branching1.png
branching2.png
branching3.png
branching4.png
branching5.png
branching6.png
git-stage.png
gitbranch7.png
head_attached.png
head_detached.png
index.html
part1.html
part2.html
README.md
remark-latest.min.js
file1.txt
LICENSE.md
README.md

README.md

• need to install Xcode in order for command line tools to work.
• - The file `'slides/part1.html'` in this repository also contains some hints.
•
•

48
49
50
51
52
53
54

These tutorials are supported in part by [Github Education](https://education.github.com/), who kindly provided some materials such as [Git cheat sheets](https://education.github.com/git-cheat-sheet-education.pdf) that will be distributed during the tutorial. See their webpage for other resources, or if you are interested in getting such materials or private repositories for a class you are teaching.

README.md Preview

git-tutorials-siamcse2017

2017 SIAM Conference on Computational Science and Engineering
Under development, to be used in tutorials at the 2017 SIAM CSE Conference:

- Version Control with Git - Parts I and II

If you clone the repository, you should be able to open the file `slides/part1.html` for example in any browser.
Or you can view directly from these links:

- Part 1
- Part 2

Before the tutorial:
Please do the following in preparation for the tutorial:

- Make sure you have Git installed on your laptop, e.g. by attempting to clone this repository via:

```
git clone https://github.com/uwescience/git-tutorials-siamcse2017.git
```

If you don't have Git installed, see for example [Installing Git](#) from the [Git Book](#) or the [Software Carpentry](#) instructions below.
If you cloned the repository earlier and want to update with recent changes:

```
cd git-tutorials-siamcse2017
git pull
```
- Know how to use basic command line instructions in a Unix shell, such as `cd`, `ls`, etc. See for example: <http://swcarpentry.github.io/shell-novice/>
- Have an editor that you know how to use for modifying files. (e.g. nano, vim, emacs)

```
$ git status
On branch master
Your branch is up-to-date with 'origin/master'.
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

        modified:   README.md

Untracked files:
  (use "git add <file>..." to include in what will be committed)
```

```
        file1.txt
```

```
$ git add file1.txt
$ git status
On branch master
Your branch is up-to-date with 'origin/master'.
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)
```

```
        modified:   README.md
        new file:   file1.txt
```

```
$ c
```



```
$ git status
```

```
On branch master
```

```
Your branch is up-to-date with 'origin/master'.
```

```
Changes to be committed:
```

```
(use "git reset HEAD <file>..." to unstage)
```

```
    modified:   README.md
```

```
    new file:   file1.txt
```

```
Changes not staged for commit:
```

```
(use "git add <file>..." to update what will be committed)
```

```
(use "git checkout -- <file>..." to discard changes in working directory)
```

```
    modified:   README.md
```

```
$ git add -u .
```

```
$ git stat
```

Your branch is up-to-date with 'origin/master'.

Changes to be committed:

(use "git reset HEAD <file>..." to unstage)

modified: README.md

new file: file1.txt

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git checkout -- <file>..." to discard changes in working directory)

modified: README.md

```
$ git add -u .
```

```
$ git status
```

On branch master

Your branch is up-to-date with 'origin/master'.

Changes to be committed:

(use "git reset HEAD <file>..." to unstage)

modified: README.md

new file: file1.txt

```
$
```


Your branch is up
Changes to be com
(use "git reset

modified:
new file:

Changes not stage
(use "git add <
(use "git check

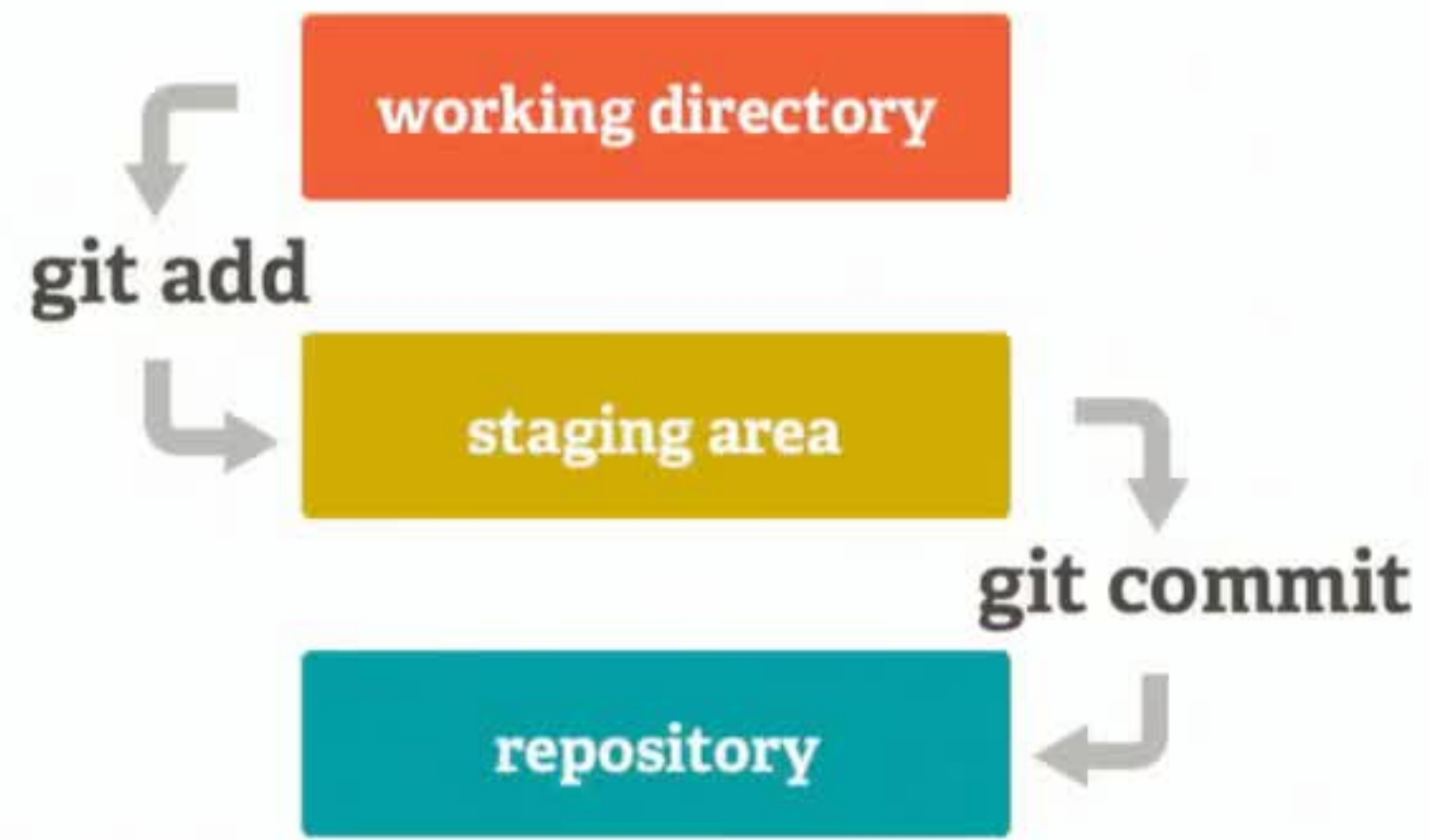
modified:

```
$ git add -u  
$ git status  
On branch master  
Your branch is up  
Changes to be com  
(use "git reset
```

modified:
new file:

\$

Staging files for commit



[Figure from <https://git-scm.com/about/staging-area>]

Your branch is up-to-date with 'origin/master'.

Changes to be committed:

(use "git reset HEAD <file>..." to unstage)

modified: README.md

new file: file1.txt

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git checkout -- <file>..." to discard changes in working directory)

modified: README.md

```
$ git add -u .
```

```
$ git status
```

On branch master

Your branch is up-to-date with 'origin/master'.

Changes to be committed:

(use "git reset HEAD <file>..." to unstage)

modified: README.md

new file: file1.txt

```
$ git reset HEAD file1.txt
```


Changes to be committed:

(use "git reset HEAD <file>..." to unstage)

```
modified:  README.md
new file:  file1.txt
```

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git checkout -- <file>..." to discard changes in working directory)

```
modified:  README.md
```

```
$ git add -u .
```

```
$ git status
```

On branch master

Your branch is up-to-date with 'origin/master'.

Changes to be committed:

(use "git reset HEAD <file>..." to unstage)

```
modified:  README.md
new file:  file1.txt
```

```
$ git reset HEAD file1.txt
```

```
$ git sta
```

```
$ git status
On branch master
Your branch is up-to-date with 'origin/master'.
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

    modified:   README.md
    new file:   file1.txt

$ git reset HEAD file1.txt
$ git status
On branch master
Your branch is up-to-date with 'origin/master'.
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

    modified:   README.md

Untracked files:
  (use "git add <file>..." to include in what will be committed)

    file1.txt

$ git commit -m "added blank lines in demo"
```


Changes to be committed:

(use "git reset HEAD <file>..." to unstage)

```
modified:  README.md
new file:  file1.txt
```

```
$ git reset HEAD file1.txt
```

```
$ git status
```

On branch master

Your branch is up-to-date with 'origin/master'.

Changes to be committed:

(use "git reset HEAD <file>..." to unstage)

```
modified:  README.md
```

Untracked files:

(use "git add <file>..." to include in what will be committed)

```
file1.txt
```

```
$ git commit -m "added blank lines in demo"
```

```
[master a98f979] added blank lines in demo
```

```
1 file changed, 2 insertions(+)
```

```
$ git log
```

commit a98f979b44792335b2bb4972bcad9530a8809ebe

Author: Randy LeVeque <rjl@uw.edu>

Date: Mon Feb 27 10:59:11 2017 -0500

added blank lines in demo

commit 4874e7bfe50c4651ef1862e4e709532d42288f05

Author: Randy LeVeque <rjl@uw.edu>

Date: Mon Feb 27 08:47:17 2017 -0500

demo instructions

commit 716246866a35d1a486ade1dc393d01761449d150

Author: Randy LeVeque <rjl@uw.edu>

Date: Sun Feb 26 17:29:14 2017 -0500

added new figures for detached head

commit a4fc59bdbbc39f37f740691076cb892dc7d4a42d0

Author: Randy LeVeque <rjl@uw.edu>

Date: Sun Feb 26 09:19:04 2017 -0500

added links to gitk, atom

:


```
commit a98f979b44
Author: Randy LeV
Date: Mon Feb 2

added blank 1

commit 4874e7bfe5
Author: Randy LeV
Date: Mon Feb 2

demo instruct

commit 716246866a
Author: Randy LeV
Date: Sun Feb 2

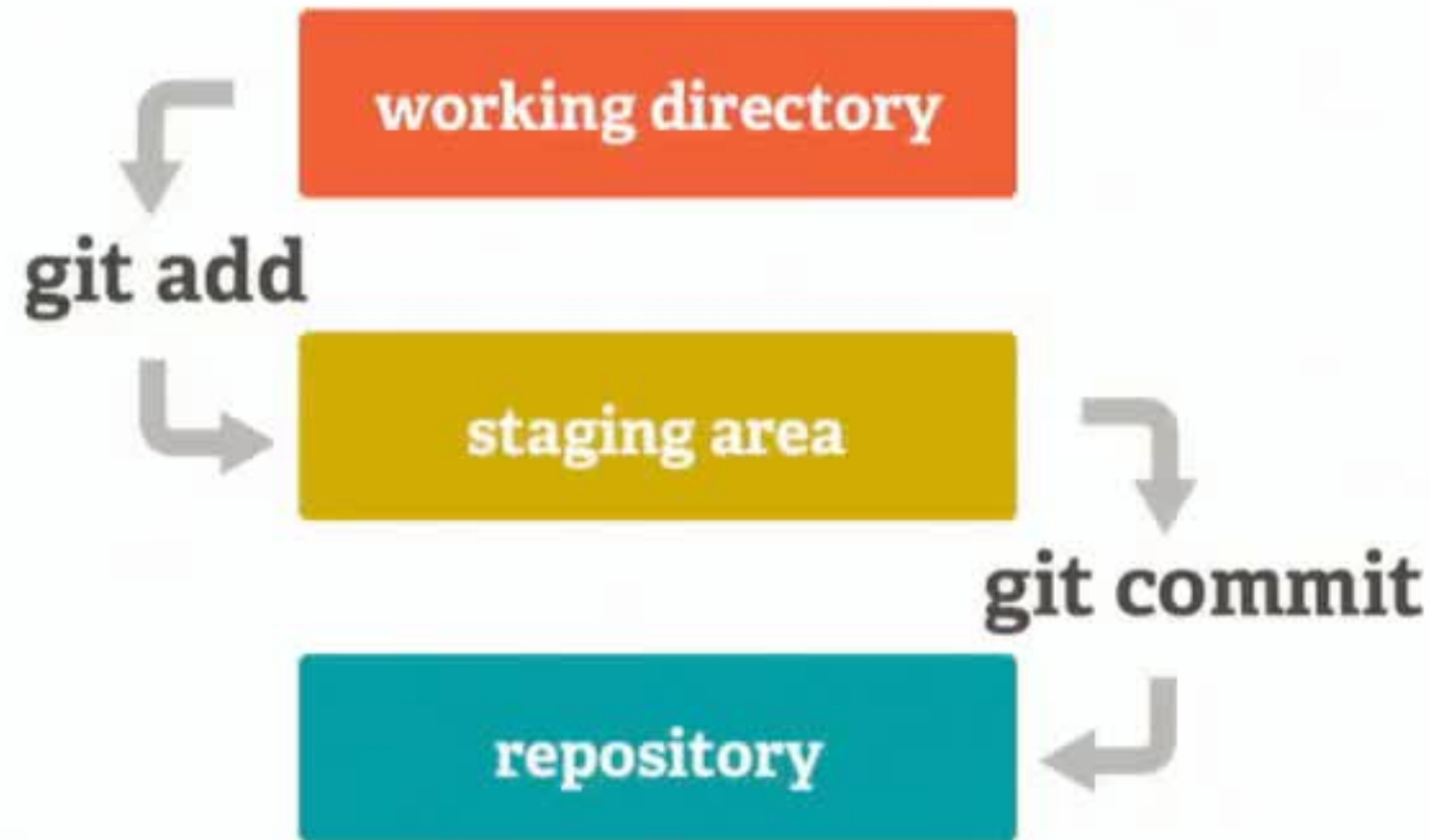
added new fig

commit a4fc59bdbc
Author: Randy LeV
Date: Sun Feb 2

added links t

:
```

Staging files for commit



[Figure from <https://git-scm.com/about/staging-area>]

```
commit a98f979b44
Author: Randy LeV
Date: Mon Feb 2

    added blank 1

commit 4874e7bfe5
Author: Randy LeV
Date: Mon Feb 2

    demo instruct

commit 716246866a
Author: Randy LeV
Date: Sun Feb 2

    added new fig

commit a4fc59bdbc
Author: Randy LeV
Date: Sun Feb 2

    added links t
:
53
54
```

Create a new repository

Now let's try making a new repository.

From here we will do a live demo, please follow along

For some instructions to do this on your own, see:

- <http://swcarpentry.github.io/git-novice/03-create/>


```
commit a98f979b44
Author: Randy LeV
Date: Mon Feb 2

added blank 1

commit 4874e7bfe5
Author: Randy LeV
Date: Mon Feb 2

demo instruct

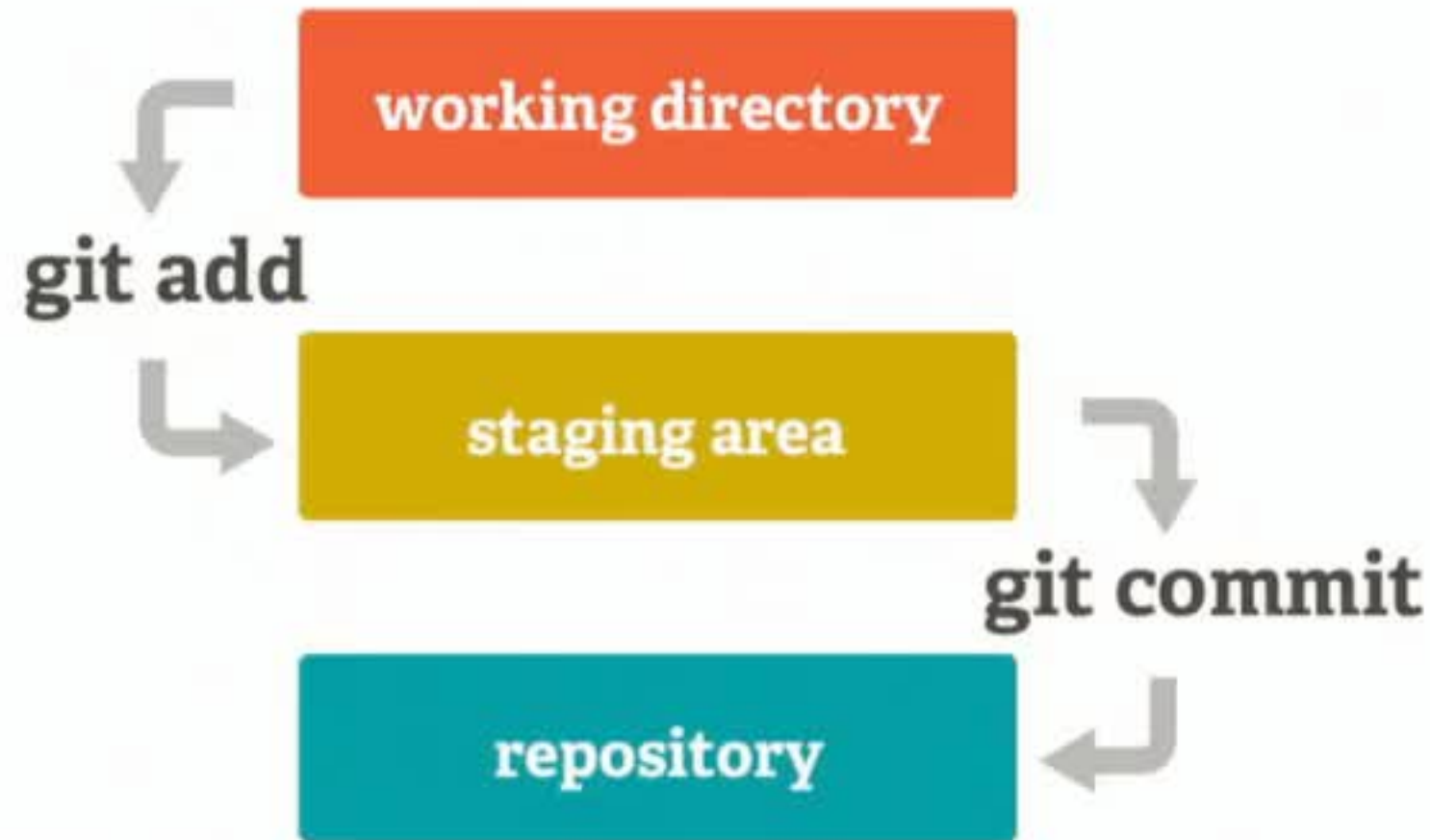
commit 716246866a
Author: Randy LeV
Date: Sun Feb 2

added new fig

commit a4fc59bdbc
Author: Randy LeV
Date: Sun Feb 2

added links t
:
54
```

Staging files for commit



[Figure from <https://git-scm.com/about/staging-area>]

```
commit a98f979b44
```

```
Author: Randy LeV
```

```
Date: Mon Feb 2
```

```
added blank 1
```

```
commit 4874e7bfe5
```

```
Author: Randy LeV
```

```
Date: Mon Feb 2
```

```
demo instruct
```

```
commit 716246866a
```

```
Author: Randy LeV
```

```
Date: Sun Feb 2
```

```
added new fig
```

```
commit a4fc59bdbb
```

```
Author: Randy LeV
```

```
Date: Sun Feb 2
```

```
added links t
```

```
:
```

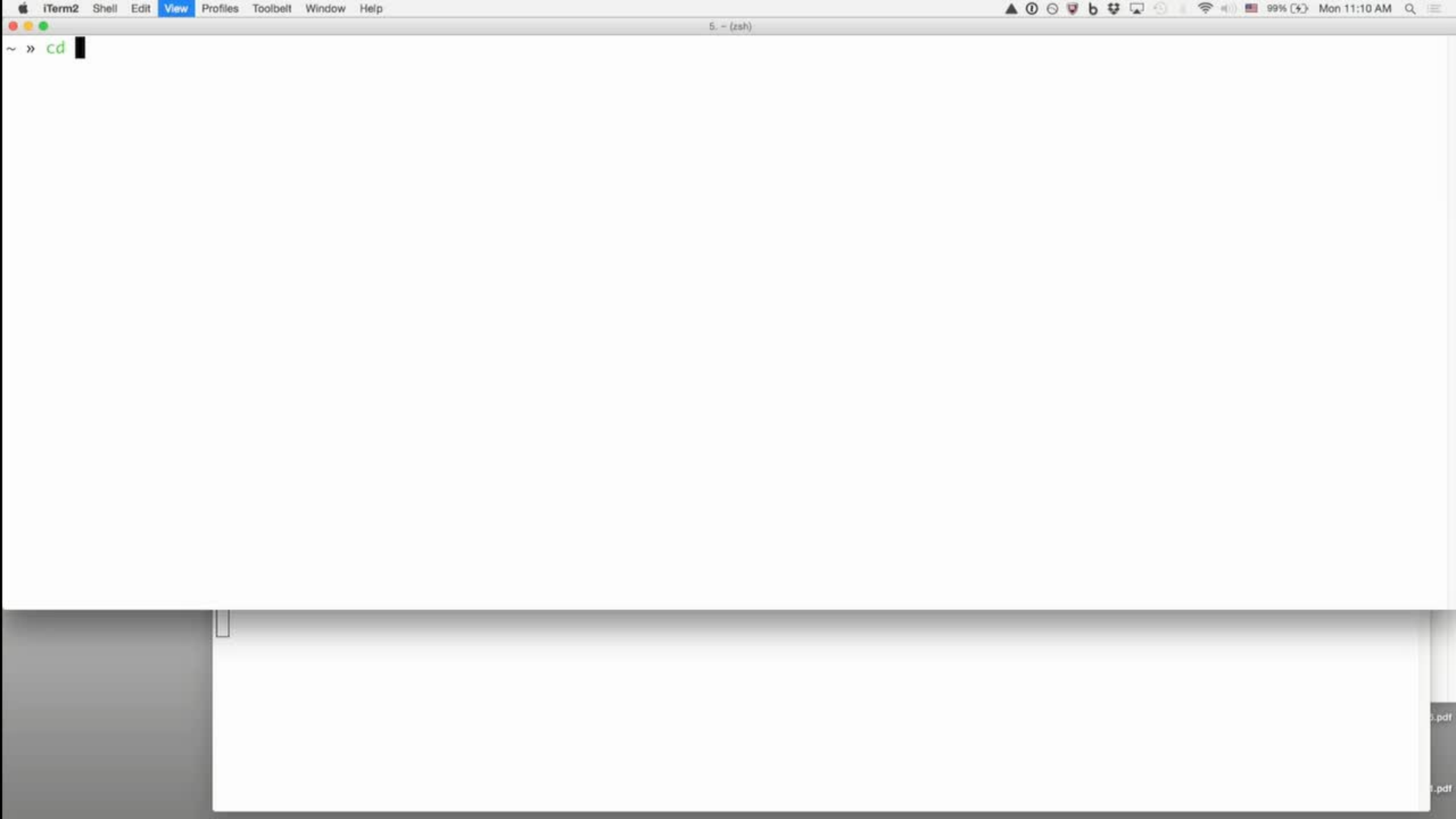
Create a new repository

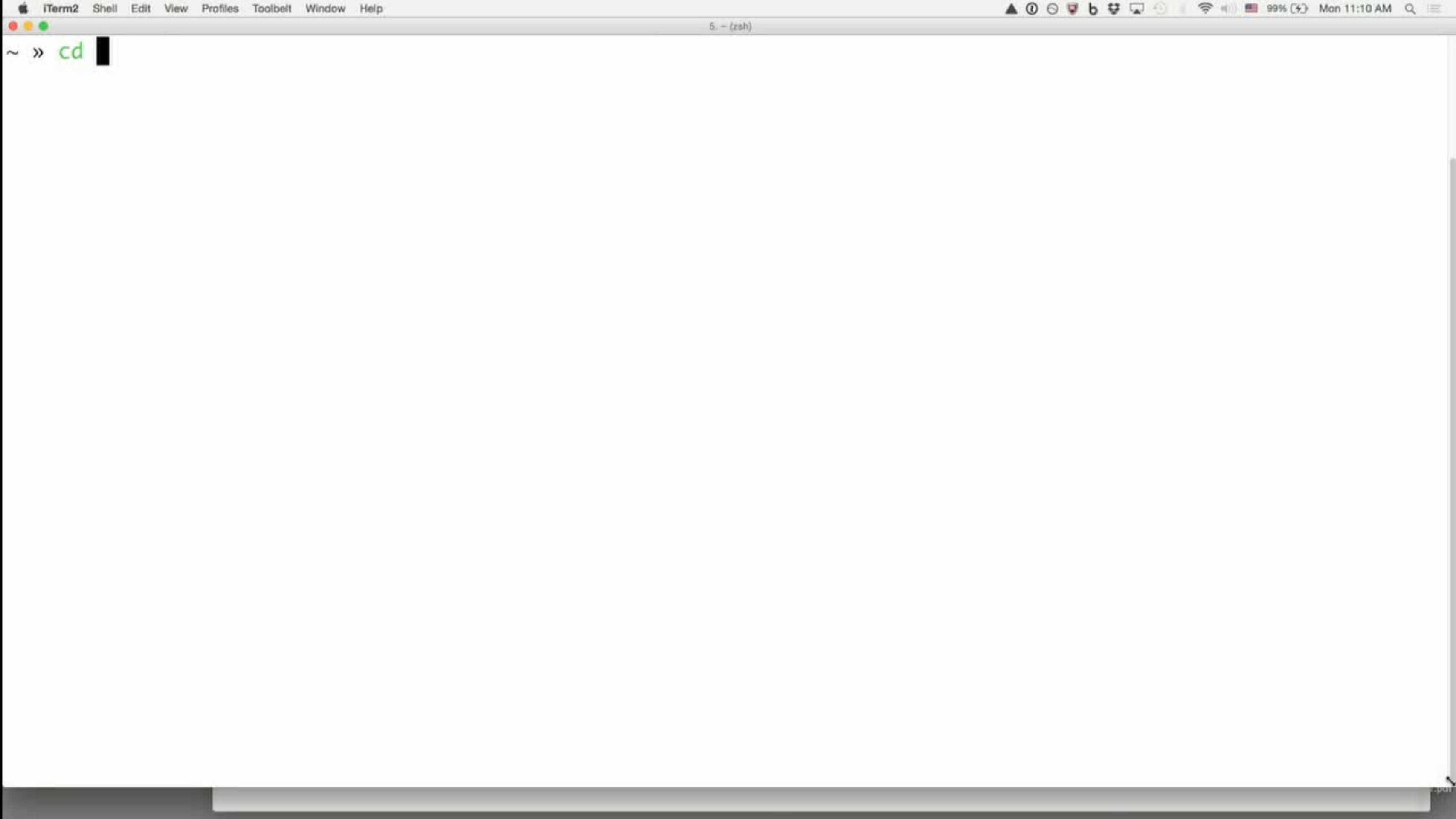
Now let's try making a new repository.

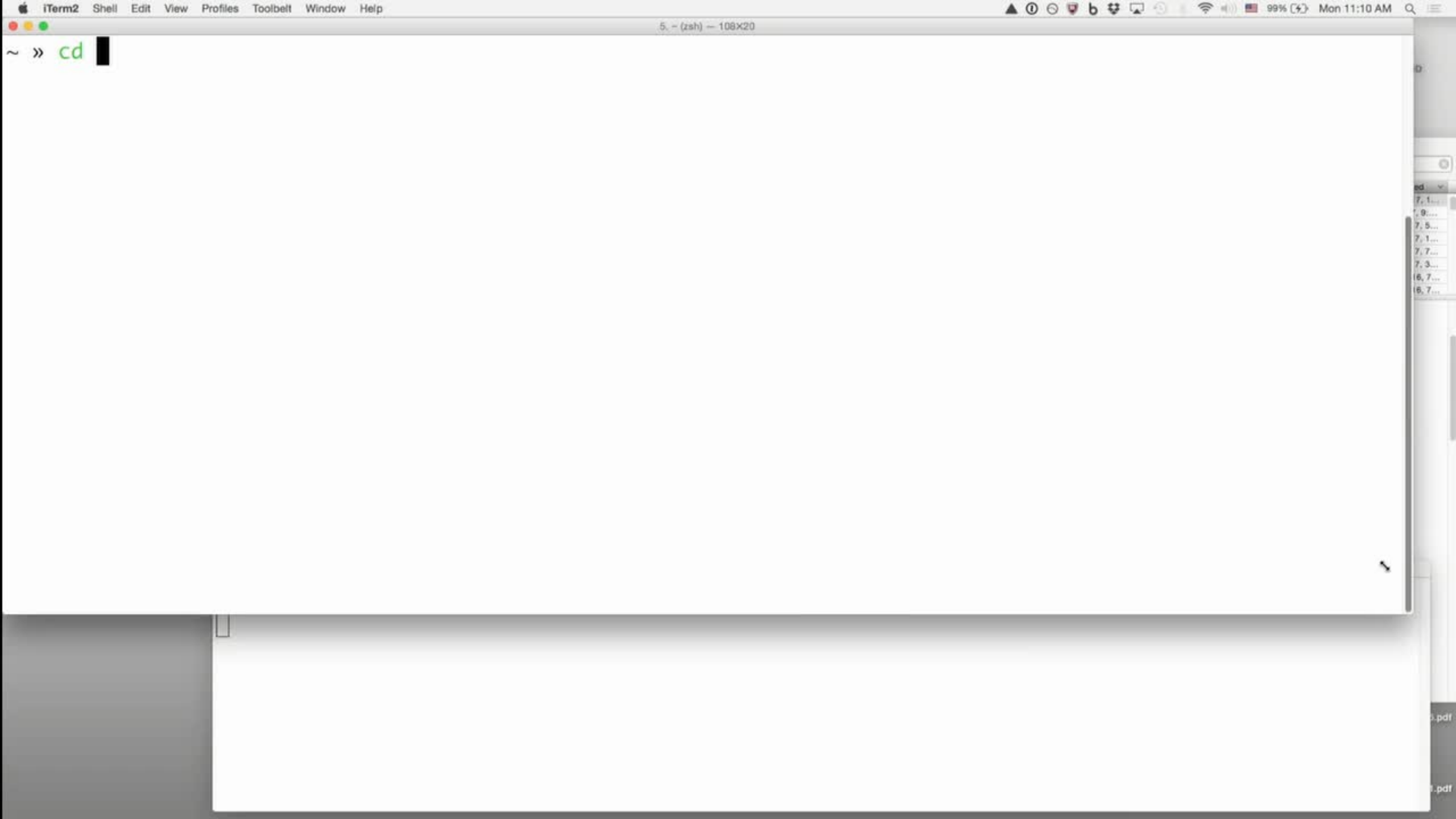
From here we will do a live demo, please follow along

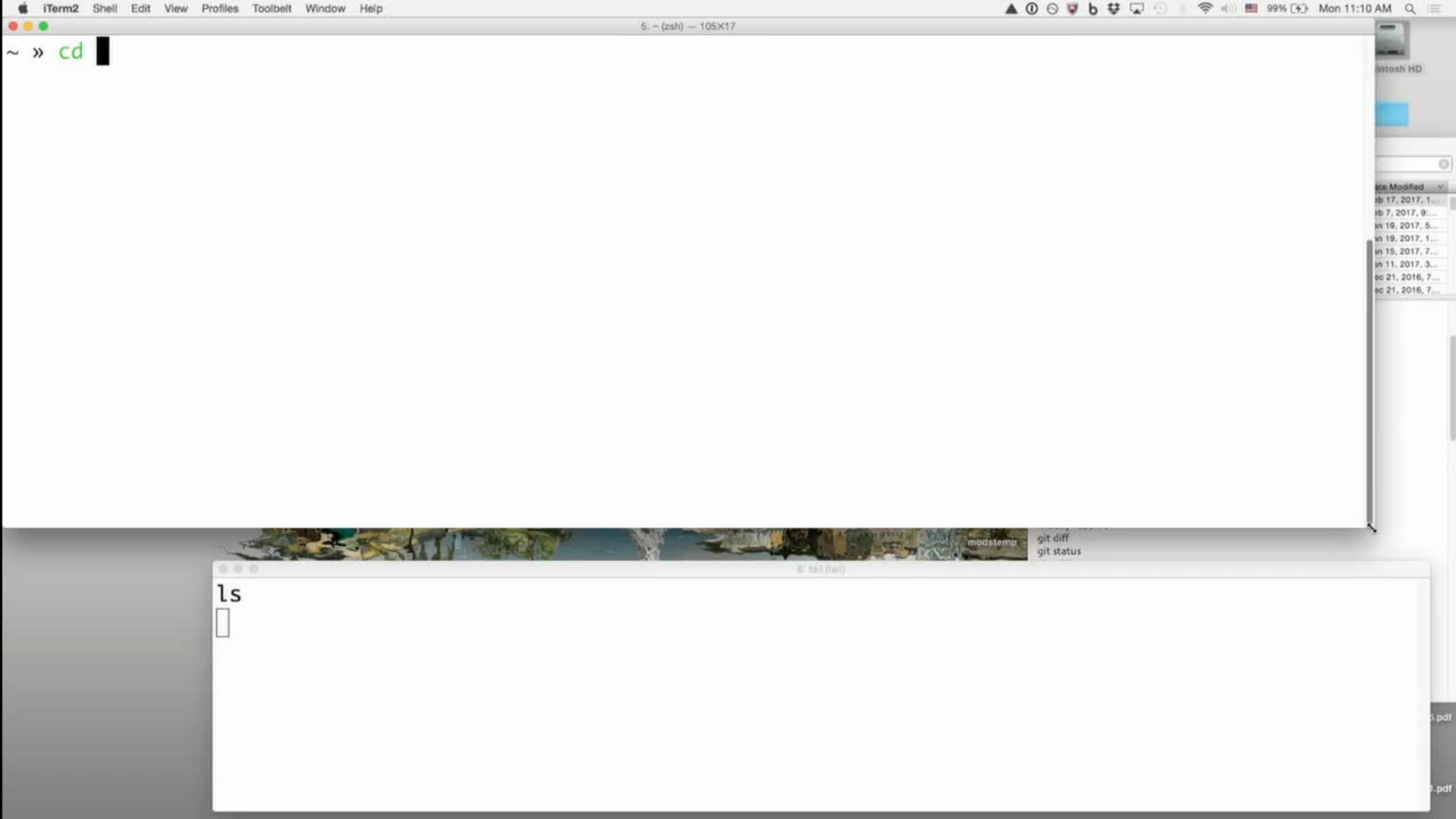
For some instructions to do this on your own, see:

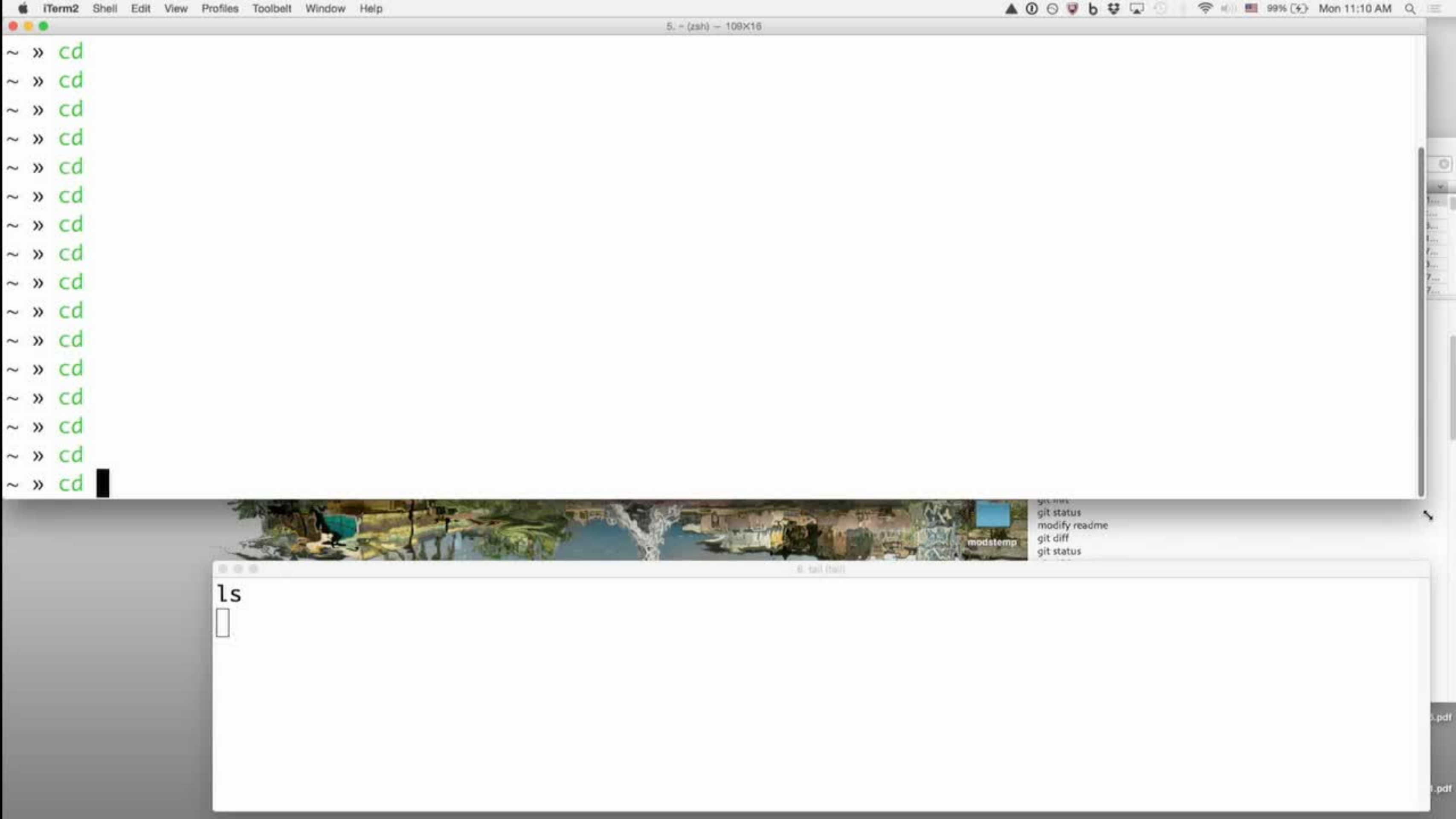
- <http://swcarpentry.github.io/git-novice/03-create/>

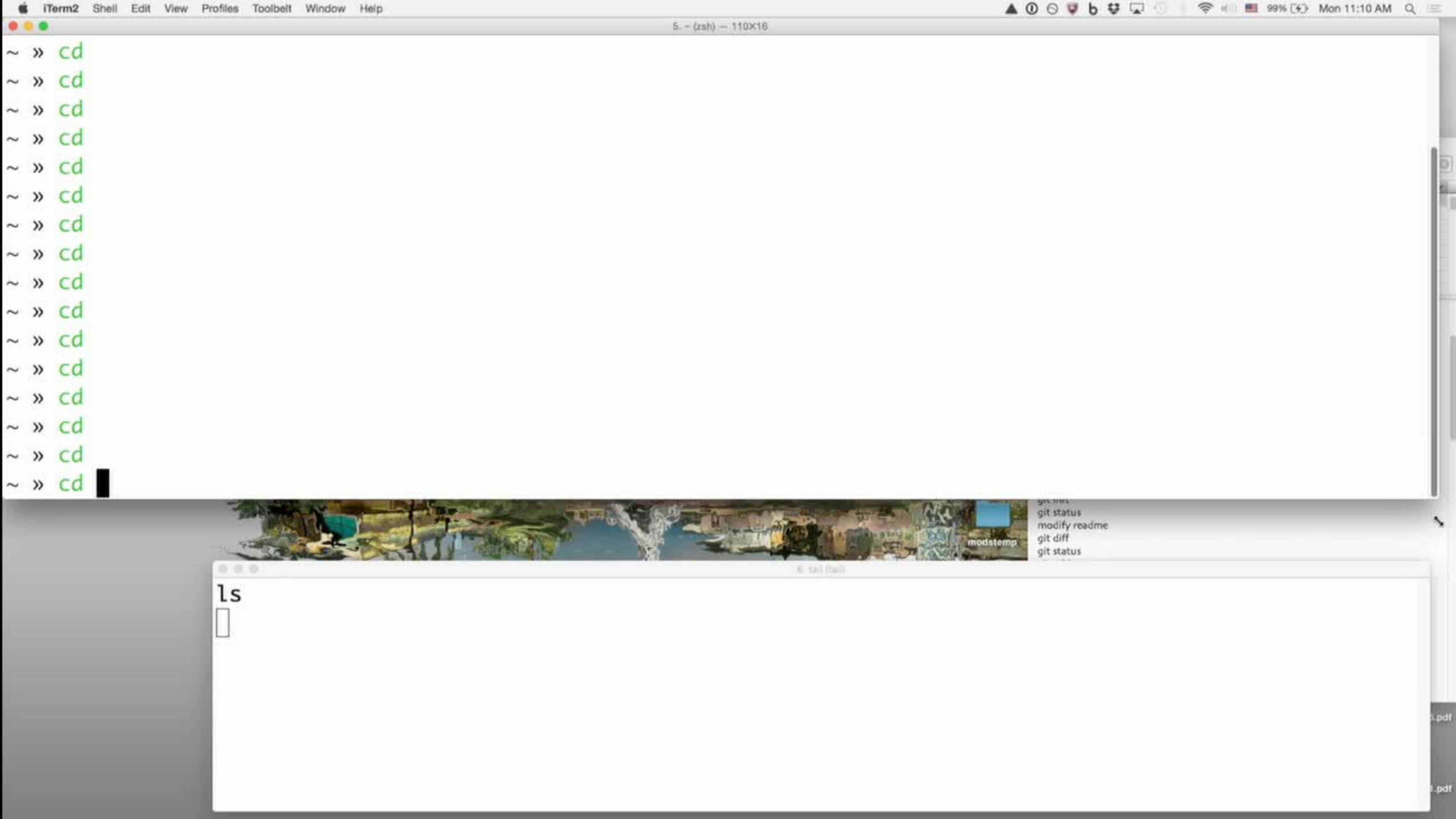


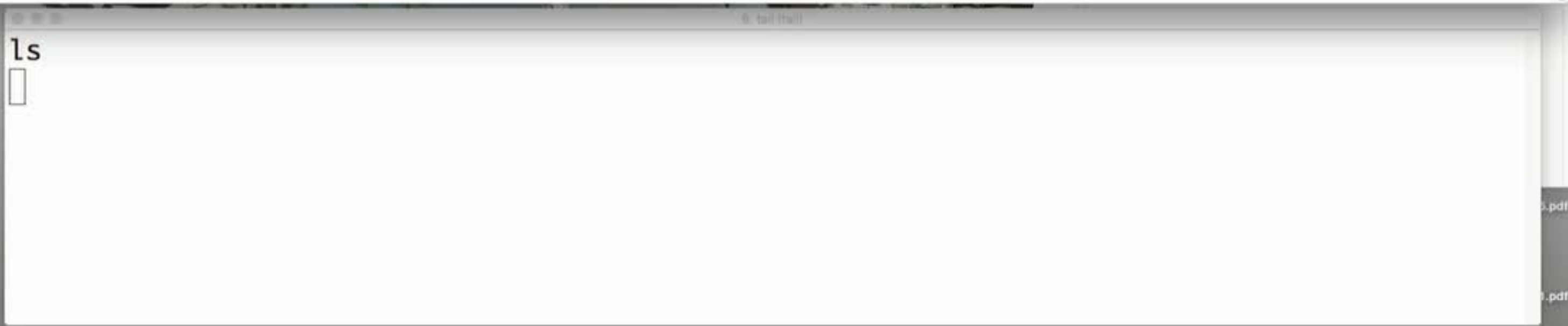
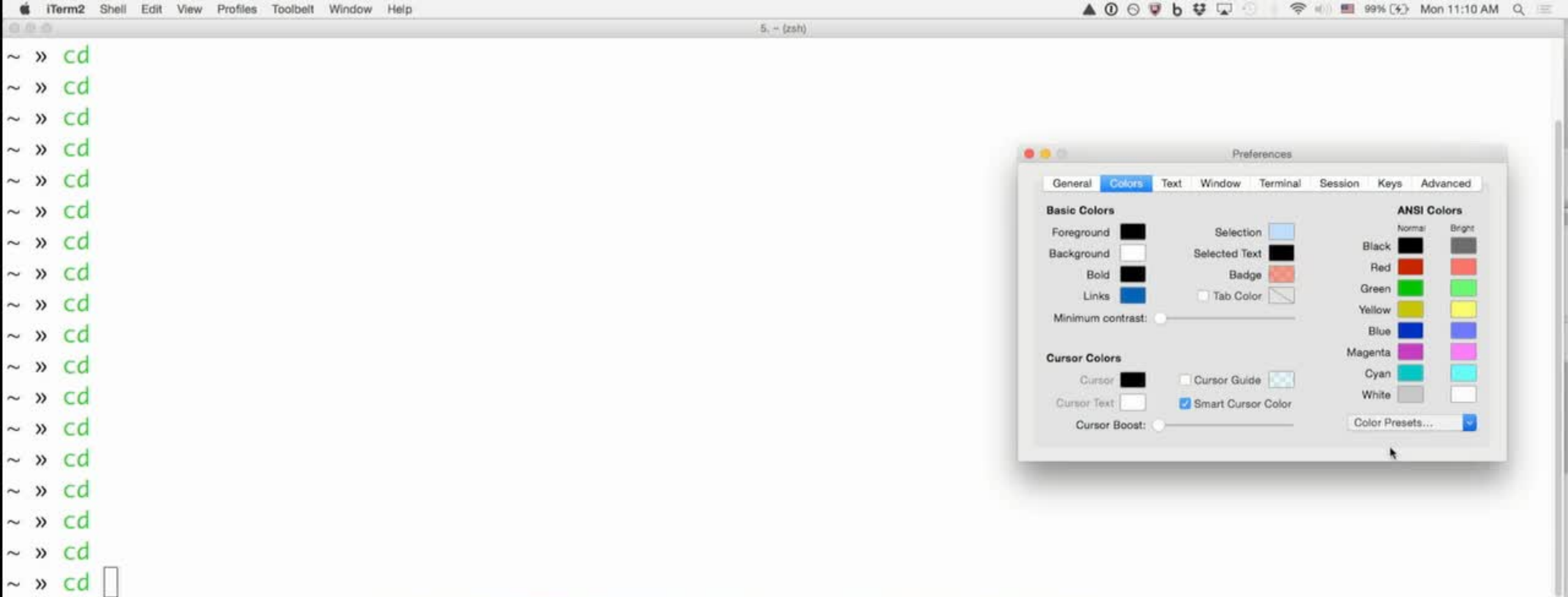


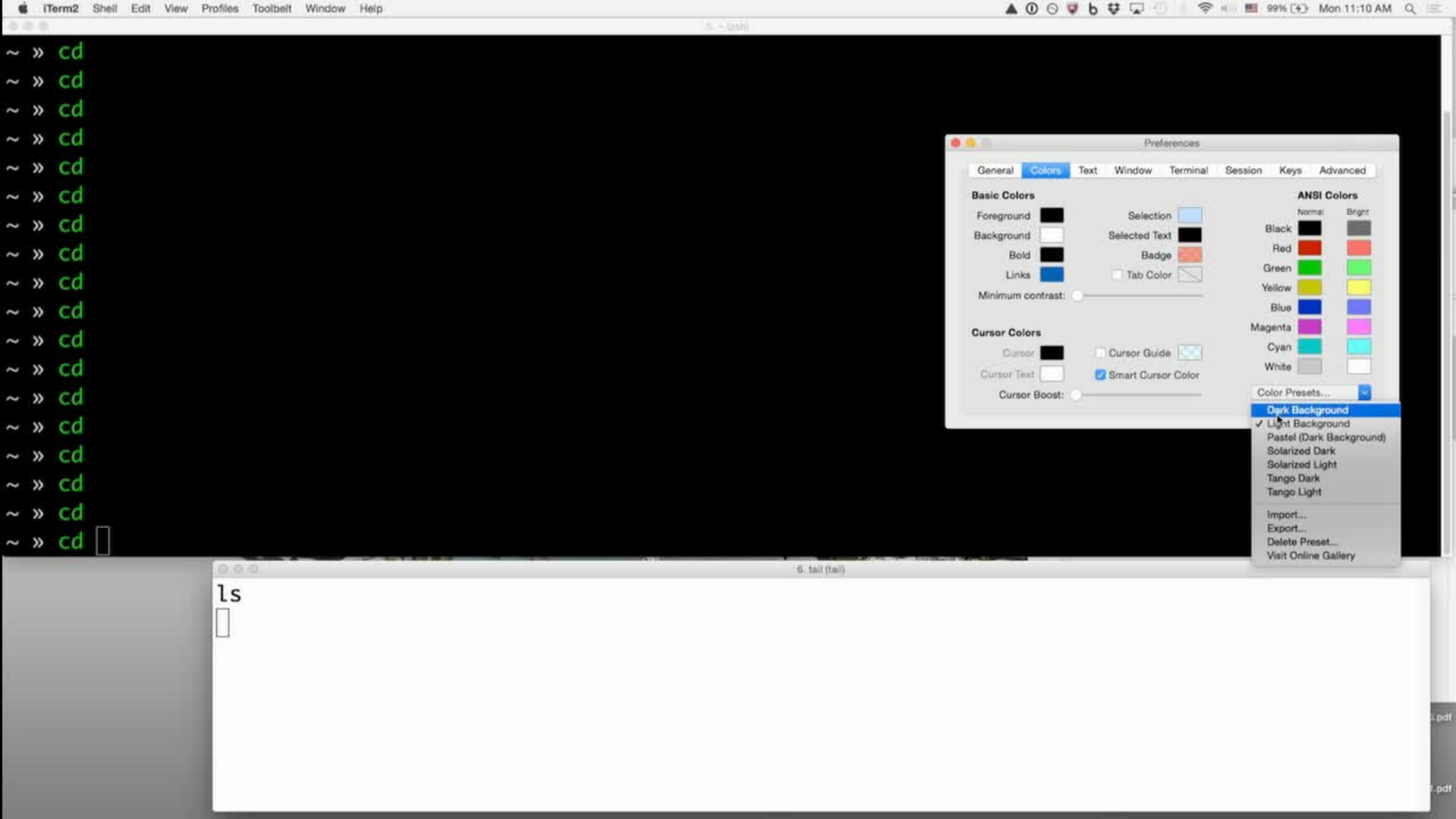












```
~ » cd
~ » cd
~ » cd
~ » cd
~ » cd
~ » cd
~ » cd
~ » cd
~ » cd
~ » cd
~ » cd
~ » cd
~ » cd
~ » cd
~ » cd
~ » cd
```

Preferences

General Colors Text Window Terminal Session Keys Advanced

Basic Colors

Foreground Selection

Background Selected Text

Bold Badge

Links ☐ Tab Color

Minimum contrast:

Cursor Colors

Cursor ☐ Cursor Guide

Cursor Text ☒ Smart Cursor Color

Cursor Boost:

ANSI Colors

	Normal	Bright
Black		
Red		
Green		
Yellow		
Blue		
Magenta		
Cyan		
White		

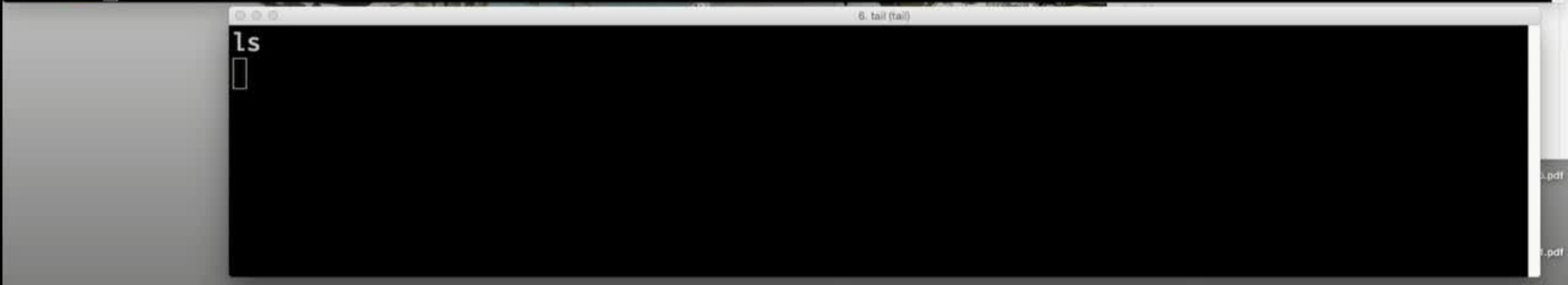
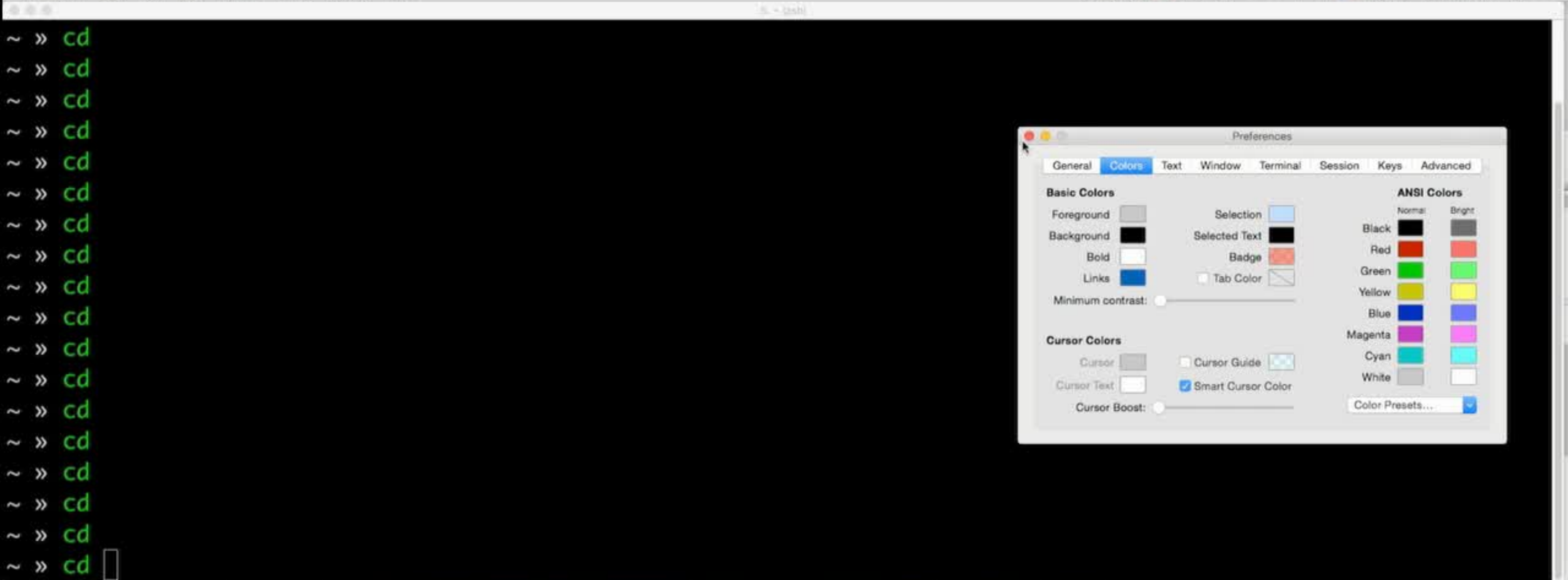
Color Presets...

- Dark Background
- ✓ Light Background
- Pastel (Dark Background)
- Solarized Dark
- Solarized Light
- Tango Dark
- Tango Light

Import...
Export...
Delete Preset...
Visit Online Gallery

6. tail (tail)

```
ls
```

```
~ » mkdir git_yer_git_on
~ » cd git_yer_git_on
~/git_yer_git_on » git init
Initialized empty Git repository in /Users/ketch/git_yer_git_on/.git/
~/git_yer_git_on - [master] » ls .git
HEAD          branches      config        description   hooks         info          objects       refs
~/git_yer_git_on - [master] » ls
~/git_yer_git_on - [master] » git status
On branch master

Initial commit

nothing to commit (create/copy files and use "git add" to track)
~/git_yer_git_on - [master] »
```

```
ls
mkdir git_yer_git_on
cd git_yer_git_on
git init
ls .git
ls
git status
```



```

~ » mkdir git_yer_git_on
~ » cd git_yer_git_on
~/git_yer_git_on » git init
Initialized empty Git repository in /Users/ketch/git_yer_git_on/.git/
~/git_yer_git_on - [master] » ls .git
HEAD          branches      config        description   hooks         info          objects       refs
~/git_yer_git_on - [master] » ls
~/git_yer_git_on - [master] » git status
On branch master

Initial commit

nothing to commit (create/copy files and use "git add" to track)
~/git_yer_git_on - [master] »

```

```

ls
mkdir git_yer_git_on
cd git_yer_git_on
git init
ls .git
ls
git status

```

```
~ » mkdir git_yer_git_on
~ » cd git_yer_git_on
~/git_yer_git_on » git init
Initialized empty Git repository in /Users/ketch/git_yer_git_on/.git/
~/git_yer_git_on - [master] » ls .git
HEAD          branches      config        description   hooks         info          objects       refs
~/git_yer_git_on - [master] » ls
~/git_yer_git_on - [master] » git status
On branch master

Initial commit

nothing to commit (create/copy files and use "git add" to track)
~/git_yer_git_on - [master] » mvim README.md
```

```
ls
mkdir git_yer_git_on
cd git_yer_git_on
git init
ls .git
ls
git status
```



```
~ » mkdir git_yer_git_on
~ » cd git_yer_git_on
~/git_yer_git_on » git init
Initialized empty Git repository in /u
~/git_yer_git_on - [master] » ls .git
HEAD      branches  config    de
~/git_yer_git_on - [master] » ls
~/git_yer_git_on - [master] » git stat
On branch master

Initial commit

nothing to commit (create/copy files o
~/git_yer_git_on - [master] » mvim REA
~/git_yer_git_on - [master] »
```

```
mkdir git_yer_git_on
cd git_yer_git_on
git init
ls .git
ls
git status
mvim README.md
```

refs

```
~ » mkdir git_yer_git_on
~ » cd git_yer_git_on
~/git_yer_git_on » git init
Initialized empty Git repository in /u
~/git_yer_git_on - [master] » ls .git
HEAD      branches  config    de
~/git_yer_git_on - [master] » ls
~/git_yer_git_on - [master] » git stat
On branch master

Initial commit

nothing to commit (create/copy files a
~/git_yer_git_on - [master] » mvim REA
~/git_yer_git_on - [master] »
```

```
mkdir git_yer_git_on
cd git_yer_git_on
git init
ls .git
ls
git status
mvim README.md
```

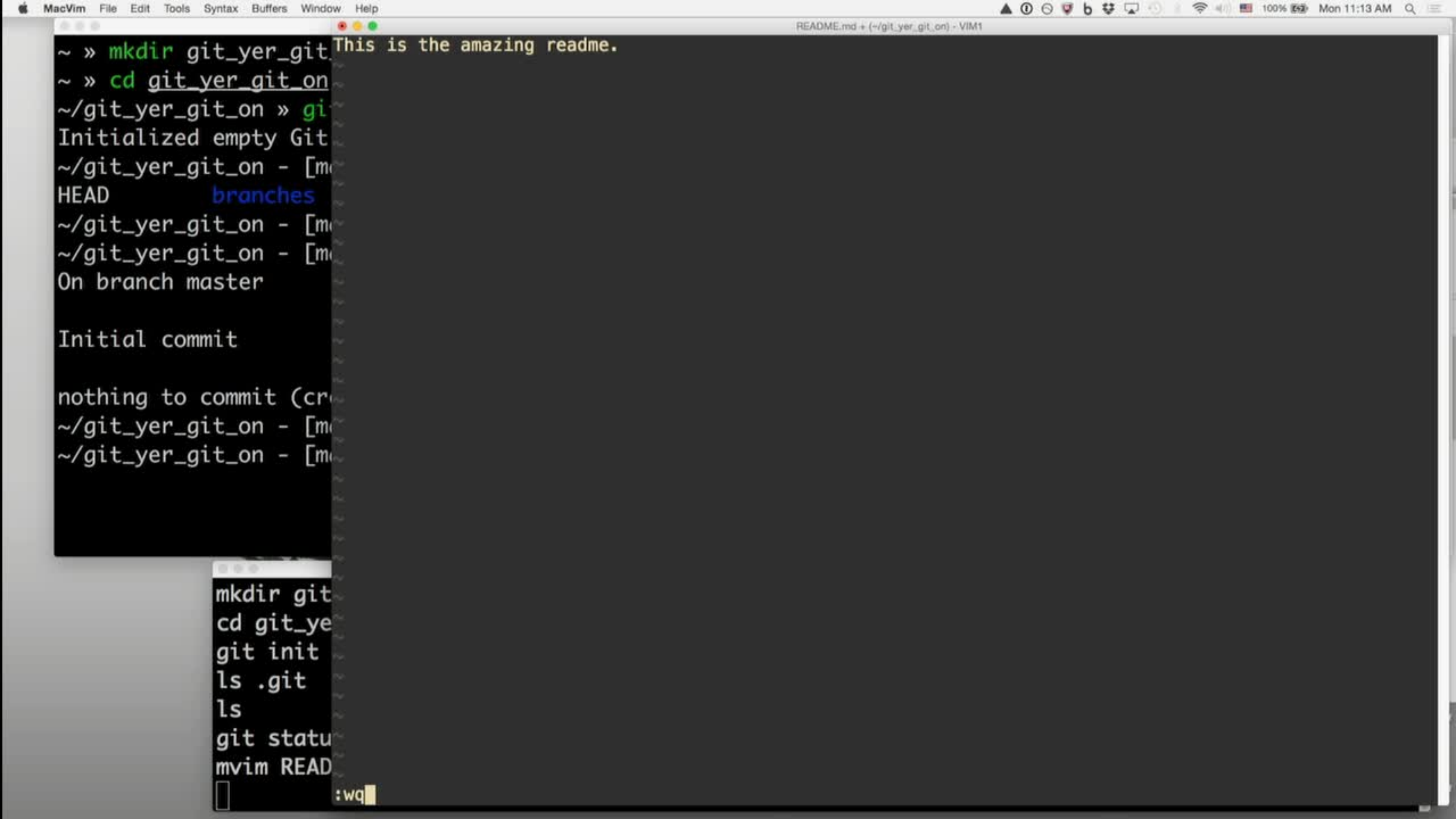
refs


```
~ » mkdir git_yer_git_on
~ » cd git_yer_git_on
~/git_yer_git_on » git init
Initialized empty Git repository in /U
~/git_yer_git_on - [master] » ls .git
HEAD      branches  config    de
~/git_yer_git_on - [master] » ls
~/git_yer_git_on - [master] » git stat
On branch master

Initial commit

nothing to commit (create/copy files o
~/git_yer_git_on - [master] » mvim REA
~/git_yer_git_on - [master] »
```

```
mkdir git_yer_git_on
cd git_yer_git_on
git init
ls .git
ls
git status
mvim README.md
```



On branch master

Initial commit

nothing to commit (create/copy files and use "git add" to track)

~/git_yer_git_on - [master] » `mvim` README.md

~/git_yer_git_on - [master] » `git` status

On branch master

Initial commit

Untracked files:

(use "git add <file>..." to include in what will be committed)

`README.md`

nothing added to commit but untracked files present (use "git add" to track)

~/git_yer_git_on - [master●] »

`cd git_yer_git_on`

`git init`

`ls .git`

`ls`

`git status`

`mvim README.md`

`git status`

On branch master

Initial commit

nothing to commit (create/copy files and use "git add" to track)

~/git_yer_git_on - [master] » `mvim` README.md

~/git_yer_git_on - [master] » `git` status

On branch master

Initial commit

Untracked files:

(use "git add <file>..." to include in what will be committed)

README.md

nothing added to commit but untracked files present (use "git add" to track)

~/git_yer_git_on - [master] »

`cd` git_yer_git_on

`git` init

`ls` .git

`ls`

`git` status

`mvim` README.md

`git` status

Initial commit

nothing to commit (create/copy files and use "git add" to track)

```
~/git_yer_git_on - [master] » mvim README.md
```

```
~/git_yer_git_on - [master] » git status
```

On branch master

Initial commit

Untracked files:

(use "git add <file>..." to include in what will be committed)

README.md

nothing added to commit but untracked files present (use "git add" to track)

```
~/git_yer_git_on - [master•] » git add README.md
```

```
~/git_yer_git_on - [master] » git stat
```

```
git init
```

```
ls .git
```

```
ls
```

```
git status
```

```
mvim README.md
```

```
git status
```

```
git add README.md
```

Untracked files:

(use "git add <file>..." to include in what will be committed)

README.md

nothing added to commit but untracked files present (use "git add" to track)

~/git_yer_git_on - [master•] » git add README.md

~/git_yer_git_on - [master] » git status

On branch master

Initial commit

Changes to be committed:

(use "git rm --cached <file>..." to unstage)

new file: README.md

~/git_yer_git_on - [master] » git commit

ls .git

ls

git status

mvim README.md

git status

git add README.md

git status

Starting the README.

I could put more information
in this message.

```
# Please enter the commit message for your changes. Lines starting  
# with '#' will be ignored, and an empty message aborts the commit.
```

```
# On branch master
```

```
#
```

```
# Initial commit
```

```
#
```

```
# Changes to be committed:
```

```
#   new file:   README.md
```

```
#
```

```
:wq\
```

```
ls  
git status  
mvim README.md  
git status  
git add README.md  
git status  
git commit
```

nothing added to commit but untracked files present (use "git add" to track)

```
~/git_yer_git_on - [master] » git add README.md
```

```
~/git_yer_git_on - [master] » git status
```

On branch master

Initial commit

Changes to be committed:

(use "git rm --cached <file>..." to unstage)

new file: README.md

```
~/git_yer_git_on - [master] » git commit
```

```
[master (root-commit) 5719bdd] Starting the README.
```

```
1 file changed, 1 insertion(+)
```

```
create mode 100644 README.md
```

```
~/git_yer_git_on - [master] »
```

```
ls
```

```
git status
```

```
mvim README.md
```

```
git status
```

```
git add README.md
```

```
git status
```

```
git commit
```


nothing added to commit but untracked files present (use "git add" to track)

```
~/git_yer_git_on - [master] » git add README.md
```

```
~/git_yer_git_on - [master] » git status
```

On branch master

Initial commit

Changes to be committed:

(use "git rm --cached <file>..." to unstage)

new file: README.md

```
~/git_yer_git_on - [master] » git commit
```

```
[master (root-commit) 5719bdd] Starting the README.
```

```
1 file changed, 1 insertion(+)
```

```
create mode 100644 README.md
```

```
~/git_yer_git_on - [master] »
```

```
ls
```

```
git status
```

```
mvim README.md
```

```
git status
```

```
git add README.md
```

```
git status
```

```
git commit
```

nothing added to commit but untracked files present (use "git add" to track)

```
~/git_yer_git_on - [master] » git add README.md
```

```
~/git_yer_git_on - [master] » git status
```

On branch master

Initial commit

Changes to be committed:

(use "git rm --cached <file>..." to unstage)

new file: README.md

```
~/git_yer_git_on - [master] » git commit
```

```
[master (root-commit) 5719bdd] Starting the README.
```

```
1 file changed, 1 insertion(+)
```

```
create mode 100644 README.md
```

```
~/git_yer_git_on - [master] » git status
```

```
ls
```

```
git status
```

```
mvim README.md
```

```
git status
```

```
git add README.md
```

```
git status
```

```
git commit
```



```
~/git_yer_git_on - [master] » git commit
[master (root-commit) 5719bdd] Starting the README.
1 file changed, 1 insertion(+)
create mode 100644 README.md
~/git_yer_git_on - [master] » git status
On branch master
nothing to commit, working directory clean
~/git_yer_git_on - [master] » git log
commit 5719bdd819257b2ca64320529eed9c7bc6f4044a
Author: David Ketcheson <dketch@gmail.com>
Date: Mon Feb 27 11:15:11 2017 -0500
```

Starting the README.

I could put more information
in this message.

```
~/git_yer_git_on - [master] »
```

```
mvim README.md
git status
git add README.md
git status
git commit
git status
git log
```

```
~/git_yer_git_on - [master] » git commit
[master (root-commit) 5719bdd] Starting the README.
1 file changed, 1 insertion(+)
create mode 100644 README.md
~/git_yer_git_on - [master] » git status
On branch master
nothing to commit, working directory clean
~/git_yer_git_on - [master] » git log
commit 5719bdd819257b2ca64320529eed9c7bc6f4044a
Author: David Ketcheson <dketch@gmail.com>
Date: Mon Feb 27 11:15:11 2017 -0500
```

Starting the README.

I could put more information
in this message.

```
~/git_yer_git_on - [master] »
```

```
mvim README.md
git status
git add README.md
git status
git commit
git status
git log
```



```
~/git_yer_git_on - [master] » git commit
[master (root-commit) 5719bdd] Starting the README.
1 file changed, 1 insertion(+)
create mode 100644 README.md
~/git_yer_git_on - [master] » git status
On branch master
nothing to commit, working directory clean
~/git_yer_git_on - [master] » git log
commit 5719bdd819257b2ca64320529eed9c7bc6f4044a
Author: David Ketcheson <dketch@gmail.com>
Date: Mon Feb 27 11:15:11 2017 -0500
```

Starting the README.

I could put more information
in this message.

```
~/git_yer_git_on - [master] »
```

```
mvim README.md
git status
git add README.md
git status
git commit
git status
git log
```

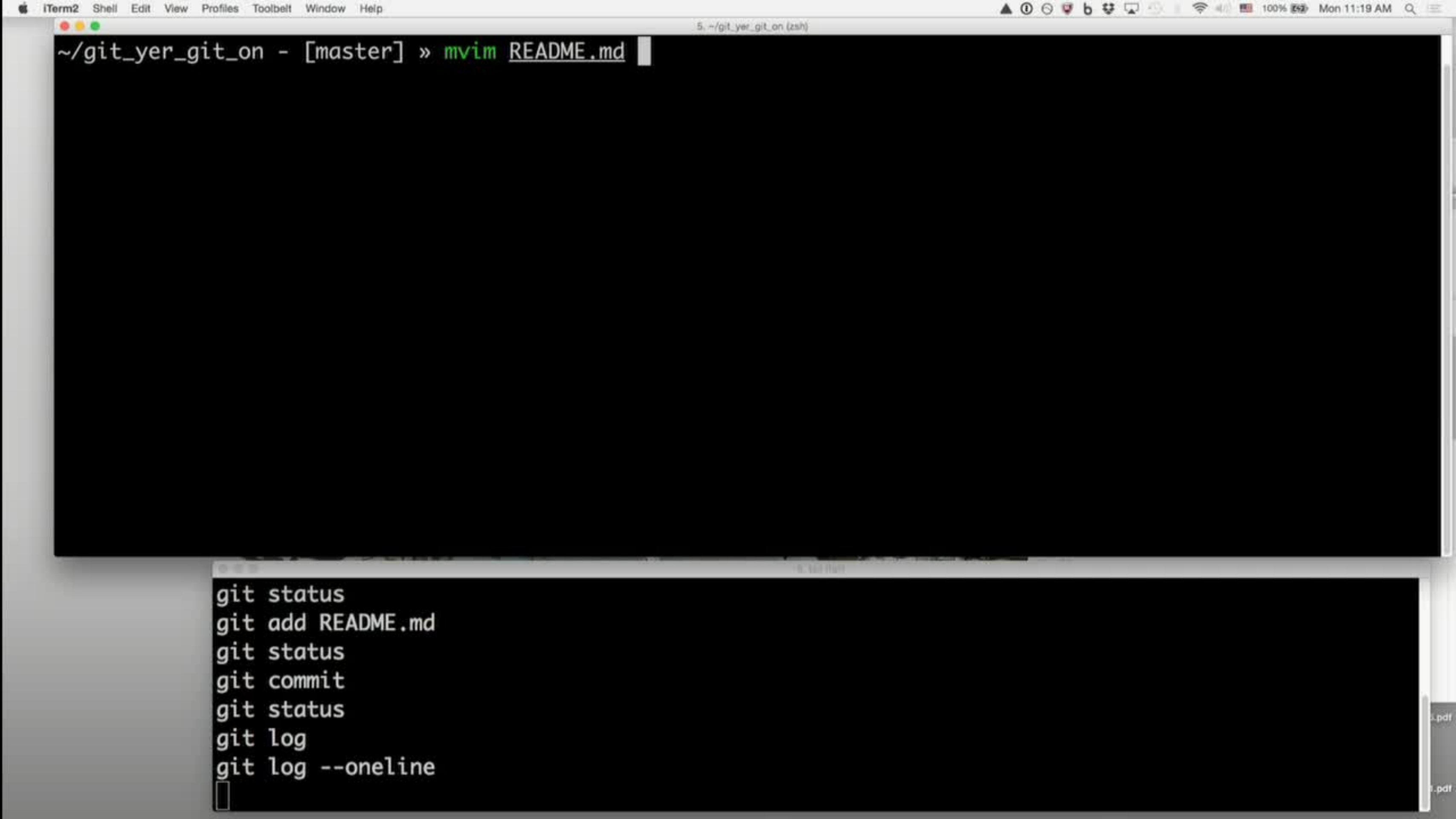
```
~/git_yer_git_on - [master] » git commit
[master (root-commit) 5719bdd] Starting the README.
1 file changed, 1 insertion(+)
create mode 100644 README.md
~/git_yer_git_on - [master] » git status
On branch master
nothing to commit, working directory clean
~/git_yer_git_on - [master] » git log
commit 5719bdd819257b2ca64320529eed9c7bc6f4044a
Author: David Ketcheson <dketch@gmail.com>
Date: Mon Feb 27 11:15:11 2017 -0500
```

Starting the README.

I could put more information
in this message.

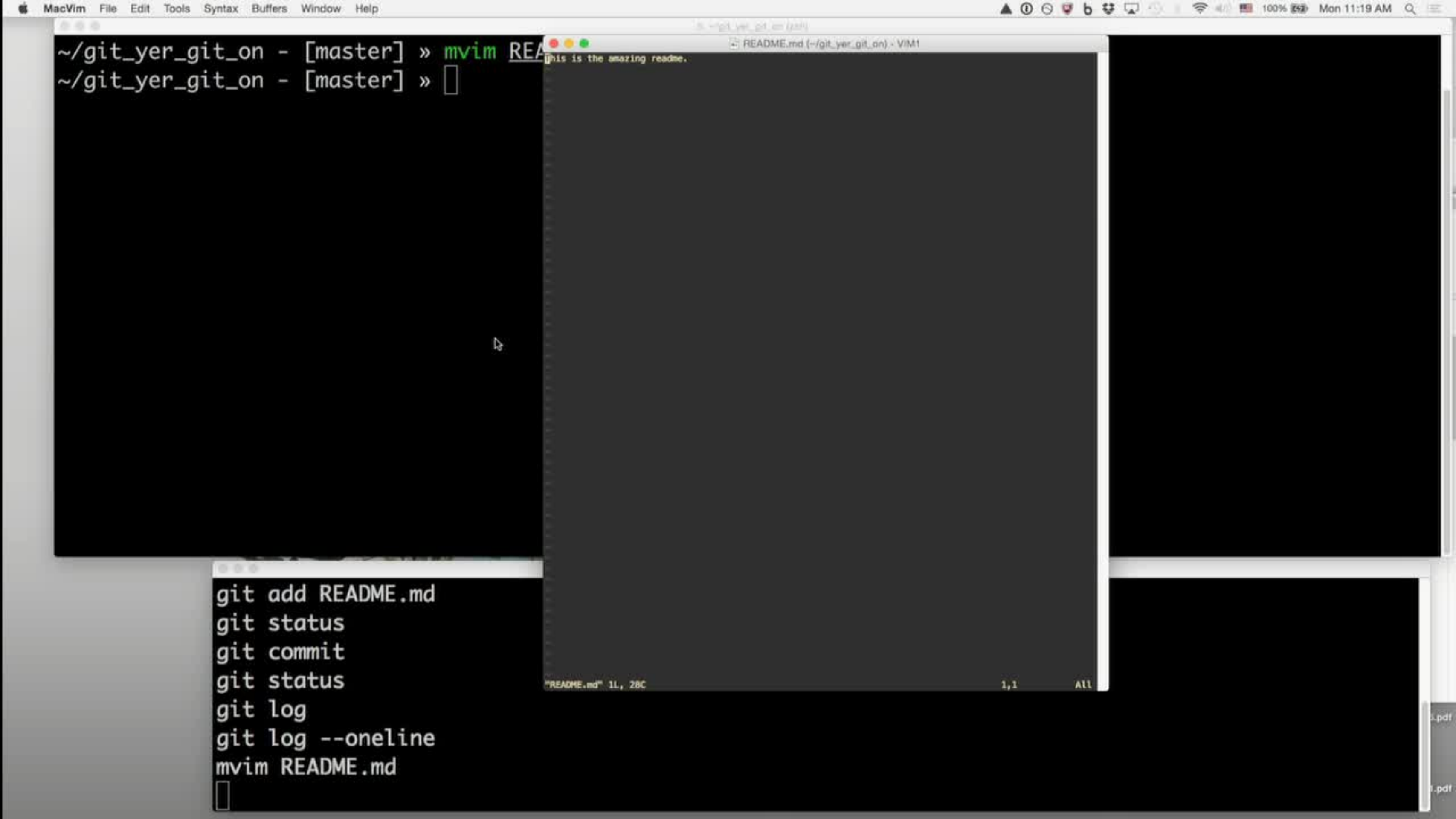
```
~/git_yer_git_on - [master] »
```

```
mvim README.md
git status
git add README.md
git status
git commit
git status
git log
```

~/git_yer_git_on - [master] » mvim README.md

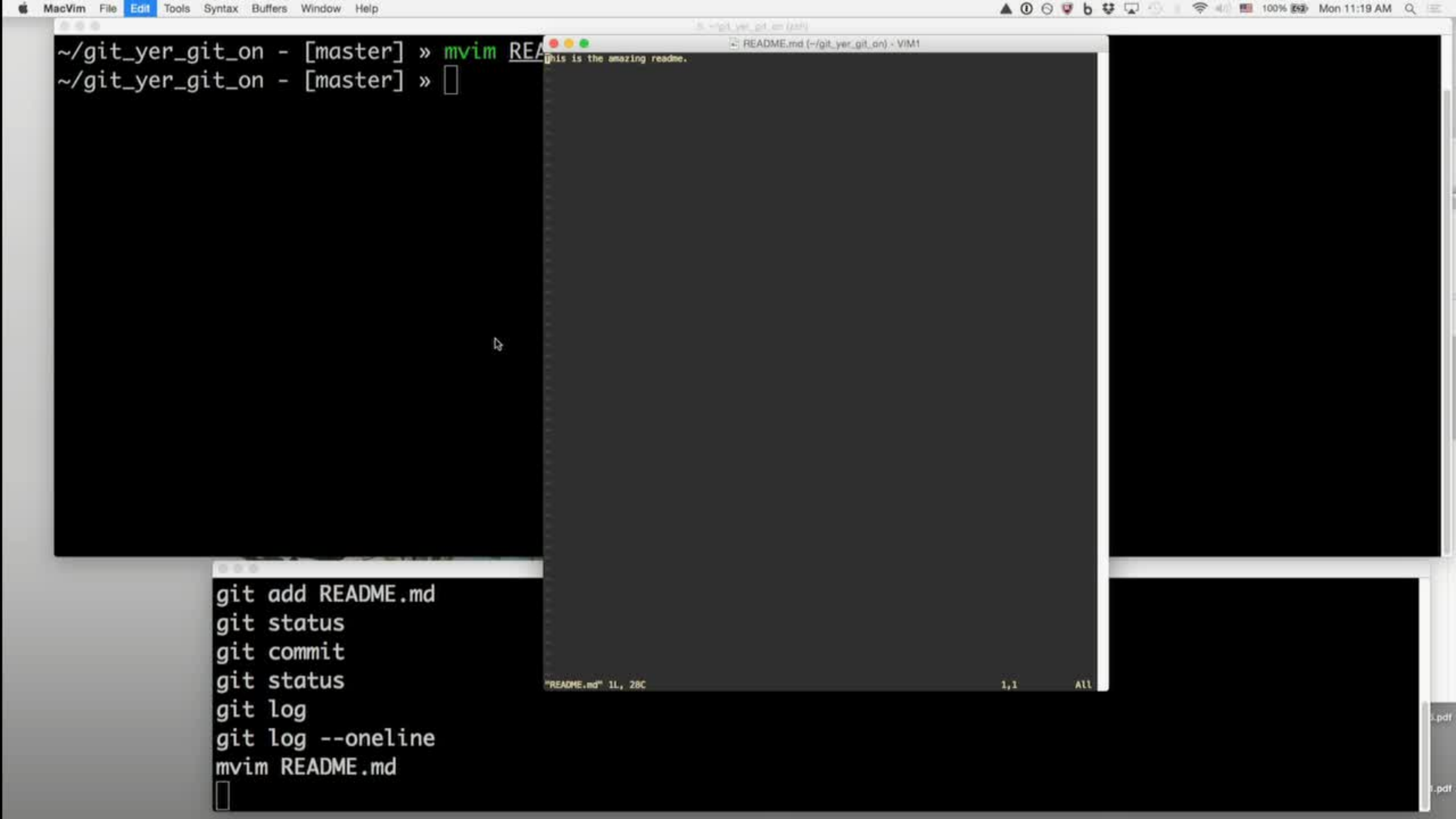
```
git status
git add README.md
git status
git commit
git status
git log
git log --oneline
```



```
~/git_yer_git_on - [master] » mvim REA  
~/git_yer_git_on - [master] »
```

```
README.md (~/git_yer_git_on) - VIM1  
this is the amazing readme.  
  
"README.md" 1L, 28C 1,1 All
```

```
git add README.md  
git status  
git commit  
git status  
git log  
git log --oneline  
mvim README.md
```

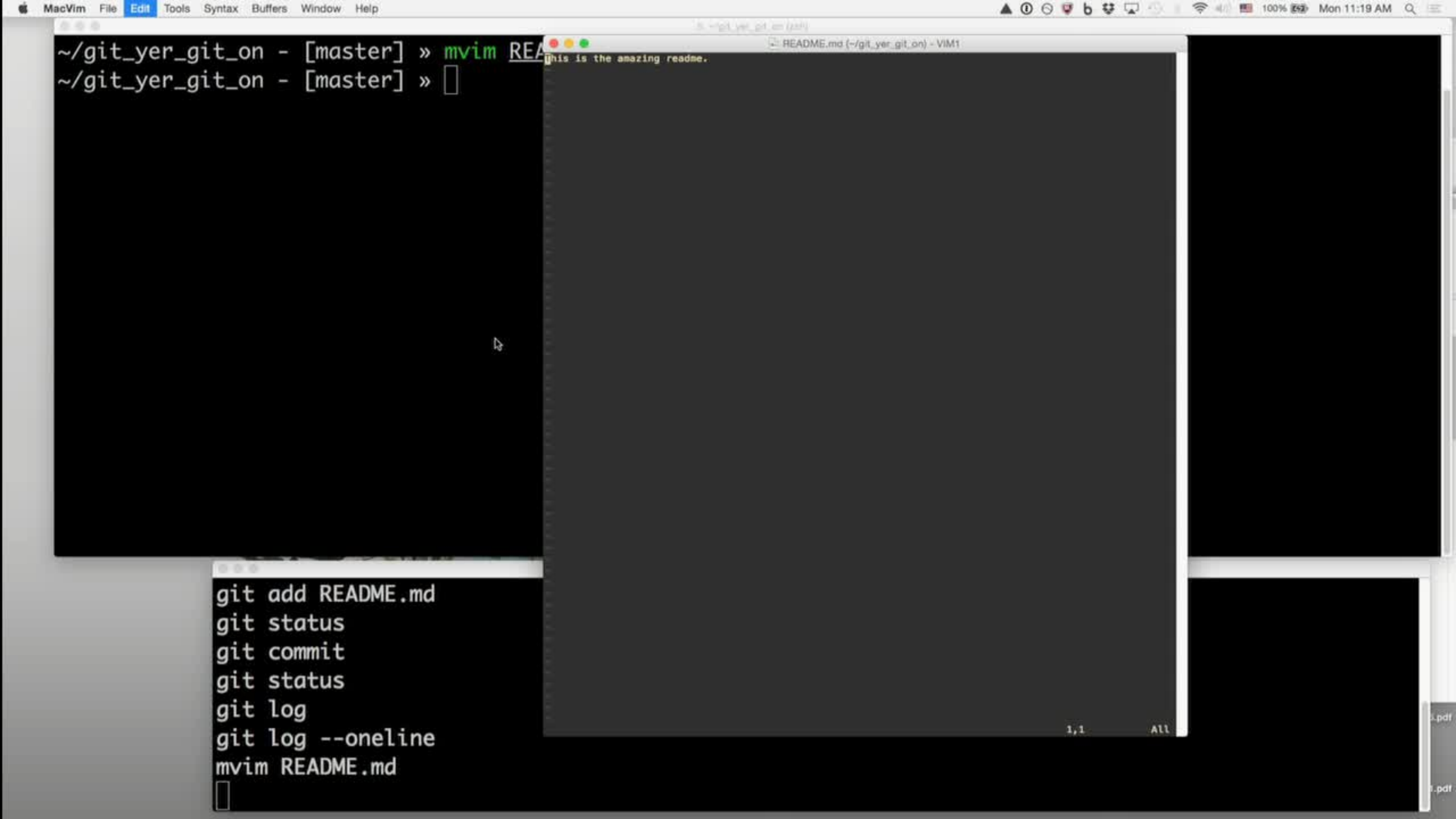



```
~/git_yer_git_on - [master] » mvim REA
~/git_yer_git_on - [master] »
```

README.md (~/git_yer_git_on) - VIM1

this is the amazing readme.

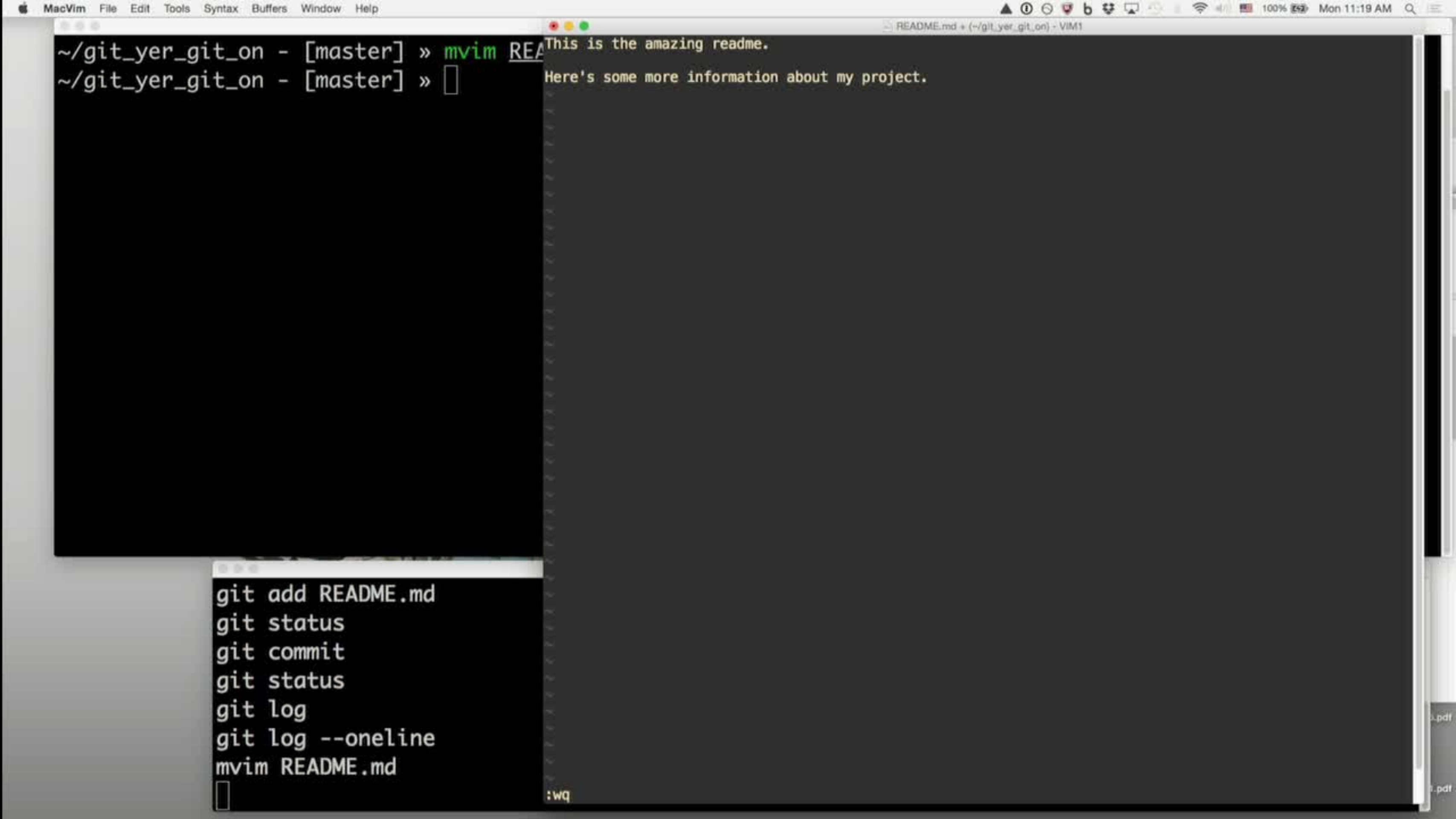
```
git add README.md
git status
git commit
git status
git log
git log --oneline
mvim README.md
```



```
~/git_yer_git_on - [master] » mvim README.md  
~/git_yer_git_on - [master] »
```

```
README.md (~/git_yer_git_on) - VIM1  
this is the amazing readme.  
  
1,1 All
```

```
git add README.md  
git status  
git commit  
git status  
git log  
git log --oneline  
mvim README.md
```

```
~/git_yer_git_on - [master] » mvim REA
~/git_yer_git_on - [master] »
```

```
This is the amazing readme.
Here's some more information about my project.
```

```
git add README.md
git status
git commit
git status
git log
git log --oneline
mvim README.md
```

```
:wq
```

```
~/git_yer_git_on - [master] » git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)
```

```
    modified:   README.md
```

```
no changes added to commit (use "git add" and/or "git commit -a")
```

```
~/git_yer_git_on - [master•] » git add README.md
```

```
~/git_yer_git_on - [master•] » git status
```

```
On branch master
```

```
Changes to be committed:
```

```
  (use "git reset HEAD <file>..." to unstage)
```

```
    modified:   README.md
```

```
~/git_yer_git_on - [master•] »
```

```
git status
git log
git log --oneline
mvim README.md
git status
git add README.md
git status
```



```
~/git_yer_git_on - [master] » git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)
```

```
    modified:   README.md
```

```
no changes added to commit (use "git add" and/or "git commit -a")
```

```
~/git_yer_git_on - [master•] » git add README.md
```

```
~/git_yer_git_on - [master•] » git status
```

```
On branch master
```

```
Changes to be committed:
```

```
  (use "git reset HEAD <file>..." to unstage)
```

```
    modified:   README.md
```

```
~/git_yer_git_on - [master•] »
```

```
git status
git log
git log --oneline
mvim README.md
git status
git add README.md
git status
```

```
~/git_yer_git_on - [master] » git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)
```

```
    modified:   README.md
```

```
no changes added to commit (use "git add" and/or "git commit -a")
```

```
~/git_yer_git_on - [master•] » git add README.md
```

```
~/git_yer_git_on - [master•] » git status
```

```
On branch master
```

```
Changes to be committed:
```

```
  (use "git reset HEAD <file>..." to unstage)
```

```
    modified:   README.md
```

```
~/git_yer_git_on - [master•] » git reset HEAD README.md
```

```
git status
git log
git log --oneline
mvim README.md
git status
git add README.md
git status
```


(use "git add <file>..." to update what will be committed)
(use "git checkout -- <file>..." to discard changes in working directory)

modified: README.md

no changes added to commit (use "git add" and/or "git commit -a")

~/git_yer_git_on - [master●] » git add README.md

~/git_yer_git_on - [master●] » git status

On branch master

Changes to be committed:

(use "git reset HEAD <file>..." to unstage)

modified: README.md

~/git_yer_git_on - [master●] » git reset HEAD README.md

Unstaged changes after reset:

M README.md

~/git_yer_git_on - [master●] » git status

git log
git log --oneline
mvim README.md
git status
git add README.md
git status
git reset HEAD README.md

Changes to be committed:
(use "git reset HEAD <file>..." to unstage)

modified: README.md

~/git_yer_git_on - [master●] » git reset HEAD README.md

Unstaged changes after reset:

M README.md

~/git_yer_git_on - [master●] » git status

On branch master

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git checkout -- <file>..." to discard changes in working directory)

modified: README.md

no changes added to commit (use "git add" and/or "git commit -a")

~/git_yer_git_on - [master●] » mvim R

```
git log --oneline
mvim README.md
git status
git add README.md
git status
git reset HEAD README.md
git status
```


(use "git reset HEAD <file>..." to unstage)

modified: README.md

~/git_yer_git_on - [master●] » git reset HEAD README.md

Unstaged changes after reset:

M README.md

~/git_yer_git_on - [master●] » git status

On branch master

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git checkout -- <file>..." to discard changes in working directory)

modified: README.md

no changes added to commit (use "git add" and/or "git commit -a")

~/git_yer_git_on - [master●] » mvim README.md

~/git_yer_git_on - [master●] »

mvim README.md

git status

git add README.md

git status

git reset HEAD README.md

git status

mvim README.md

(use "git reset HEAD <file>..." to u

modified: README.md

~/git_yer_git_on - [master●] » git res

Unstaged changes after reset:

M README.md

~/git_yer_git_on - [master●] » git sta

On branch master

Changes not staged for commit:

(use "git add <file>..." to update w

(use "git checkout -- <file>..." to

modified: README.md

no changes added to commit (use "git c

~/git_yer_git_on - [master●] » mvim RE

~/git_yer_git_on - [master●] »

mvim README.md

git status

git add README.md

git status

git reset HEAD README.md

git status

mvim README.md

This is the amazing readme.

Here's some more information about my project.

README.md 3L, 76C

3,1

All

(use "git reset HEAD <file>..." to u

modified: README.md

~/git_yer_git_on - [master●] » git res
Unstaged changes after reset:

M README.md

~/git_yer_git_on - [master●] » git sto
On branch master

Changes not staged for commit:

(use "git add <file>..." to update w
(use "git checkout -- <file>..." to

modified: README.md

no changes added to commit (use "git c

~/git_yer_git_on - [master●] » mvim RE

~/git_yer_git_on - [master●] »

This is the amazing readme.

Here's some more information about my project.

mvim README.md

git status

git add README.md

git status

git reset HEAD README.md

git status

mvim README.md

(use "git reset HEAD <file>..." to u

modified: README.md

~/git_yer_git_on - [master●] » git res

Unstaged changes after reset:

M README.md

~/git_yer_git_on - [master●] » git sta

On branch master

Changes not staged for commit:

(use "git add <file>..." to update w

(use "git checkout -- <file>..." to

modified: README.md

no changes added to commit (use "git c

~/git_yer_git_on - [master●] » mvim RE

~/git_yer_git_on - [master●] »

This is the amazing readme.

Here's some more information about my project.

mvim README.md

git status

git add README.md

git status

git reset HEAD README.md

git status

mvim README.md

(use "git reset HEAD <file>..."

This is the amazing readme.

modified: README.md

Here's some more information about my project.

~/git_yer_git_on - [master●] » git

Unstaged changes after reset:

M README.md

~/git_yer_git_on - [master●] » git

On branch master

Changes not staged for commit:

(use "git add <file>..." to update

(use "git checkout -- <file>..."

modified: README.md

no changes added to commit (use "g

~/git_yer_git_on - [master●] » mvi

~/git_yer_git_on - [master●] »

mvim README.md

git status

git add README.md

git status

git reset HEAD README.

git status

mvim README.md

:q

```
iTerm2 Shell Edit View Profiles Toolbelt Window Help
5: ~/git_yer_git_on (zsh)

(use "git reset HEAD <file>..." to unstage)

    modified:   README.md

~/git_yer_git_on - [master●] » git reset HEAD README.md
Unstaged changes after reset:
M       README.md
~/git_yer_git_on - [master●] » git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

    modified:   README.md

no changes added to commit (use "git add" and/or "git commit -a")
~/git_yer_git_on - [master●] » mvim README.md
~/git_yer_git_on - [master●] » git add R

mvim README.md
git status
git add README.md
git status
git reset HEAD README.md
git status
mvim README.md

```


modified: README.md

~/git_yer_git_on - [master●] » `git reset HEAD README.md`

Unstaged changes after reset:

M README.md

~/git_yer_git_on - [master●] » `git status`

On branch master

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git checkout -- <file>..." to discard changes in working directory)

modified: README.md

no changes added to commit (use "git add" and/or "git commit -a")

~/git_yer_git_on - [master●] » `mvim README.md`

~/git_yer_git_on - [master●] » `git add README.md`

~/git_yer_git_on - [master●] » `git commit`

`git status`

`git add README.md`

`git status`

`git reset HEAD README.md`

`git status`

`mvim README.md`

`git add README.md`

Please enter the commit message for your changes. Lines starting
with '#' will be ignored, and an empty message aborts the commit.
On branch master
Changes to be committed:
modified: README.md
#

:q

```
git add README.md
git status
git reset HEAD README.md
git status
mvim README.md
git add README.md
git commit
```


~/git_yer_git_on - [master●] » `git reset HEAD README.md`

Unstaged changes after reset:

M README.md

~/git_yer_git_on - [master●] » `git status`

On branch master

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git checkout -- <file>..." to discard changes in working directory)

modified: README.md

no changes added to commit (use "git add" and/or "git commit -a")

~/git_yer_git_on - [master●] » `mvim README.md`

~/git_yer_git_on - [master●] » `git add README.md`

~/git_yer_git_on - [master●] » `git commit`

Aborting commit due to empty commit message.

~/git_yer_git_on - [master●] »

`git add README.md`

`git status`

`git reset HEAD README.md`

`git status`

`mvim README.md`

`git add README.md`

`git commit`

~/git_yer_git_on - [master●] » `git reset HEAD README.md`

Unstaged changes after reset:

M README.md

~/git_yer_git_on - [master●] » `git status`

On branch master

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git checkout -- <file>..." to discard changes in working directory)

modified: README.md

no changes added to commit (use "git add" and/or "git commit -a")

~/git_yer_git_on - [master●] » `mvim README.md`

~/git_yer_git_on - [master●] » `git add README.md`

~/git_yer_git_on - [master●] » `git commit`

Aborting commit due to empty commit message.

~/git_yer_git_on - [master●] »

`git add README.md`

`git status`

`git reset HEAD README.md`

`git status`

`mvim README.md`

`git add README.md`

`git commit`

~/git_yer_git_on - [master●] » **git** reset HEAD README.md

Unstaged changes after reset:

M README.md

~/git_yer_git_on - [master●] » **git** status

On branch master

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git checkout -- <file>..." to discard changes in working directory)

modified: README.md

no changes added to commit (use "git add" and/or "git commit -a")

~/git_yer_git_on - [master●] » **mvim** README.md

~/git_yer_git_on - [master●] » **git** add README.md

~/git_yer_git_on - [master●] » **git** commit

Aborting commit due to empty commit message.

~/git_yer_git_on - [master●] » **git** log

git add README.md

git status

git reset HEAD README.md

git status

mvim README.md

git add README.md

git commit

modified: README.md

no changes added to commit (use "git add" and/or "git commit -a")

```
~/git_yer_git_on - [master•] » mvim README.md
```

```
~/git_yer_git_on - [master•] » git add README.md
```

```
~/git_yer_git_on - [master•] » git commit
```

Aborting commit due to empty commit message.

```
~/git_yer_git_on - [master•] » git log
```

```
commit 5719bdd819257b2ca64320529eed9c7bc6f4044a
```

```
Author: David Ketcheson <dketch@gmail.com>
```

```
Date: Mon Feb 27 11:15:11 2017 -0500
```

Starting the README.

I could put more information
in this message.

```
~/git_yer_git_on - [master•] » git commit -m "add to the readme."
```

```
git status
```

```
git reset HEAD README.md
```

```
git status
```

```
mvim README.md
```

```
git add README.md
```

```
git commit
```

```
git log
```


On branch master
nothing to commit, working directory clean
~/git_yer_git_on - [master] » `git log`
`commit 3b0b260f6186e4821e388c0e176636303ed1eb32`
Author: David Ketcheson <dketch@gmail.com>
Date: Mon Feb 27 11:26:08 2017 -0500

add to the readme.

`commit 5719bdd819257b2ca64320529eed9c7bc6f4044a`
Author: David Ketcheson <dketch@gmail.com>
Date: Mon Feb 27 11:15:11 2017 -0500

Starting the README.

I could put more information
in this message.

~/git_yer_git_on - [master] » `git checkout 3b0b260f6`

```
mvim README.md
git add README.md
git commit
git log
git commit -m "add to the readme."
git status
git log
```

Starting the README.

I could put more information
in this message.

```
~/git_yer_git_on - [master] » git checkout 3b0b260f6
```

Note: checking out '3b0b260f6'.

You are in 'detached HEAD' state. You can look around, make experimental changes and commit them, and you can discard any commits you make in this state without impacting any branches by performing another checkout.

If you want to create a new branch to retain commits you create, you may do so (now or later) by using -b with the checkout command again. Example:

```
git checkout -b <new-branch-name>
```

HEAD is now at 3b0b260... add to the readme.

```
~/git_yer_git_on - [3b0b260...] » mvim R
```

```
git add README.md
git commit
git log
git commit -m "add to the readme."
git status
git log
git checkout 3b0b260f6
```


I could put more information
in this message.

```
~/git_yer_git_on - [master] » git checkout 3b0b260f6
```

Note: checking out '3b0b260f6'.

You are in 'detached HEAD' state. You can look around, make experimental changes and commit them, and you can discard any commits you make in this state without impacting any branches by performing another checkout.

If you want to create a new branch to retain commits you create, you may do so (now or later) by using `-b` with the checkout command again. Example:

```
git checkout -b <new-branch-name>
```

HEAD is now at 3b0b260... add to the readme.

```
~/git_yer_git_on - [3b0b260...] » mvim README.md
```

```
~/git_yer_git_on - [3b0b260...] »
```

```
git commit
git log
git commit -m "add to the readme."
git status
git log
git checkout 3b0b260f6
mvim README.md
```

I could put more information
in this message.

```
~/git_yer_git_on - [master] » git checkout 3b0b260f6
Note: checking out '3b0b260f6'.
```

You are in 'detached HEAD' state. You can look around, make experimental changes and commit them, and you can discard any commits you make in this state without impacting any branches by performing another checkout.

If you want to create a new branch to retain commits you create, you may do so (now or later) by using -b with the checkout command again. Example:

```
git checkout -b <new-branch-name>
```

HEAD is now at 3b0b260... add to the readme.

```
~/git_yer_git_on - [3b0b260...] » mvim README.md
```

```
~/git_yer_git_on - [3b0b260...] »
```

```
git commit
```

```
git log
```

```
git commit -m "add to the readme."
```

```
git status
```

```
git log
```

```
git checkout 3b0b260f6
```

```
mvim README.md
```


I could put more information
in this message.

```
~/git_yer_git_on - [master] » git checko  
Note: checking out '3b0b260f6'.
```

You are in 'detached HEAD' state. You
changes and commit them, and you can c
state without impacting any branches b

If you want to create a new branch to
do so (now or later) by using -b with

```
git checkout -b <new-branch-name>
```

```
HEAD is now at 3b0b260... add to the r  
~/git_yer_git_on - [3b0b260...] » mvin  
~/git_yer_git_on - [3b0b260...] »
```

```
git commit  
git log  
git commit -m "add to the  
git status  
git log  
git checkout 3b0b260f6  
mvim README.md
```

This is the amazing readme.

Here's some more information about my project.

I could put more information
in this message.

```
~/git_yer_git_on - [master] » git checko  
Note: checking out '3b0b260f6'.
```

You are in 'detached HEAD' state. You
changes and commit them, and you can c
state without impacting any branches b

If you want to create a new branch to
do so (now or later) by using -b with

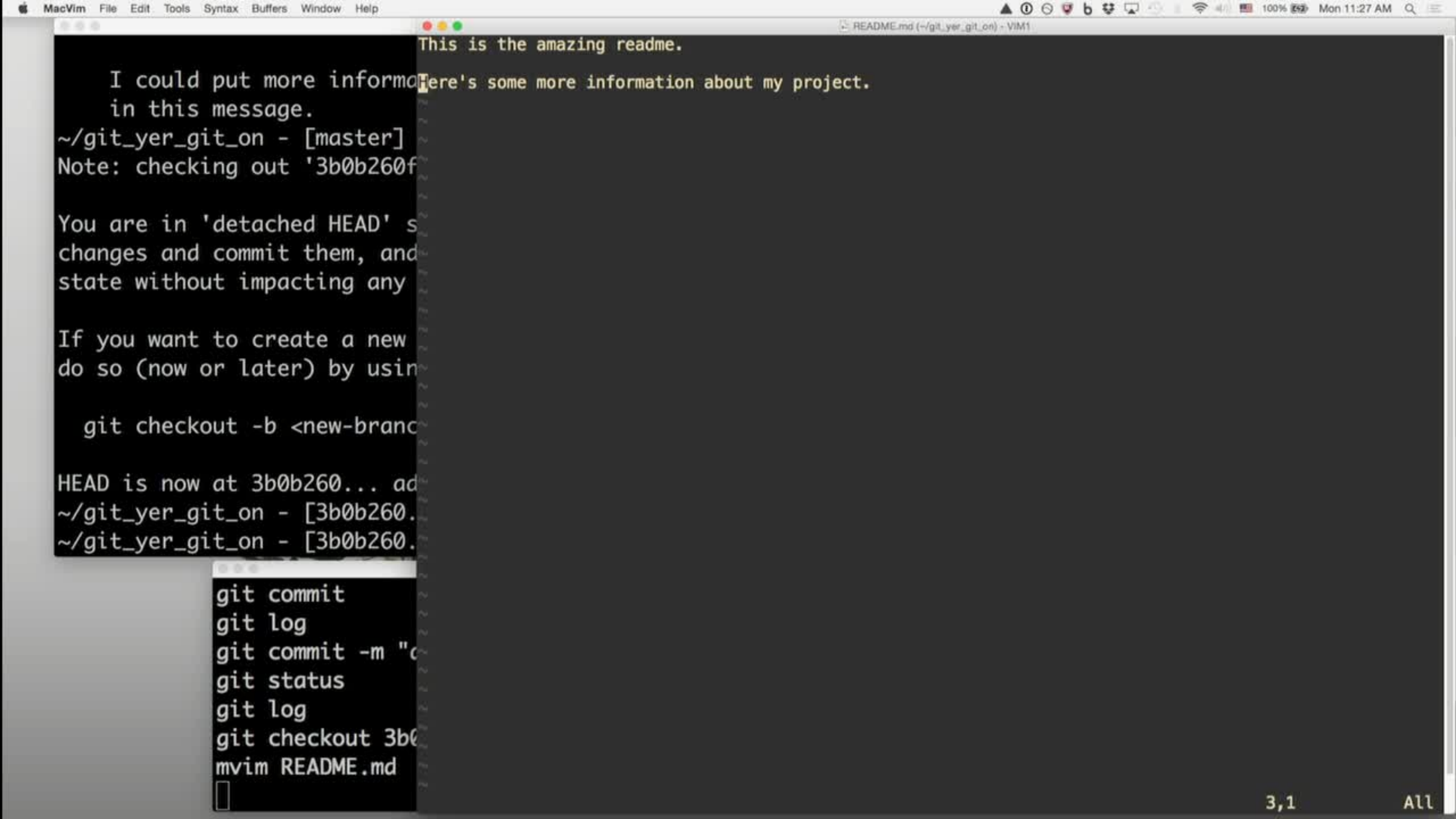
```
git checkout -b <new-branch-name>
```

```
HEAD is now at 3b0b260... add to the r  
~/git_yer_git_on - [3b0b260...] » mvin  
~/git_yer_git_on - [3b0b260...] »
```

```
git commit  
git log  
git commit -m "add to the  
git status  
git log  
git checkout 3b0b260f6  
mvim README.md
```

This is the amazing readme.

Here's some more information about my project.



I could put more information
in this message.

~/git_yer_git_on - [master]

Note: checking out '3b0b260f'

You are in 'detached HEAD' s
changes and commit them, and
state without impacting any

If you want to create a new
do so (now or later) by using

git checkout -b <new-branch>

HEAD is now at 3b0b260... ad

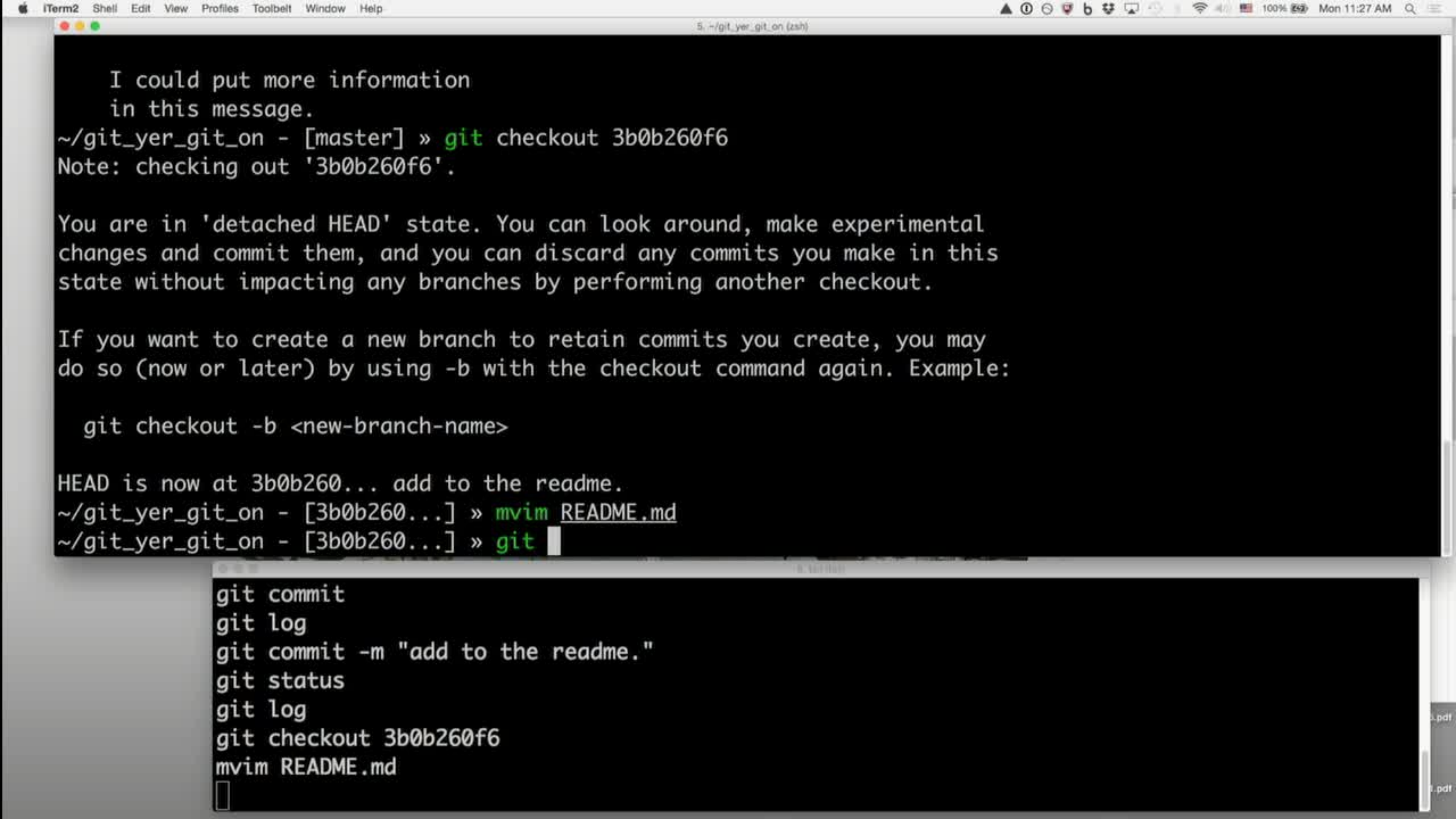
~/git_yer_git_on - [3b0b260.]

~/git_yer_git_on - [3b0b260.]

```
git commit
git log
git commit -m "c
git status
git log
git checkout 3b0
mvim README.md
```

This is the amazing readme.

Here's some more information about my project.



I could put more information
in this message.

```
~/git_yer_git_on - [master] » git checkout 3b0b260f6
```

Note: checking out '3b0b260f6'.

You are in 'detached HEAD' state. You can look around, make experimental
changes and commit them, and you can discard any commits you make in this
state without impacting any branches by performing another checkout.

If you want to create a new branch to retain commits you create, you may
do so (now or later) by using -b with the checkout command again. Example:

```
git checkout -b <new-branch-name>
```

HEAD is now at 3b0b260... add to the readme.

```
~/git_yer_git_on - [3b0b260...] » mvim README.md
```

```
~/git_yer_git_on - [3b0b260...] » git
```

```
git commit
```

```
git log
```

```
git commit -m "add to the readme."
```

```
git status
```

```
git log
```

```
git checkout 3b0b260f6
```

```
mvim README.md
```



```
HEAD is now at 3b0b260... add to the readme.  
~/git_yer_git_on - [3b0b260...] » mvim README.md  
~/git_yer_git_on - [3b0b260...] » git log  
commit 3b0b260f6186e4821e388c0e176636303ed1eb32  
Author: David Ketcheson <dketch@gmail.com>  
Date: Mon Feb 27 11:26:08 2017 -0500
```

add to the readme.

```
commit 5719bdd819257b2ca64320529eed9c7bc6f4044a  
Author: David Ketcheson <dketch@gmail.com>  
Date: Mon Feb 27 11:15:11 2017 -0500
```

Starting the README.

I could put more information
in this message.

```
~/git_yer_git_on - [3b0b260...] » git checkout 5719bdd8
```

```
git log  
git commit -m "add to the readme."  
git status  
git log  
git checkout 3b0b260f6  
mvim README.md  
git log  
█
```

```
commit 3b0b260f6186e4821e388c0e176636303ed1eb32
```

```
Author: David Ketcheson <dketch@gmail.com>
```

```
Date: Mon Feb 27 11:26:08 2017 -0500
```

```
add to the readme.
```

```
commit 5719bdd819257b2ca64320529eed9c7bc6f4044a
```

```
Author: David Ketcheson <dketch@gmail.com>
```

```
Date: Mon Feb 27 11:15:11 2017 -0500
```

```
Starting the README.
```

```
I could put more information  
in this message.
```

```
~/git_yer_git_on - [3b0b260...] » git checkout 5719bdd8
```

```
Previous HEAD position was 3b0b260... add to the readme.
```

```
HEAD is now at 5719bdd... Starting the README.
```

```
~/git_yer_git_on - [5719bdd...] » mvim R
```

```
git commit -m "add to the readme."
```

```
git status
```

```
git log
```

```
git checkout 3b0b260f6
```

```
mvim README.md
```

```
git log
```

```
git checkout 5719bdd8
```


Author: David Ketcheson <dketch@gmail.com>
Date: Mon Feb 27 11:26:08 2017 -0500

add to the readme.

commit 5719bdd819257b2ca64320529eed9c7bc6f4044a

Author: David Ketcheson <dketch@gmail.com>
Date: Mon Feb 27 11:15:11 2017 -0500

Starting the README.

I could put more information
in this message.

```
~/git_yer_git_on - [3b0b260...] » git checkout 5719bdd8
Previous HEAD position was 3b0b260... add to the readme.
HEAD is now at 5719bdd... Starting the README.
~/git_yer_git_on - [5719bdd...] » mvim README.md
~/git_yer_git_on - [5719bdd...] »
```

```
git status
git log
git checkout 3b0b260f6
mvim README.md
git log
git checkout 5719bdd8
mvim README.md
```

Author: David Ketcheson <dketch@gmail.com>
Date: Mon Feb 27 11:26:08 2017 -0500

add to the readme.

commit 5719bdd819257b2ca64320529eed9c7

Author: David Ketcheson <dketch@gmail.com>
Date: Mon Feb 27 11:15:11 2017 -0500

Starting the README.

I could put more information
in this message.

~/git_yer_git_on - [3b0b260...] » git
Previous HEAD position was 3b0b260...
HEAD is now at 5719bdd... Starting the
~/git_yer_git_on - [5719bdd...] » mvim
~/git_yer_git_on - [5719bdd...] »

git status
git log
git checkout 3b0b260f6
mvim README.md
git log
git checkout 5719bdd8
mvim README.md

README.md 1L, 28C

1,27

All


```
Author: David Ketcheson <dketch@gmail.com>  
Date: Mon Feb 27 11:26:08 2017 -0500
```

add to the readme.

```
commit 5719bdd819257b2ca64320529eed9c7
```

```
Author: David Ketcheson <dketch@gmail.com>  
Date: Mon Feb 27 11:15:11 2017 -0500
```

Starting the README.

I could put more information
in this message.

```
~/git_yer_git_on - [3b0b260...] » git  
Previous HEAD position was 3b0b260...  
HEAD is now at 5719bdd... Starting the  
~/git_yer_git_on - [5719bdd...] » mvim  
~/git_yer_git_on - [5719bdd...] »
```

This is the amazing readme

```
git status  
git log  
git checkout 3b0b260f6  
mvim README.md  
git log  
git checkout 5719bdd8  
mvim README.md
```

Author: David Ketcheson <dketch@gmail.
Date: Mon Feb 27 11:26:08 2017 -0500

add to the readme.

commit 5719bdd819257b2ca64320529eed9c7

Author: David Ketcheson <dketch@gmail.
Date: Mon Feb 27 11:15:11 2017 -0500

Starting the README.

I could put more information
in this message.

~/git_yer_git_on - [3b0b260...] » git
Previous HEAD position was 3b0b260...
HEAD is now at 5719bdd... Starting the
~/git_yer_git_on - [5719bdd...] » mvin
~/git_yer_git_on - [5719bdd...] »

This is the amazing readme

```
git status
git log
git checkout 3b0b260f6
mvim README.md
git log
git checkout 5719bdd8
mvim README.md
```



```
Author: David Ketcheson <dketch@gmail.com>
Date:   Mon Feb 27 11:26:08 2017 -0500
```

add to the readme.

```
commit 5719bdd819257b2ca64320529eed9c7
```

```
Author: David Ketcheson <dketch@gmail.com>
Date:   Mon Feb 27 11:15:11 2017 -0500
```

Starting the README.

I could put more information
in this message.

```
~/git_yer_git_on - [3b0b260...] » git
Previous HEAD position was 3b0b260...
HEAD is now at 5719bdd... Starting the
~/git_yer_git_on - [5719bdd...] » mvim
~/git_yer_git_on - [5719bdd...] »
```

```
git status
git log
git checkout 3b0b260f6
mvim README.md
git log
git checkout 5719bdd8
mvim README.md
```

This is the amazing readme.

:q

Author: David Ketcheson <dketch@gmail.com>
Date: Mon Feb 27 11:26:08 2017 -0500

add to the readme.

commit 5719bdd819257b2ca64320529eed9c7bc6f4044a

Author: David Ketcheson <dketch@gmail.com>
Date: Mon Feb 27 11:15:11 2017 -0500

Starting the README.

I could put more information
in this message.

```
~/git_yer_git_on - [3b0b260...] » git checkout 5719bdd8
Previous HEAD position was 3b0b260... add to the readme.
HEAD is now at 5719bdd... Starting the README.
~/git_yer_git_on - [5719bdd...] » mvim README.md
~/git_yer_git_on - [5719bdd...] » git checkout master
```

```
git status
git log
git checkout 3b0b260f6
mvim README.md
git log
git checkout 5719bdd8
mvim README.md
```


add to the readme.

commit 5719bdd819257b2ca64320529eed9c7bc6f4044a

Author: David Ketcheson <dketch@gmail.com>

Date: Mon Feb 27 11:15:11 2017 -0500

Starting the README.

I could put more information
in this message.

~/git_yer_git_on - [3b0b260...] » git checkout 5719bdd8

Previous HEAD position was 3b0b260... add to the readme.

HEAD is now at 5719bdd... Starting the README.

~/git_yer_git_on - [5719bdd...] » mvim README.md

~/git_yer_git_on - [5719bdd...] » git checkout master

Previous HEAD position was 5719bdd... Starting the README.

Switched to branch 'master'

~/git_yer_git_on - [master] »

git log

git checkout 3b0b260f6

mvim README.md

git log

git checkout 5719bdd8

mvim README.md

git checkout master

commit 5719bdd819257b2ca64320529eed9c7bc6f4044a

Author: David Ketcheson <dketch@gmail.com>

Date: Mon Feb 27 11:15:11 2017 -0500

Starting the README.

I could put more information
in this message.

~/git_yer_git_on - [3b0b260...] » git checkout 5719bdd8

Previous HEAD position was 3b0b260... add to the readme.

HEAD is now at 5719bdd... Starting the README.

~/git_yer_git_on - [5719bdd...] » mvim README.md

~/git_yer_git_on - [5719bdd...] » git checkout master

Previous HEAD position was 5719bdd... Starting the README.

Switched to branch 'master'

~/git_yer_git_on - [master] » git checkout master

Already on 'master'

~/git_yer_git_on - [master] » mvim README.md

git log

git checkout 3b0b260f6

mvim README.md

git log

git checkout 5719bdd8

mvim README.md

git checkout master

commit 5719bdd819257b2ca64320529eed9c7bc6f4044a

Author: David Ketcheson <dketch@gmail.com>

Date: Mon Feb 27 11:15:11 2017 -0500

Starting the README.

I could put more information
in this message.

~/git_yer_git_on - [3b0b260...] » git checkout 5719bdd8

Previous HEAD position was 3b0b260... add to the readme.

HEAD is now at 5719bdd... Starting the README.

~/git_yer_git_on - [5719bdd...] » mvim README.md

~/git_yer_git_on - [5719bdd...] » git checkout master

Previous HEAD position was 5719bdd... Starting the README.

Switched to branch 'master'

~/git_yer_git_on - [master] » git checkout master

Already on 'master'

~/git_yer_git_on - [master] » mvim README.md

git log

git checkout 3b0b260f6

mvim README.md

git log

git checkout 5719bdd8

mvim README.md

git checkout master

Author: David Ketcheson <dketch@gmail.com>
Date: Mon Feb 27 11:15:11 2017 -0500

Starting the README.

I could put more information
in this message.

```
~/git_yer_git_on - [3b0b260...] » git  
Previous HEAD position was 3b0b260...  
HEAD is now at 5719bdd... Starting the  
~/git_yer_git_on - [5719bdd...] » mvim  
~/git_yer_git_on - [5719bdd...] » git  
Previous HEAD position was 5719bdd...  
Switched to branch 'master'  
~/git_yer_git_on - [master] » git check  
Already on 'master'  
~/git_yer_git_on - [master] » mvim REA  
~/git_yer_git_on - [master] »
```

```
git checkout 3b0b260f6  
mvim README.md  
git log  
git checkout 5719bdd8  
mvim README.md  
git checkout master  
mvim README.md
```

this is the amazing readme.
Here's some more information about my project.

README.md 3L, 76C

1,1

All

Author: David Ketcheson <dketch@gmail.com>
Date: Mon Feb 27 11:15:11 2017 -0500

Starting the README.

I could put more information
in this message.

```
~/git_yer_git_on - [3b0b260...] » git  
Previous HEAD position was 3b0b260...  
HEAD is now at 5719bdd... Starting the  
~/git_yer_git_on - [5719bdd...] » mvim  
~/git_yer_git_on - [5719bdd...] » git  
Previous HEAD position was 5719bdd...  
Switched to branch 'master'  
~/git_yer_git_on - [master] » git check  
Already on 'master'  
~/git_yer_git_on - [master] » mvim REA  
~/git_yer_git_on - [master] »
```

```
git checkout 3b0b260f6  
mvim README.md  
git log  
git checkout 5719bdd8  
mvim README.md  
git checkout master  
mvim README.md
```

this is the amazing readme.
Here's some more information about my project.

Author: David Ketcheson <dketch@gmail.com>
Date: Mon Feb 27 11:15:11 2017 -0500

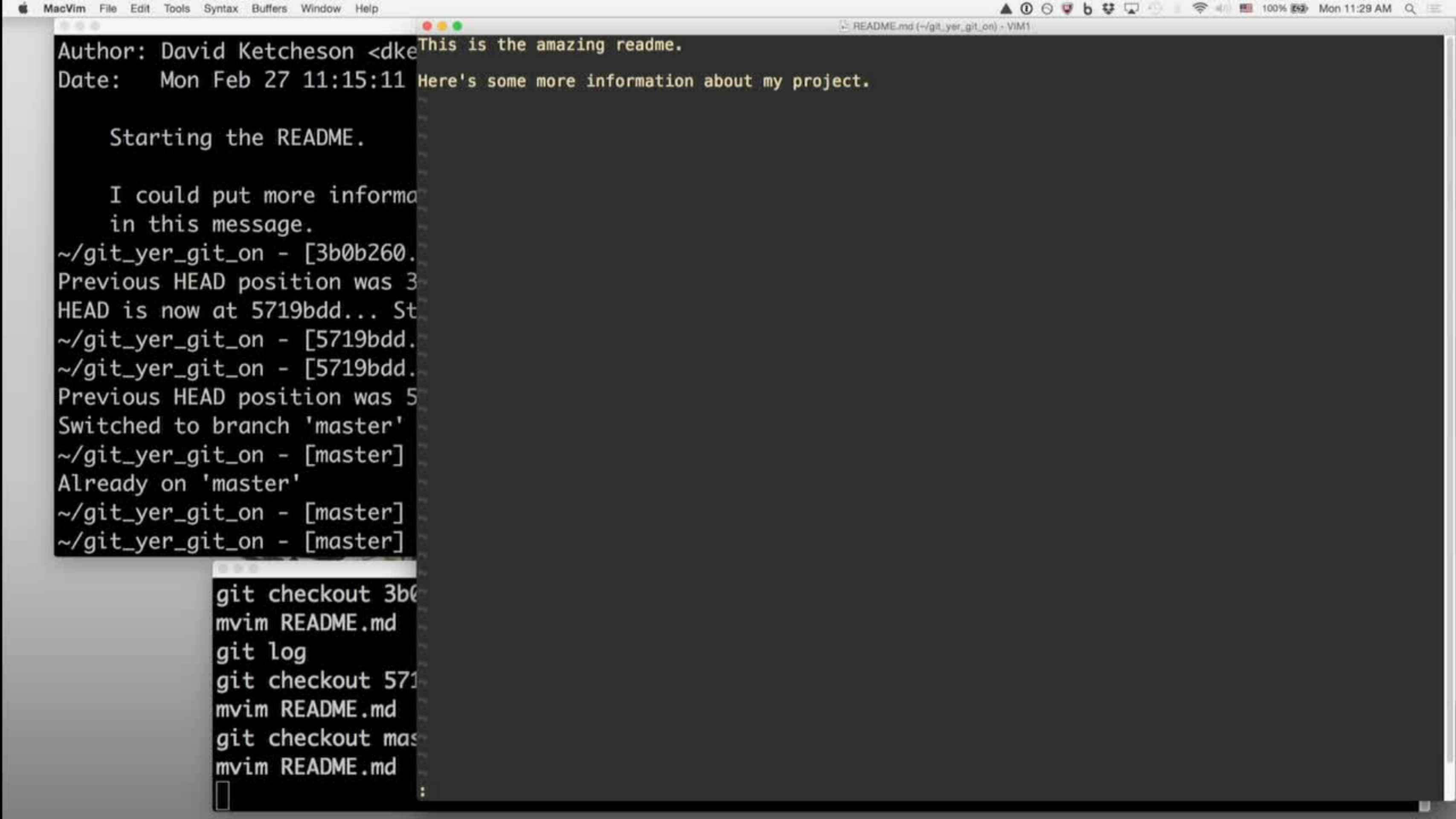
Starting the README.

I could put more information
in this message.

```
~/git_yer_git_on - [3b0b260...] » git  
Previous HEAD position was 3b0b260...  
HEAD is now at 5719bdd... Starting the  
~/git_yer_git_on - [5719bdd...] » mvim  
~/git_yer_git_on - [5719bdd...] » git  
Previous HEAD position was 5719bdd...  
Switched to branch 'master'  
~/git_yer_git_on - [master] » git check  
Already on 'master'  
~/git_yer_git_on - [master] » mvim REA  
~/git_yer_git_on - [master] »
```

```
git checkout 3b0b260f6  
mvim README.md  
git log  
git checkout 5719bdd8  
mvim README.md  
git checkout master  
mvim README.md  
█
```

This is the amazing readme.
Here's some more information about my project.



Author: David Ketcheson <dketch@gmail.com>
Date: Mon Feb 27 11:15:11 2017 -0500

Starting the README.

I could put more information
in this message.

```
~/git_yer_git_on - [3b0b260...] » git checkout 5719bdd8
Previous HEAD position was 3b0b260... add to the readme.
HEAD is now at 5719bdd... Starting the README.
~/git_yer_git_on - [5719bdd...] » mvim README.md
~/git_yer_git_on - [5719bdd...] » git checkout master
Previous HEAD position was 5719bdd... Starting the README.
Switched to branch 'master'
~/git_yer_git_on - [master] » git checkout master
Already on 'master'
~/git_yer_git_on - [master] » mvim README.md
~/git_yer_git_on - [master] » mvim
```

```
git checkout 3b0b260f6
mvim README.md
git log
git checkout 5719bdd8
mvim README.md
git checkout master
mvim README.md

```


Date: Mon Feb 27 11:15:11 2017 -0500

Starting the README.

I could put more information
in this message.

```
~/git_yer_git_on - [3b0b260...] » git checkout 5719bdd8  
Previous HEAD position was 3b0b260... add to the readme.  
HEAD is now at 5719bdd... Starting the README.
```

```
~/git_yer_git_on - [5719bdd...] » mvim README.md
```

```
~/git_yer_git_on - [5719bdd...] » git checkout master  
Previous HEAD position was 5719bdd... Starting the README.  
Switched to branch 'master'
```

```
~/git_yer_git_on - [master] » git checkout master  
Already on 'master'
```

```
~/git_yer_git_on - [master] » mvim README.md
```

```
~/git_yer_git_on - [master] » mvim README.md
```

```
~/git_yer_git_on - [master] »
```

```
git checkout 3b0b260f6
```

```
mvim README.md
```

```
git log
```

```
git checkout 5719bdd8
```

```
mvim README.md
```

```
git checkout master
```

```
mvim README.md
```

Date: Mon Feb 27 11:15:11 2017 -0500

Starting the README.

I could put more information
in this message.

```
~/git_yer_git_on - [3b0b260...] » git
Previous HEAD position was 3b0b260...
HEAD is now at 5719bdd... Starting the
~/git_yer_git_on - [5719bdd...] » mvim
~/git_yer_git_on - [5719bdd...] » git
Previous HEAD position was 5719bdd...
Switched to branch 'master'
~/git_yer_git_on - [master] » git chec
Already on 'master'
~/git_yer_git_on - [master] » mvim REA
~/git_yer_git_on - [master] » mvim REA
~/git_yer_git_on - [master] »
```

```
git checkout 3b0b260f6
mvim README.md
git log
git checkout 5719bdd8
mvim README.md
git checkout master
mvim README.md
```

This is the amazing readme.
Here's some more information about my project.
Some

— INSERT —

6,6

All

Date: Mon Feb 27 11:15:11 2017 -0500

Starting the README.

I could put more information
in this message.

```
~/git_yer_git_on - [3b0b260...] » git
Previous HEAD position was 3b0b260...
HEAD is now at 5719bdd... Starting the
~/git_yer_git_on - [5719bdd...] » mvim
~/git_yer_git_on - [5719bdd...] » git
Previous HEAD position was 5719bdd...
Switched to branch 'master'
~/git_yer_git_on - [master] » git chec
Already on 'master'
~/git_yer_git_on - [master] » mvim REA
~/git_yer_git_on - [master] » mvim REA
~/git_yer_git_on - [master] »
```

```
git checkout 3b0b260f6
mvim README.md
git log
git checkout 5719bdd8
mvim README.md
git checkout master
mvim README.md
```

This is the amazing readme.
Here's some more information about my project.
Some

— INSERT —

6,6 All

Date: Mon Feb 27 11:15:11 2017 -0500

Starting the README.

I could put more information
in this message.

```
~/git_yer_git_on - [3b0b260...] » git
Previous HEAD position was 3b0b260...
HEAD is now at 5719bdd... Starting the
~/git_yer_git_on - [5719bdd...] » mvim
~/git_yer_git_on - [5719bdd...] » git
Previous HEAD position was 5719bdd...
Switched to branch 'master'
~/git_yer_git_on - [master] » git chec
Already on 'master'
~/git_yer_git_on - [master] » mvim REA
~/git_yer_git_on - [master] » mvim REA
~/git_yer_git_on - [master] »
```

```
git checkout 3b0b260f6
mvim README.md
git log
git checkout 5719bdd8
mvim README.md
git checkout master
mvim README.md
```

This is the amazing readme.
Here's some more information about my project.
Some |

— INSERT —

6,6

All

Date: Mon Feb 27 11:15:11 2017 -0500

Starting the README.

I could put more information
in this message.

```
~/git_yer_git_on - [3b0b260...] » git
Previous HEAD position was 3b0b260...
HEAD is now at 5719bdd... Starting the
~/git_yer_git_on - [5719bdd...] » mvim
~/git_yer_git_on - [5719bdd...] » git
Previous HEAD position was 5719bdd...
Switched to branch 'master'
~/git_yer_git_on - [master] » git chec
Already on 'master'
~/git_yer_git_on - [master] » mvim REA
~/git_yer_git_on - [master] » mvim REA
~/git_yer_git_on - [master] »
```

```
git checkout 3b0b260f6
mvim README.md
git log
git checkout 5719bdd8
mvim README.md
git checkout master
mvim README.md
```

This is the amazing readme.

Here's some more information about my project.

Some |

--- INSERT ---

6,6

ALL

Date: Mon Feb 27 11:15:11

Starting the README.

I could put more information
in this message.

~/git_yer_git_on - [3b0b260]

Previous HEAD position was 3b0b260

HEAD is now at 5719bdd... St

~/git_yer_git_on - [5719bdd]

~/git_yer_git_on - [5719bdd]

Previous HEAD position was 5719bdd

Switched to branch 'master'

~/git_yer_git_on - [master]

Already on 'master'

~/git_yer_git_on - [master]

~/git_yer_git_on - [master]

~/git_yer_git_on - [master]

This is the incredible readme.

Here's some more information about my project.

Some more information.

Lots of great stuff.

git checkout 3b0b260

mvim README.md

git log

git checkout 5719bdd

mvim README.md

git checkout mas

mvim README.md

:wq

Date: Mon Feb 27 11:15:11 2017 -0500

Starting the README.

I could put more information
in this message.

```
~/git_yer_git_on - [3b0b260...] » git checkout 5719bdd8  
Previous HEAD position was 3b0b260... add to the readme.  
HEAD is now at 5719bdd... Starting the README.
```

```
~/git_yer_git_on - [5719bdd...] » mvim README.md
```

```
~/git_yer_git_on - [5719bdd...] » git checkout master  
Previous HEAD position was 5719bdd... Starting the README.  
Switched to branch 'master'
```

```
~/git_yer_git_on - [master] » git checkout master  
Already on 'master'
```

```
~/git_yer_git_on - [master] » mvim README.md
```

```
~/git_yer_git_on - [master] » mvim README.md
```

```
~/git_yer_git_on - [master] » git add README.md
```

```
git checkout 3b0b260f6
```

```
mvim README.md
```

```
git log
```

```
git checkout 5719bdd8
```

```
mvim README.md
```

```
git checkout master
```

```
mvim README.md
```

Starting the README.

I could put more information
in this message.

```
~/git_yer_git_on - [3b0b260...] » git checkout 5719bdd8
```

Previous HEAD position was 3b0b260... add to the readme.

HEAD is now at 5719bdd... Starting the README.

```
~/git_yer_git_on - [5719bdd...] » mvim README.md
```

```
~/git_yer_git_on - [5719bdd...] » git checkout master
```

Previous HEAD position was 5719bdd... Starting the README.

Switched to branch 'master'

```
~/git_yer_git_on - [master] » git checkout master
```

Already on 'master'

```
~/git_yer_git_on - [master] » mvim README.md
```

```
~/git_yer_git_on - [master] » mvim README.md
```

```
~/git_yer_git_on - [master] » git add README.md
```

```
~/git_yer_git_on - [master•] » git st
```

```
mvim README.md
```

```
git log
```

```
git checkout 5719bdd8
```

```
mvim README.md
```

```
git checkout master
```

```
mvim README.md
```

```
git add README.md
```



```
HEAD is now at 5719bdd... Starting the README.
~/git_yer_git_on - [5719bdd...] » mvim README.md
~/git_yer_git_on - [5719bdd...] » git checkout master
Previous HEAD position was 5719bdd... Starting the README.
Switched to branch 'master'
~/git_yer_git_on - [master] » git checkout master
Already on 'master'
~/git_yer_git_on - [master] » mvim README.md
~/git_yer_git_on - [master] » mvim README.md
~/git_yer_git_on - [master] » git add README.md
~/git_yer_git_on - [master•] » git status

On branch master
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

    modified:   README.md

~/git_yer_git_on - [master•] » git reset HEAD README.md
```

```
git log
git checkout 5719bdd8
mvim README.md
git checkout master
mvim README.md
git add README.md
git status
```

```
Previous HEAD position was 5719bdd... Starting the README.
Switched to branch 'master'
~/git_yer_git_on - [master] » git checkout master
Already on 'master'
~/git_yer_git_on - [master] » mvim README.md
~/git_yer_git_on - [master] » mvim README.md
~/git_yer_git_on - [master] » git add README.md
~/git_yer_git_on - [master•] » git status
On branch master
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)
```

```
    modified:   README.md
```

```
~/git_yer_git_on - [master•] » git reset HEAD README.md
Unstaged changes after reset:
M      README.md
~/git_yer_git_on - [master•] » git add -p README.md
```

```
git checkout 5719bdd8
mvim README.md
git checkout master
mvim README.md
git add README.md
git status
git reset HEAD README.md
```


~/git_yer_git_on - [master●] » `git reset HEAD README.md`

Unstaged changes after reset:

M README.md

~/git_yer_git_on - [master●] » `git add -p README.md`

`diff --git a/README.md b/README.md`

`index e2d144c..defbe32 100644`

`--- a/README.md`

`+++ b/README.md`

`@@ -1,3 +1,7 @@`

`-This is the amazing readme.`

`+This is the incredible readme.`

`Here's some more information about my project.`

`+`

`+`

`+Some more information.`

`+Lots of great stuff.`

`Stage this hunk [y,n,q,a,d,/,s,e,?]?`

`mvim README.md`

`git checkout master`

`mvim README.md`

`git add README.md`

`git status`

`git reset HEAD README.md`

`git add -p README.md`

```
~/git_yer_git_on - [master•] » git reset HEAD README.md
Unstaged changes after reset:
M      README.md
~/git_yer_git_on - [master•] » git add -p README.md
diff --git a/README.md b/README.md
index e2d144c..defbe32 100644
--- a/README.md
+++ b/README.md
@@ -1,3 +1,7 @@
-This is the amazing readme.
+This is the incredible readme.

Here's some more information about my project.
+
+
+Some more information.
+Lots of great stuff.
Stage this hunk [y,n,q,a,d,/,s,e,?]?
```

```
mvim README.md
git checkout master
mvim README.md
git add README.md
git status
git reset HEAD README.md
git add -p README.md
```


~/git_yer_git_on - [master•] » git reset HEAD README.md

Unstaged changes after reset:

M README.md

~/git_yer_git_on - [master•] » git add -p README.md

diff --git a/README.md b/README.md

index e2d144c..defbe32 100644

--- a/README.md

+++ b/README.md

@@ -1,3 +1,7 @@

-This is the amazing readme.

+This is the incredible readme.

Here's some more information about my project.

+

+

+Some more information.

+Lots of great stuff.

Stage this hunk [y,n,q,a,d,/,s,e,?]?

```

mvim README.md
git checkout master
mvim README.md
git add README.md
git status
git reset HEAD README.md
git add -p README.md

```

```
~/git_yer_git_on - [master•] » git reset HEAD README.md
Unstaged changes after reset:
M      README.md
~/git_yer_git_on - [master•] » git add -p README.md
diff --git a/README.md b/README.md
index e2d144c..defbe32 100644
--- a/README.md
+++ b/README.md
@@ -1,3 +1,7 @@
-This is the amazing readme.
+This is the incredible readme.
```

```
Here's some more information about my project.
+
+
+Some more information.
+Lots of great stuff.
Stage this hunk [y,n,q,a,d,/,s,e,?]?
```

```
mvim README.md
git checkout master
mvim README.md
git add README.md
git status
git reset HEAD README.md
git add -p README.md
```


~/git_yer_git_on - [master•] » `git reset HEAD README.md`

Unstaged changes after reset:

M README.md

~/git_yer_git_on - [master•] » `git add -p README.md`

`diff --git a/README.md b/README.md`

`index e2d144c..defbe32 100644`

`--- a/README.md`

`+++ b/README.md`

`@@ -1,3 +1,7 @@`

`-This is the amazing readme.`

`+This is the incredible readme.`

Here's some more information about my project.

+

+

+Some more information.

+Lots of great stuff.

Stage this hunk [y,n,q,a,d,/,s,e,?]? ☐

`mvim README.md`

`git checkout master`

`mvim README.md`

`git add README.md`

`git status`

`git reset HEAD README.md`

`git add -p README.md`

☐

Stage this hunk [y,n,q,a,d,/,s,e,?]? ?

y - stage this hunk

n - do not stage this hunk

q - quit; do not stage this hunk or any of the remaining ones

a - stage this hunk and all later hunks in the file

d - do not stage this hunk or any of the later hunks in the file

g - select a hunk to go to

/ - search for a hunk matching the given regex

j - leave this hunk undecided, see next undecided hunk

J - leave this hunk undecided, see next hunk

k - leave this hunk undecided, see previous undecided hunk

K - leave this hunk undecided, see previous hunk

s - split the current hunk into smaller hunks

e - manually edit the current hunk

? - print help

@@ -1,3 +1,7 @@

-This is the amazing readme.

+This is the incredible readme.

```
mvim README.md
```

```
git checkout master
```

```
mvim README.md
```

```
git add README.md
```

```
git status
```

```
git reset HEAD README.md
```

```
git add -p README.md
```


Stage this hunk [y,n,q,a,d,/,s,e,?]? ?

y - stage this hunk

n - do not stage this hunk

q - quit; do not stage this hunk or any of the remaining ones

a - stage this hunk and all later hunks in the file

d - do not stage this hunk or any of the later hunks in the file

g - select a hunk to go to

/ - search for a hunk matching the given regex

j - leave this hunk undecided, see next undecided hunk

J - leave this hunk undecided, see next hunk

k - leave this hunk undecided, see previous undecided hunk

K - leave this hunk undecided, see previous hunk

s - split the current hunk into smaller hunks

e - manually edit the current hunk

? - print help

@@ -1,3 +1,7 @@

-This is the amazing readme.

+This is the incredible readme.

```
mvim README.md
```

```
git checkout master
```

```
mvim README.md
```

```
git add README.md
```

```
git status
```

```
git reset HEAD README.md
```

```
git add -p README.md
```

Stage this hunk [y,n,q,a,d,/,s,e,?]? ?

y - stage this hunk

n - do not stage this hunk

q - quit; do not stage this hunk or any of the remaining ones

a - stage this hunk and all later hunks in the file

d - do not stage this hunk or any of the later hunks in the file

g - select a hunk to go to

/ - search for a hunk matching the given regex

j - leave this hunk undecided, see next undecided hunk

J - leave this hunk undecided, see next hunk

k - leave this hunk undecided, see previous undecided hunk

K - leave this hunk undecided, see previous hunk

s - split the current hunk into smaller hunks

e - manually edit the current hunk

? - print help

@@ -1,3 +1,7 @@

-This is the amazing readme.

+This is the incredible readme.

```
mvim README.md
```

```
git checkout master
```

```
mvim README.md
```

```
git add README.md
```

```
git status
```

```
git reset HEAD README.md
```

```
git add -p README.md
```


q - quit; do not stage this hunk or any of the remaining ones
a - stage this hunk and all later hunks in the file
d - do not stage this hunk or any of the later hunks in the file
g - select a hunk to go to
/ - search for a hunk matching the given regex
j - leave this hunk undecided, see next undecided hunk
J - leave this hunk undecided, see next hunk
k - leave this hunk undecided, see previous undecided hunk
K - leave this hunk undecided, see previous hunk
s - split the current hunk into smaller hunks
e - manually edit the current hunk
? - print help
@@ -1,3 +1,7 @@
-This is the amazing readme.
+This is the incredible readme.

Here's some more information about my project.
+

```
mvim README.md
git checkout master
mvim README.md
git add README.md
git status
git reset HEAD README.md
git add -p README.md
```

/ - search for a hunk matching the given regex
j - leave this hunk undecided, see next undecided hunk
J - leave this hunk undecided, see next hunk
k - leave this hunk undecided, see previous undecided hunk
K - leave this hunk undecided, see previous hunk
s - split the current hunk into smaller hunks

e - manually edit the current hunk

? - print help

@@ -1,3 +1,7 @@

-This is the amazing readme.

+This is the incredible readme.

Here's some more information about my project.

+

+

+Some more information.

+Lots of great stuff.

Stage this hunk [y,n,q,a,d,/,s,e,?]? █

```
mvim README.md
git checkout master
mvim README.md
git add README.md
git status
git reset HEAD README.md
git add -p README.md
█
```


/ - search for a hunk matching the given regex
j - leave this hunk undecided, see next undecided hunk
J - leave this hunk undecided, see next hunk
k - leave this hunk undecided, see previous undecided hunk
K - leave this hunk undecided, see previous hunk
s - split the current hunk into smaller hunks
e - manually edit the current hunk
? - print help

@@ -1,3 +1,7 @@

-This is the amazing readme.

+This is the incredible readme.

Here's some more information about my project.

+

+

+Some more information.

+Lots of great stuff.

Stage this hunk [y,n,q,a,d,/,s,e,?]?

```
mvim README.md
git checkout master
mvim README.md
git add README.md
git status
git reset HEAD README.md
git add -p README.md

```

5. git (git)

- / - search for a hunk matching the given regex
- j - leave this hunk undecided, see next undecided hunk
- J - leave this hunk undecided, see next hunk
- k - leave this hunk undecided, see previous undecided hunk
- K - leave this hunk undecided, see previous hunk
- s - split the current hunk into smaller hunks

- e - manually edit the current hunk
- ? - print help

@@ -1,3 +1,7 @@

-This is the amazing readme.

+This is the incredible readme.

Here's some more information about my project.

+

+

+Some more information.

+Lots of great stuff.

Stage this hunk [y,n,q,a,d,/,s,e,?]?

```
mvim README.md
git checkout master
mvim README.md
git add README.md
git status
git reset HEAD README.md
git add -p README.md
```


? - print help

@@ -1,3 +1,7 @@

-This is the amazing readme.

+This is the incredible readme.

Here's some more information about my project.

+

+

+Some more information.

+Lots of great stuff.

Stage this hunk [y,n,q,a,d,/,s,e,?]? s

Split into 2 hunks.

@@ -1,3 +1,3 @@

-This is the amazing readme.

+This is the incredible readme. |

Here's some more information about my project.

Stage this hunk [y,n,q,a,d,/,j,J,g,e,?]? █

```
mvim README.md
```

```
git checkout master
```

```
mvim README.md
```

```
git add README.md
```

```
git status
```

```
git reset HEAD README.md
```

```
git add -p README.md
```

```
█
```

```
? - print help
@@ -1,3 +1,7 @@
-This is the amazing readme.
+This is the incredible readme.

Here's some more information about my project.
+
+
+Some more information.
+Lots of great stuff.
Stage this hunk [y,n,q,a,d,/,s,e,?]? s
Split into 2 hunks.
@@ -1,3 +1,3 @@
-This is the amazing readme.
+This is the incredible readme.

Here's some more information about my project.
Stage this hunk [y,n,q,a,d,/,j,J,g,e,?]? 
```

```
mvim README.md
git checkout master
mvim README.md
git add README.md
git status
git reset HEAD README.md
git add -p README.md
```


+Some more information.

+Lots of great stuff.

Stage this hunk [y,n,q,a,d,/,K,g,e,?]? n

~/git_yer_git_on - [master●●] » git status

On branch master

Changes to be committed:

(use "git reset HEAD <file>..." to unstage)

modified: README.md

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git checkout -- <file>..." to discard changes in working directory)

modified: README.md

~/git_yer_git_on - [master●●] » mvim README.md

```
git checkout master
mvim README.md
git add README.md
git status
git reset HEAD README.md
git add -p README.md
git status
```

```
+Lots of great stuff.  
Stage this hunk [y,n,q,a,d,/,K,g,e,?]
```

```
~/git_yer_git_on - [master●●] » git st  
On branch master  
Changes to be committed:  
  (use "git reset HEAD <file>..." to u
```

```
    modified:   README.md
```

```
Changes not staged for commit:  
  (use "git add <file>..." to update w  
  (use "git checkout -- <file>..." to
```

```
    modified:   README.md
```

```
~/git_yer_git_on - [master●●] » mvim R  
~/git_yer_git_on - [master●●] »
```

```
this is the incredible readme.  
Here's some more information about my project.  
  
Some more information.  
Lots of great stuff.
```

```
mvim README.md  
git add README.md  
git status  
git reset HEAD README.md  
git add -p README.md  
git status  
mvim README.md
```

README.md 7L, 125C

1,1

All


```
+Lots of great stuff.
Stage this hunk [y,n,q,a,d,/,K,g,e,?]?

~/git_yer_git_on - [master●●] » git st
On branch master
Changes to be committed:
  (use "git reset HEAD <file>..." to u

    modified:   README.md

Changes not staged for commit:
  (use "git add <file>..." to update w
  (use "git checkout -- <file>..." to

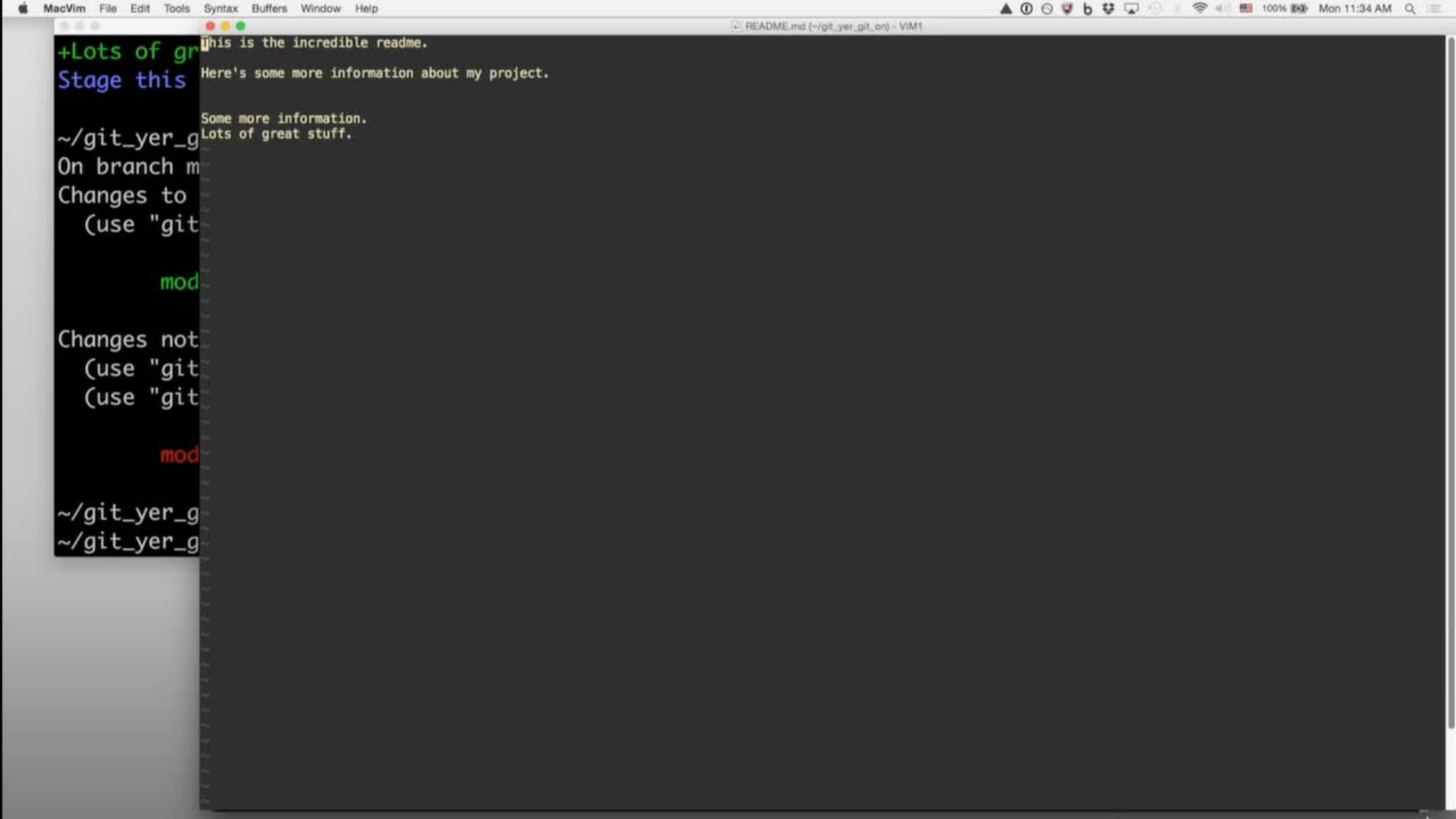
    modified:   README.md

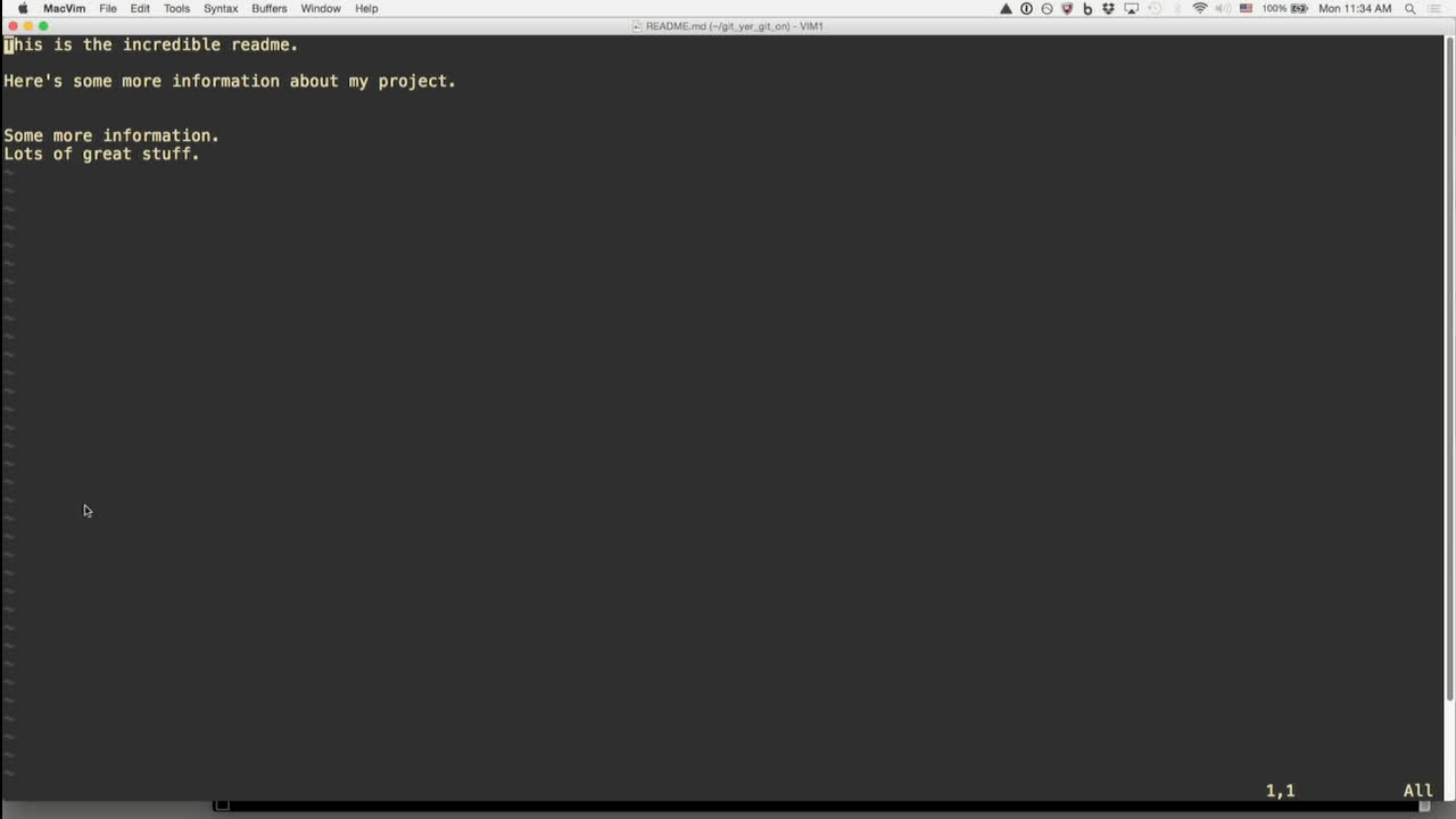
~/git_yer_git_on - [master●●] » mvim R
~/git_yer_git_on - [master●●] »
```

```
mvim README.md
git add README.md
git status
git reset HEAD README.md
git add -p README.md
git status
mvim README.md
```

```
this is the incredible readme.
Here's some more information about my project.

Some more information.
Lots of great stuff.
```





This is the incredible readme.

Here's some more information about my project.

Some more information.
Lots of great stuff.

```
+Lots of great stuff.
Stage this hunk [y,n,q,a,d,/,K,g,e,?]? n

~/git_yer_git_on - [master●●] » git status
On branch master
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

    modified:   README.md

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

    modified:   README.md

~/git_yer_git_on - [master●●] » mvim README.md
~/git_yer_git_on - [master●●] »
```

```
mvim README.md
git add README.md
git status
git reset HEAD README.md
git add -p README.md
git status
mvim README.md
```

```
This is the incredible readme.

Here's some more information about my project.

Some more information.
Lots of great stuff.
```


+Lots of great stuff.

Stage this hunk [y,n,q,a,d,/,K,g,e,?]? n

~/git_yer_git_on - [master●●] » git status

On branch master

Changes to be committed:

(use "git reset HEAD <file>..." to unstage)

modified: README.md

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git checkout -- <file>..." to discard changes in working directory)

modified: README.md

~/git_yer_git_on - [master●●] » mvim README.md

~/git_yer_git_on - [master●●] » git commit -m "Change first line of readme"

mvim README.md

git add README.md

git status

git reset HEAD README.md

git add -p README.md

git status

mvim README.md

```
~/git_yer_git_on - [master●●] » git status
```

```
On branch master
```

```
Changes to be committed:
```

```
(use "git reset HEAD <file>..." to unstage)
```

```
    modified:   README.md
```

```
Changes not staged for commit:
```

```
(use "git add <file>..." to update what will be committed)
```

```
(use "git checkout -- <file>..." to discard changes in working directory)
```

```
    modified:   README.md
```

```
~/git_yer_git_on - [master●●] » mvim README.md
```

```
~/git_yer_git_on - [master●●] » git commit -m "Change first line of readme"
```

```
[master f1c2f3c] Change first line of readme
```

```
1 file changed, 1 insertion(+), 1 deletion(-)
```

```
~/git_yer_git_on - [master●] » git statu
```

```
git add README.md
```

```
git status
```

```
git reset HEAD README.md
```

```
git add -p README.md
```

```
git status
```

```
mvim README.md
```

```
git commit -m "Change first line
```



```
~/git_yer_git_on - [master●] » git diff
diff --git a/README.md b/README.md
index a6eec96..defbe32 100644
--- a/README.md
+++ b/README.md
@@ -1,3 +1,7 @@
 This is the incredible readme.

Here's some more information about my project.
+
+
+Some more information.
+Lots of great stuff.
~/git_yer_git_on - [master●] » git checkout README.md
~/git_yer_git_on - [master●] » git status
```

```
git reset HEAD README.md
git add -p README.md
git status
mvim README.md
git commit -m "Change first line"
git status
git diff
```

This is the incredible readme.

Here's some more information about my project.

+

+

+Some more information.

+Lots of great stuff.

~/git_yer_git_on - [master●] » `git checkout README.md`

~/git_yer_git_on - [master●] » `git status`

On branch master

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git checkout -- <file>..." to discard changes in working directory)

modified: README.md

no changes added to commit (use "git add" and/or "git commit -a")

~/git_yer_git_on - [master●] » `git add README.md`

`git add -p README.md`

`git status`

`mvim README.md`

`git commit -m "Change first line"`

`git status`

`git diff`

`git status`

Here's some more information about my project.

+

+

+Some more information.

+Lots of great stuff.

~/git_yer_git_on - [master●] » **git** checkout README.md

~/git_yer_git_on - [master●] » **git** status

On branch master

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git checkout -- <file>..." to discard changes in working directory)

modified: README.md

no changes added to commit (use "git add" and/or "git commit -a")

~/git_yer_git_on - [master●] » **git** add README.md

~/git_yer_git_on - [master●] » **git** diff

git status

mvim README.md

git commit -m "Change first line"

git status

git diff

git status

git add README.md

Here's some more information about my project.

+
+

+Some more information.
+Lots of great stuff.

~/git_yer_git_on - [master●] » git checkout README.md

~/git_yer_git_on - [master●] » git status

On branch master

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)
(use "git checkout -- <file>..." to discard changes in working directory)

modified: README.md

no changes added to commit (use "git add" and/or "git commit -a")

~/git_yer_git_on - [master●] » git add README.md

~/git_yer_git_on - [master●] » git diff

~/git_yer_git_on - [master●] » git diff --cached

```
mvim README.md
git commit -m "Change first line"
git status
git diff
git status
git add README.md
git diff
```


no changes added to commit (use "git add" and/or "git commit -a")

~/git_yer_git_on - [master●] » git add README.md

~/git_yer_git_on - [master●] » git diff

~/git_yer_git_on - [master●] » git diff --cached

diff --git a/README.md b/README.md

index a6eec96..defbe32 100644

--- a/README.md

+++ b/README.md

@@ -1,3 +1,7 @@

This is the incredible readme.

Here's some more information about my project.

+

+

+Some more information.

+Lots of great stuff.

~/git_yer_git_on - [master●] » git commit

git commit -m "Change first line"

git status

git diff

git status

git add README.md

git diff

git diff --cached

```
5: git (git)
Add 4 new lines.
# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.
# On branch master
# Changes to be committed:
#   modified:   README.md
#
```

```
git status
git diff
git status
git add README.md
git diff
git diff --cached
git commit
```



```
~/git_yer_git_on - [master•] » git diff
~/git_yer_git_on - [master•] » git diff --cached
diff --git a/README.md b/README.md
index a6eec96..defbe32 100644
--- a/README.md
+++ b/README.md
@@ -1,3 +1,7 @@
 This is the incredible readme.

Here's some more information about my project.
+
+
+Some more information.
+Lots of great stuff.
~/git_yer_git_on - [master•] » git commit
[master 3fe553a] Add 4 new lines.
1 file changed, 4 insertions(+)
~/git_yer_git_on - [master] » mvim README.md
```

```
git status
git diff
git status
git add README.md
git diff
git diff --cached
git commit
```

```
~/git_yer_git_on - [master•] » git diff --cached
diff --git a/README.md b/README.md
index a6eec96..defbe32 100644
--- a/README.md
+++ b/README.md
@@ -1,3 +1,7 @@
 This is the incredible readme.

 Here's some more information about my project.
+
+
+Some more information.
+Lots of great stuff.
~/git_yer_git_on - [master•] » git commit
[master 3fe553a] Add 4 new lines.
1 file changed, 4 insertions(+)
~/git_yer_git_on - [master] » mvim README.md
~/git_yer_git_on - [master] »
```

```
git diff
git status
git add README.md
git diff
git diff --cached
git commit
mvim README.md
```



```
~/git_yer_git_on - [master•] » git diff --cached  
diff --git a/README.md b/README.md  
index a6eec96..defbe32 100644
```

```
--- a/README.md
```

```
+++ b/README.md
```

```
@@ -1,3 +1,7 @@
```

```
This is the incredible readme.
```

```
Here's some more information about my project
```

```
+
```

```
+
```

```
+Some more information.
```

```
+Lots of great stuff.
```

```
~/git_yer_git_on - [master•] » git commit
```

```
[master 3fe553a] Add 4 new lines.
```

```
1 file changed, 4 insertions(+)
```

```
~/git_yer_git_on - [master] » mvim README.md
```

```
~/git_yer_git_on - [master] »
```

```
git diff
```

```
git status
```

```
git add README.md
```

```
git diff
```

```
git diff --cached
```

```
git commit
```

```
mvim README.md
```



VIM - ATTENTION

Swap file "~/vim/tmp/README.md.swap" already exists!

Abort

Quit

Recover

Edit anyway

Open Read-Only

WARNING

Found a swap file by the name "~/vim/tmp/README.md.swap"

owned by: ketch dated: Mon Feb 27 11:34:50 2017

file name: ~/ketch/git_yer_git_on/README.md

modified: no

user name: ketch host name: kl-14845

process ID: 28716 (still running)

While opening file "README.md"

dated: Mon Feb 27 11:30:20 2017

(1) Another program may be editing the same file. If this is the case, be careful not to end up with two different instances of the same file when making changes. Quit, or continue with caution.

(2) An edit session for this file crashed.

If this is the case, use ":recover" or "vim -r README.md"

to recover the changes (see ":help recovery").

If you did this already, delete the swap file "~/Users/ketch/.vim/tmp/README.md.swap"

to avoid this message.

```
~/git_yer_git_on - [master•] » git diff --cached
diff --git a/README.md b/README.md
index a6eec96..defbe32 100644
--- a/README.md
+++ b/README.md
@@ -1,3 +1,7 @@
 This is the incredible readme.

 Here's some more information about my project.
+
+
+Some more information.
+Lots of great stuff.
~/git_yer_git_on - [master•] » git commit
[master 3fe553a] Add 4 new lines.
1 file changed, 4 insertions(+)
~/git_yer_git_on - [master] » mvim README.md
~/git_yer_git_on - [master] »
```

```
git diff
git status
git add README.md
git diff
git diff --cached
git commit
mvim README.md
```

This is the incredible readme.

Here's some more information about my project.

Some more information.
Lots of great stuff.


```
index a6eec96..defbe32 100644
--- a/README.md
+++ b/README.md
@@ -1,3 +1,7 @@
  This is the incredible readme.

  Here's some more information about my project.
+
+
+Some more information.
+Lots of great stuff.
~/git_yer_git_on - [master•] » git commit
[master 3fe553a] Add 4 new lines.
 1 file changed, 4 insertions(+)
~/git_yer_git_on - [master] » mvim README.md
~/git_yer_git_on - [master] » git HEAD~1
git: 'HEAD~1' is not a git command. See 'git --help'.
~/git_yer_git_on - [master] » git checkout HEAD~1
```

```
git status
git add README.md
git diff
git diff --cached
git commit
mvim README.md
git HEAD~1
```

```
1 file changed, 4 insertions(+)  
~/git_yer_git_on - [master] » mvim README.md  
~/git_yer_git_on - [master] » git HEAD~1  
git: 'HEAD~1' is not a git command. See 'git --help'.  
~/git_yer_git_on - [master] » git checkout HEAD~1  
Note: checking out 'HEAD~1'.
```

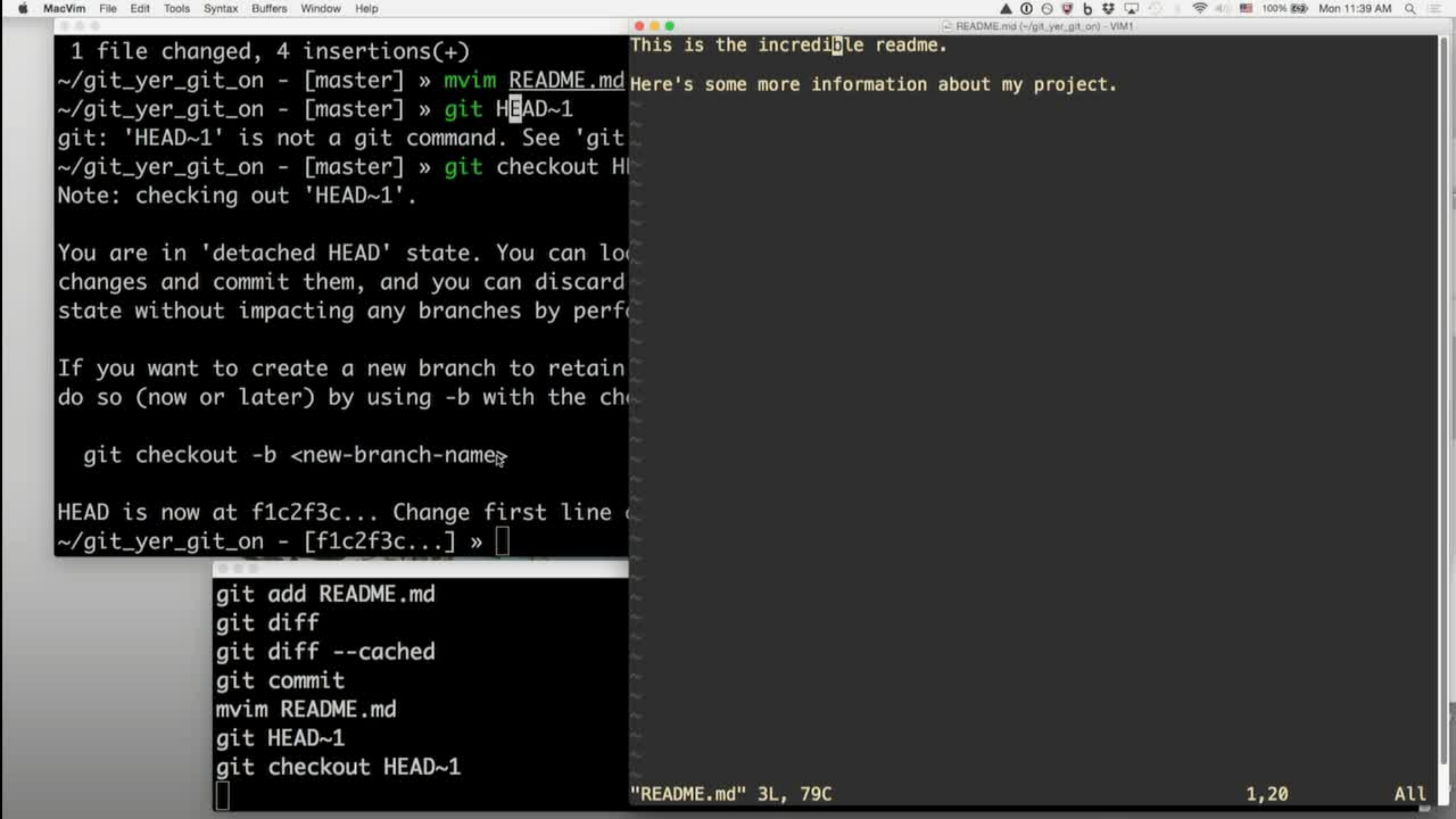
You are in 'detached HEAD' state. You can look around, make experimental changes and commit them, and you can discard any commits you make in this state without impacting any branches by performing another checkout.

If you want to create a new branch to retain commits you create, you may do so (now or later) by using `-b` with the checkout command again. Example:

```
git checkout -b <new-branch-name>
```

```
HEAD is now at f1c2f3c... Change first line of readme  
~/git_yer_git_on - [f1c2f3c...] »
```

```
git add README.md  
git diff  
git diff --cached  
git commit  
mvim README.md  
git HEAD~1  
git checkout HEAD~1
```

```
1 file changed, 4 insertions(+)  
~/git_yer_git_on - [master] » mvim README.md  
~/git_yer_git_on - [master] » git HEAD~1  
git: 'HEAD~1' is not a git command. See 'git --help'.  
~/git_yer_git_on - [master] » git checkout HEAD~1  
Note: checking out 'HEAD~1'.
```

You are in 'detached HEAD' state. You can look around, make experimental changes and commit them, and you can discard any commits you make in this state without impacting any branches by performing another checkout.

If you want to create a new branch to retain commits you create, you may do so (now or later) by using -b with the checkout command again. Example:

```
git checkout -b <new-branch-name>
```

```
HEAD is now at f1c2f3c... Change first line of readme  
~/git_yer_git_on - [f1c2f3c...] » git checkout master
```

```
git add README.md  
git diff  
git diff --cached  
git commit  
mvim README.md  
git HEAD~1  
git checkout HEAD~1
```


git: 'HEAD~1' is not a git command. See 'git --help'.

~/git_yer_git_on - [master] » `git checkout HEAD~1`

Note: checking out 'HEAD~1'.

You are in 'detached HEAD' state. You can look around, make experimental changes and commit them, and you can discard any commits you make in this state without impacting any branches by performing another checkout.

If you want to create a new branch to retain commits you create, you may do so (now or later) by using `-b` with the checkout command again. Example:

```
git checkout -b <new-branch-name>
```

HEAD is now at f1c2f3c... Change first line of readme

~/git_yer_git_on - [f1c2f3c...] » `git checkout master`

Previous HEAD position was f1c2f3c... Change first line of readme

Switched to branch 'master'

~/git_yer_git_on - [master] »

```
git diff
```

```
git diff --cached
```

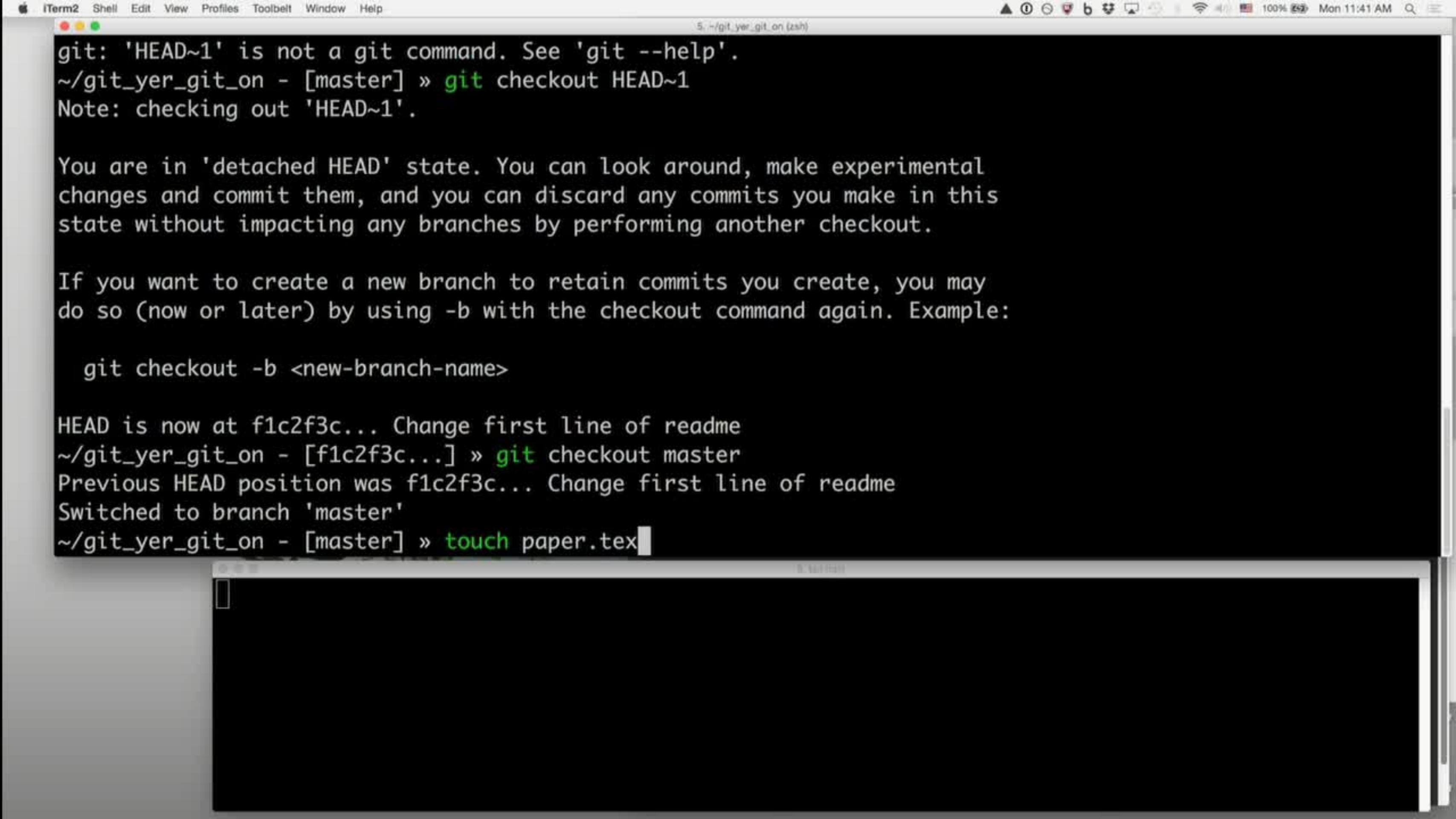
```
git commit
```

```
mvim README.md
```

```
git HEAD~1
```

```
git checkout HEAD~1
```

```
git checkout master
```



git: 'HEAD~1' is not a git command. See 'git --help'.

~/git_yer_git_on - [master] » git checkout HEAD~1

Note: checking out 'HEAD~1'.

You are in 'detached HEAD' state. You can look around, make experimental changes and commit them, and you can discard any commits you make in this state without impacting any branches by performing another checkout.

If you want to create a new branch to retain commits you create, you may do so (now or later) by using -b with the checkout command again. Example:

```
git checkout -b <new-branch-name>
```

HEAD is now at f1c2f3c... Change first line of readme

~/git_yer_git_on - [f1c2f3c...] » git checkout master

Previous HEAD position was f1c2f3c... Change first line of readme

Switched to branch 'master'

~/git_yer_git_on - [master] » touch paper.tex


```
~/git_yer_git_on - [master] » git checkout HEAD~1
```

Note: checking out 'HEAD~1'.

You are in 'detached HEAD' state. You can look around, make experimental changes and commit them, and you can discard any commits you make in this state without impacting any branches by performing another checkout.

If you want to create a new branch to retain commits you create, you may do so (now or later) by using `-b` with the checkout command again. Example:

```
git checkout -b <new-branch-name>
```

HEAD is now at f1c2f3c... Change first line of readme

```
~/git_yer_git_on - [f1c2f3c...] » git checkout master
```

Previous HEAD position was f1c2f3c... Change first line of readme

Switched to branch 'master'

```
~/git_yer_git_on - [master] » touch paper.tex
```

```
~/git_yer_git_on - [master] » touch paper.aux
```

```
touch paper.tex
```

Note: checking out 'HEAD~1'.

You are in 'detached HEAD' state. You can look around, make experimental changes and commit them, and you can discard any commits you make in this state without impacting any branches by performing another checkout.

If you want to create a new branch to retain commits you create, you may do so (now or later) by using -b with the checkout command again. Example:

```
git checkout -b <new-branch-name>
```

HEAD is now at f1c2f3c... Change first line of readme

```
~/git_yer_git_on - [f1c2f3c...] » git checkout master
```

Previous HEAD position was f1c2f3c... Change first line of readme

Switched to branch 'master'

```
~/git_yer_git_on - [master] » touch paper.tex
```

```
~/git_yer_git_on - [master•] » touch paper.aux
```

```
~/git_yer_git_on - [master•] » git status
```

```
touch paper.tex
```

```
touch paper.aux
```



```
git checkout -b <new-branch-name>
```

```
HEAD is now at f1c2f3c... Change first line of readme
```

```
~/git_yer_git_on - [f1c2f3c...] » git checkout master
```

```
Previous HEAD position was f1c2f3c... Change first line of readme
```

```
Switched to branch 'master'
```

```
~/git_yer_git_on - [master] » touch paper.tex
```

```
~/git_yer_git_on - [master•] » touch paper.aux
```

```
~/git_yer_git_on - [master•] » git status
```

```
On branch master
```

```
Untracked files:
```

```
(use "git add <file>..." to include in what will be committed)
```

```
paper.tex
```

```
nothing added to commit but untracked files present (use "git add" to track)
```

```
~/git_yer_git_on - [master•] »
```

```
touch paper.tex
```

```
touch paper.aux
```

```
git status
```

```
HEAD is now at f1c2f3c... Change first line of readme
~/git_yer_git_on - [f1c2f3c...] » git checkout master
Previous HEAD position was f1c2f3c... Change first line of readme
Switched to branch 'master'
~/git_yer_git_on - [master] » touch paper.tex
~/git_yer_git_on - [master•] » touch paper.aux
~/git_yer_git_on - [master•] » git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
```

paper.tex

nothing added to commit but untracked files present (use "git add" to track)

```
~/git_yer_git_on - [master•] » ls
README.md paper.aux paper.tex
~/git_yer_git_on - [master•] » mvim .gitignore
```

```
touch paper.tex
touch paper.aux
git status
ls
```



```
HEAD is now at f1c2f3c... Change first line of readme
~/git_yer_git_on - [f1c2f3c...] » git checkout master
Previous HEAD position was f1c2f3c... Change first line of readme
Switched to branch 'master'
~/git_yer_git_on - [master] » touch paper.tex
~/git_yer_git_on - [master•] » touch paper.aux
~/git_yer_git_on - [master•] » git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
```

paper.tex

nothing added to commit but untracked files present (use "git add" to track)

```
~/git_yer_git_on - [master•] » ls
README.md paper.aux paper.tex
~/git_yer_git_on - [master•] » mvim .gitignore
~/git_yer_git_on - [master•] »
```

```
touch paper.tex
touch paper.aux
git status
ls
mvim .gitignore

```

```
HEAD is now at f1c2f3c... Change first line of  
~/git_yer_git_on - [f1c2f3c...] » git checkout  
Previous HEAD position was f1c2f3c... Change f  
Switched to branch 'master'  
~/git_yer_git_on - [master] » touch paper.tex  
~/git_yer_git_on - [master•] » touch paper.aux  
~/git_yer_git_on - [master•] » git status  
On branch master  
Untracked files:  
  (use "git add <file>..." to include in what  
  
    paper.tex  
  
nothing added to commit but untracked files pr  
~/git_yer_git_on - [master•] » ls  
README.md paper.aux paper.tex  
~/git_yer_git_on - [master•] » mvim .gitignore  
~/git_yer_git_on - [master•] »
```

```
touch paper.tex  
touch paper.aux  
git status  
ls  
mvim .gitignore  
█
```

“.gitignore” [New File]

0,0-1

All


```
HEAD is now at f1c2f3c... Change first line of readme
~/git_yer_git_on - [f1c2f3c...] » git checkout master
Previous HEAD position was f1c2f3c... Change first line of readme
Switched to branch 'master'
~/git_yer_git_on - [master] » touch paper.tex
~/git_yer_git_on - [master•] » touch paper.aux
~/git_yer_git_on - [master•] » git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
```

paper.tex

nothing added to commit but untracked files present (use "git add" to track)

```
~/git_yer_git_on - [master•] » ls
README.md paper.aux paper.tex
~/git_yer_git_on - [master•] » mvim .gitignore
~/git_yer_git_on - [master•] » mvim ~/.g
```

```
touch paper.tex
touch paper.aux
git status
ls
mvim .gitignore
```

Previous HEAD position was f1c2f3c... Change first line of readme

Switched to branch 'master'

~/git_yer_git_on - [master] » touch paper.tex

~/git_yer_git_on - [master•] » touch paper.aux

~/git_yer_git_on - [master•] » git status

On branch master

Untracked files:

(use "git add <file>..." to include in what will be committed)

paper.tex

nothing added to commit but untracked files present (use "git add" to track)

~/git_yer_git_on - [master•] » ls

README.md paper.aux paper.tex

~/git_yer_git_on - [master•] » mvim .gitignore

~/git_yer_git_on - [master•] » mvim ~/.gitignore

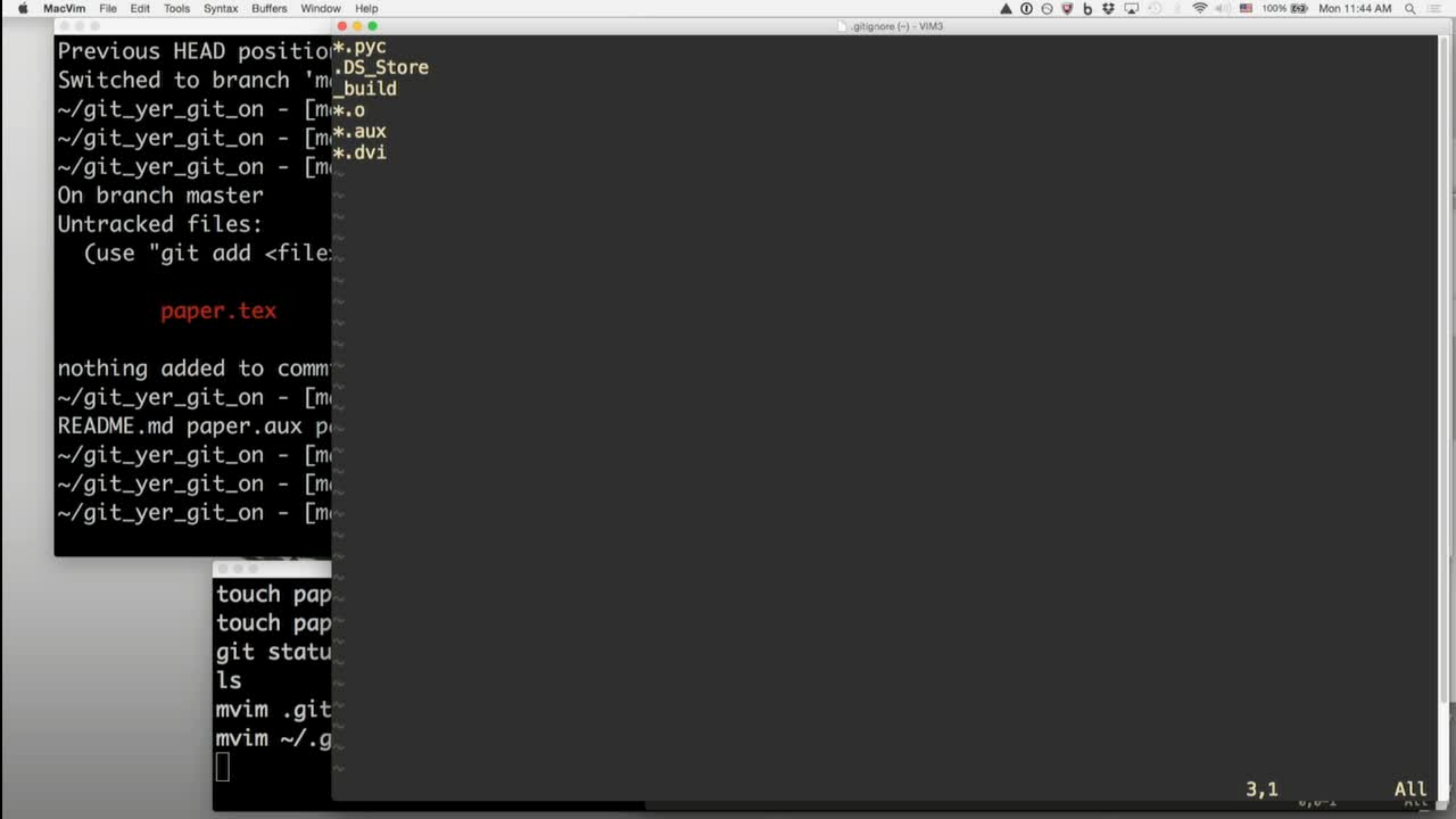
touch paper.tex

touch paper.aux

git status

ls

mvim .gitignore



```
Previous HEAD position:
Switched to branch 'master'
~/git_yer_git_on - [master]
~/git_yer_git_on - [master]
~/git_yer_git_on - [master]
On branch master
Untracked files:
  (use "git add <file>" to add to the commit)
```

paper.tex

```
nothing added to commit
~/git_yer_git_on - [master]
README.md paper.aux paper.tex
~/git_yer_git_on - [master]
~/git_yer_git_on - [master]
~/git_yer_git_on - [master]
```

```
touch paper
touch paper
git status
ls
mvim .gitignore
mvim ~/.gitignore
```

```
Previous HEAD position was f*.tex
Switched to branch 'master'
~/git_yer_git_on - [master]
~/git_yer_git_on - [master•]
~/git_yer_git_on - [master•]
On branch master
Untracked files:
  (use "git add <file>..." to
```

paper.tex

```
nothing added to commit but
~/git_yer_git_on - [master•]
README.md paper.aux paper.te
~/git_yer_git_on - [master•]
~/git_yer_git_on - [master•]
~/git_yer_git_on - [master•]
```

```
touch paper.tex
touch paper.aux
git status
ls
mvim .gitignore
mvim ~/.gitignor
```

".gitignore" [New] 1L, 6C written

1,5

All


```
Previous HEAD position was f1c2f3c... Change first line of readme
Switched to branch 'master'
~/git_yer_git_on - [master] » touch paper.tex
~/git_yer_git_on - [master•] » touch paper.aux
~/git_yer_git_on - [master•] » git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
```

paper.tex

```
nothing added to commit but untracked files present (use "git add" to track)
~/git_yer_git_on - [master•] » ls
README.md paper.aux paper.tex
~/git_yer_git_on - [master•] » mvim .gitignore
~/git_yer_git_on - [master•] » mvim ~/.gitignore
~/git_yer_git_on - [master•] » git status
```

```
touch paper.tex
touch paper.aux
git status
ls
mvim .gitignore
mvim ~/.gitignor
```

".gitignore" [New] 1L, 6C written

1,5

All

(use "git add <file>..." to include in what will be committed)

paper.tex

nothing added to commit but untracked files present (use "git add" to track)

~/git_yer_git_on - [master•] » **ls**

README.md paper.aux paper.tex

~/git_yer_git_on - [master•] » **mvim** .gitignore

~/git_yer_git_on - [master•] » **mvim** ~/.gitignore

~/git_yer_git_on - [master•] » **git** status

On branch master

Untracked files:

(use "git add <file>..." to include in what will be committed)

.gitignore

nothing added to commit but untracked files present (use "git add" to track)

~/git_yer_git_on - [master•] » **git** add .gitignore

touch paper.tex

touch paper.aux

git status

ls

mvim .gitignore

mvim ~/.gitignor

git status

".gitignore" [New] 1L, 6C written

1,5

All

paper.tex

nothing added to commit but untracked files present (use "git add" to track)

```
~/git_yer_git_on - [master•] » ls
```

```
README.md paper.aux paper.tex
```

```
~/git_yer_git_on - [master•] » mvim .gitignore
```

```
~/git_yer_git_on - [master•] » mvim ~/.gitignore
```

```
~/git_yer_git_on - [master•] » git status
```

On branch master

Untracked files:

(use "git add <file>..." to include in what will be committed)

.gitignore

nothing added to commit but untracked files present (use "git add" to track)

```
~/git_yer_git_on - [master•] » git add .gitignore
```

```
~/git_yer_git_on - [master•] » git stat
```

```
touch paper.aux
```

```
git status
```

```
ls
```

```
mvim .gitignore
```

```
mvim ~/.gitignore
```

```
git status
```

```
git add .gitignore
```

".gitignore" [New] 1L, 6C written

1,5

All

```
~/git_yer_git_on - [master•] » mvim ~/.gitignore
```

```
~/git_yer_git_on - [master•] » git status
```

On branch master

Untracked files:

(use "git add <file>..." to include in what will be committed)

.gitignore

nothing added to commit but untracked files present (use "git add" to track)

```
~/git_yer_git_on - [master•] » git add .gitignore
```

```
~/git_yer_git_on - [master•] » git status
```

On branch master

Changes to be committed:

(use "git reset HEAD <file>..." to unstage)

new file: .gitignore

```
~/git_yer_git_on - [master•] » git add paper.tex
```

```
git status
```

```
ls
```

```
mvim .gitignore
```

```
mvim ~/.gitignore
```

```
git status
```

```
git add .gitignore
```

```
git status
```

".gitignore" [New] 1L, 6C written

1,5

All

(use "git add <file>..." to include in what will be committed)

`.gitignore`

nothing added to commit but untracked files present (use "git add" to track)

```
~/git_yer_git_on - [master•] » git add .gitignore
```

```
~/git_yer_git_on - [master•] » git status
```

On branch master

Changes to be committed:

(use "git reset HEAD <file>..." to unstage)

new file: `.gitignore`

```
~/git_yer_git_on - [master•] » git add paper.tex
```

The following paths are ignored by one of your `.gitignore` files:

`paper.tex`

Use `-f` if you really want to add them.

```
~/git_yer_git_on - [master•] » git add -f paper.tex
```

```
ls
```

```
mvim .gitignore
```

```
mvim ~/.gitignore
```

```
git status
```

```
git add .gitignore
```

```
git status
```

```
git add paper.tex
```

`".gitignore"` [New] 1L, 6C written

1,5

All

.gitignore

nothing added to commit but untracked files present (use "git add" to track)

```
~/git_yer_git_on - [master●] » git add .gitignore
```

```
~/git_yer_git_on - [master●] » git status
```

On branch master

Changes to be committed:

(use "git reset HEAD <file>..." to unstage)

new file: .gitignore

```
~/git_yer_git_on - [master●] » git add paper.tex
```

The following paths are ignored by one of your .gitignore files:

paper.tex

Use -f if you really want to add them.

```
~/git_yer_git_on - [master●] » git add -f paper.tex
```

```
~/git_yer_git_on - [master●] » cd
```

```
mvim .gitignore
```

```
mvim ~/.gitignore
```

```
git status
```

```
git add .gitignore
```

```
git status
```

```
git add paper.tex
```

```
git add -f paper
```

".gitignore" [New] 1L, 6C written

1,5

All

nothing added to commit but untracked files present (use "git add" to track)

```
~/git_yer_git_on - [master•] » git add .gitignore
```

```
~/git_yer_git_on - [master•] » git status
```

On branch master

Changes to be committed:

(use "git reset HEAD <file>..." to unstage)

```
new file:   .gitignore
```

```
~/git_yer_git_on - [master•] » git add paper.tex
```

The following paths are ignored by one of your .gitignore files:

paper.tex

Use -f if you really want to add them.

```
~/git_yer_git_on - [master•] » git add -f paper.tex
```

```
~/git_yer_git_on - [master•] » cd ~/Teaching/git-tutorials-siamcse2017
```

```
Teaching/git-tutorials-siamcse2017 - [master•] » git status
```

```
mvim ~/.gitignore
```

```
git status
```

```
git add .gitignore
```

```
git status
```

```
git add paper.tex
```

```
git add -f paper
```

```
cd ~/Teaching/gi
```

".gitignore" [New] 1L, 6C written

1,5

All

new file: .gitignore

~/git_yer_git_on - [master•] » git add paper.tex

The following paths are ignored by one of your .gitignore files:

paper.tex

Use -f if you really want to add them.

~/git_yer_git_on - [master•] » git add -f paper.tex

~/git_yer_git_on - [master•] » cd ~/Teaching/git-tutorials-siamcse2017

Teaching/git-tutorials-siamcse2017 - [master•] » git status

On branch master

Your branch is up-to-date with 'origin/master'.

Untracked files:

(use "git add <file>..." to include in what will be committed)

slides/haier vol1.pdf

nothing added to commit but untracked files present (use "git add" to track)

Teaching/git-tutorials-siamcse2017 - [master•] »

git status

git add .gitignore

git status

git add paper.tex

git add -f paper

cd ~/Teaching/gi

git status

".gitignore" [New] 1L, 6C written

1,5

All


```
ITerm2 Shell Edit View Profiles Toolbelt Window Help
5: ~/Teaching/git-tutorials-siamcse2017 (zsh)

new file: .gitignore

~/git_yer_git_on - [master•] » git add paper.tex
The following paths are ignored by one of your .gitignore files:
paper.tex
Use -f if you really want to add them.
~/git_yer_git_on - [master•] » git add -f paper.tex
~/git_yer_git_on - [master•] » cd ~/Teaching/git-tutorials-siamcse2017
Teaching/git-tutorials-siamcse2017 - [master•] » git status
On branch master
Your branch is up-to-date with 'origin/master'.
Untracked files:
  (use "git add <file>..." to include in what will be committed)

slides/haier vol1.pdf

nothing added to commit but untracked files present (use "git add" to track)
Teaching/git-tutorials-siamcse2017 - [master•] »

git status
git add .gitignore
git status
git add paper.tex
git add -f paper
cd ~/Teaching/git
git status

".gitignore" [New] 1L, 6C written
1,5 All
```

new file: .gitignore

~/git_yer_git_on - [master•] » git add paper.tex

The following paths are ignored by one of your .gitignore files:

paper.tex

Use -f if you really want to add them.

~/git_yer_git_on - [master•] » git add -f paper.tex

~/git_yer_git_on - [master•] » cd ~/Teaching/git-tutorials-siamcse2017

Teaching/git-tutorials-siamcse2017 - [master•] » git status

On branch master

Your branch is up-to-date with 'origin/master'.

Untracked files:

(use "git add <file>..." to include in what will be committed)

slides/haier vol1.pdf

nothing added to commit but untracked files present (use "git add" to track)

Teaching/git-tutorials-siamcse2017 - [master•] » git remote

git status

git add .gitignore

git status

git add paper.tex

git add -f paper

cd ~/Teaching/gi

git status

".gitignore" [New] 1L, 6C written

1,5

All

The following paths are ignored by one of your .gitignore files:

paper.tex

Use -f if you really want to add them.

~/git_yer_git_on - [master•] » git add -f paper.tex

~/git_yer_git_on - [master•] » cd ~/Teaching/git-tutorials-siamcse2017

Teaching/git-tutorials-siamcse2017 - [master•] » git status

On branch master

Your branch is up-to-date with 'origin/master'.

Untracked files:

(use "git add <file>..." to include in what will be committed)

slides/haier vol1.pdf

nothing added to commit but untracked files present (use "git add" to track)

Teaching/git-tutorials-siamcse2017 - [master•] » git remote

ketch

origin

Teaching/git-tutorials-siamcse2017 - [master•] » git remote -v

git add .gitignore

git status

git add paper.tex

git add -f paper.tex

cd ~/Teaching/git-tutorials-siamcse2017

git status

git remote

".gitignore" [New] 1L, 6C written

1,5

All

Teaching/git-tutorials-siamcse2017 - [master•] » **git** status

On branch master

Your branch is up-to-date with 'origin/master'.

Untracked files:

(use "git add <file>..." to include in what will be committed)

slides/haier vol1.pdf

nothing added to commit but untracked files present (use "git add" to track)

Teaching/git-tutorials-siamcse2017 - [master•] » **git** remote

ketch

origin

Teaching/git-tutorials-siamcse2017 - [master•] » **git** remote -v

ketch https://github.com/ketch/git-tutorials-siamcse2017 (fetch)

ketch https://github.com/ketch/git-tutorials-siamcse2017 (push)

origin https://github.com/uwescience/git-tutorials-siamcse2017.git (fetch)

origin https://github.com/uwescience/git-tutorials-siamcse2017.git (push)

Teaching/git-tutorials-siamcse2017 - [master•] »

git status

git add paper.te

git add -f paper

cd ~/Teaching/gi

git status

git remote

git remote -v

".gitignore" [New] 1L, 6C written

1,5

All


```
Teaching/git-tutorials-siamcse2017 - [master•] » git status
On branch master
Your branch is up-to-date with 'origin/master'.
Untracked files:
  (use "git add <file>..." to include in what will be committed)

    slides/haired vol1.pdf

nothing added to commit but untracked files present (use "git add" to track)
Teaching/git-tutorials-siamcse2017 - [master•] » git remote
ketch
origin
Teaching/git-tutorials-siamcse2017 - [master•] » git remote -v
ketch    https://github.com/ketch/git-tutorials-siamcse2017 (fetch)
ketch    https://github.com/ketch/git-tutorials-siamcse2017 (push)
origin   https://github.com/uwescience/git-tutorials-siamcse2017.git (fetch)
origin   https://github.com/uwescience/git-tutorials-siamcse2017.git (push)
Teaching/git-tutorials-siamcse2017 - [master•] »
```

```
git status
git add paper.tex
git add -f paper.tex
cd ~/Teaching/git-tutorials-siamcse2017
git status
git remote
git remote -v
```

".gitignore" [New] 1L, 6C written

```
Teaching/git-tutorials-siamcse2017 - [master•] » git status
On branch master
Your branch is up-to-date with 'origin/master'.
Untracked files:
  (use "git add <file>..." to include in what will be committed)

    slides/haier vol1.pdf

nothing added to commit but untracked files present (use "git add" to track)
Teaching/git-tutorials-siamcse2017 - [master•] » git remote
ketch
origin
Teaching/git-tutorials-siamcse2017 - [master•] » git remote -v
ketch    https://github.com/ketch/git-tutorials-siamcse2017 (fetch)
ketch    https://github.com/ketch/git-tutorials-siamcse2017 (push)
origin   https://github.com/uwescience/git-tutorials-siamcse2017.git (fetch)
origin   https://github.com/uwescience/git-tutorials-siamcse2017.git (push)
Teaching/git-tutorials-siamcse2017 - [master•] »
```

```
git status
git add paper.tex
git add -f paper.tex
cd ~/Teaching/git-tutorials-siamcse2017
git status
git remote
git remote -v
```

".gitignore" [New] 1L, 6C written


```
Teaching/git-tutorials-siamcse2017 - [master•] » git status
On branch master
Your branch is up-to-date with 'origin/master'.
Untracked files:
  (use "git add <file>..." to include in what will be committed)

    slides/haier vol1.pdf

nothing added to commit but untracked files present (use "git add" to track)
Teaching/git-tutorials-siamcse2017 - [master•] » git remote
ketch
origin
Teaching/git-tutorials-siamcse2017 - [master•] » git remote -v
ketch    https://github.com/ketch/git-tutorials-siamcse2017 (fetch)
ketch    https://github.com/ketch/git-tutorials-siamcse2017 (push)
origin   https://github.com/uwescience/git-tutorials-siamcse2017.git (fetch)
origin   https://github.com/uwescience/git-tutorials-siamcse2017.git (push)
Teaching/git-tutorials-siamcse2017 - [master•] »
```

```
git status
git add paper.tex
git add -f paper.tex
cd ~/Teaching/git-tutorials-siamcse2017
git status
git remote
git remote -v
```

".gitignore" [New] 1L, 6C written

Teaching/git-tutorials-siamcse2017 - [master•] » **git** status

On branch master

Your branch is up-to-date with 'origin/master'.

Untracked files:

(use "git add <file>..." to include in what will be committed)

slides/haier vol1.pdf

nothing added to commit but untracked files present (use "git add" to track)

Teaching/git-tutorials-siamcse2017 - [master•] » **git** remote

ketch

origin

Teaching/git-tutorials-siamcse2017 - [master•] » **git** remote -v

ketch https://github.com/ketch/git-tutorials-siamcse2017 (fetch)

ketch https://github.com/ketch/git-tutorials-siamcse2017 (push)

origin https://github.com/uwescience/git-tutorials-siamcse2017.git (fetch)

origin https://github.com/uwescience/git-tutorials-siamcse2017.git (push)

Teaching/git-tutorials-siamcse2017 - [master•] »

git status

git add paper.te

git add -f paper

cd ~/Teaching/gi

git status

git remote

git remote -v

".gitignore" [New] 1L, 6C written

1,5

All


```
Teaching/git-tutorials-siamcse2017 - [master•] » git status
On branch master
Your branch is up-to-date with 'origin/master'.
Untracked files:
  (use "git add <file>..." to include in what will be committed)

    slides/haier vol1.pdf

nothing added to commit but untracked files present (use "git add" to track)
Teaching/git-tutorials-siamcse2017 - [master•] » git remote
ketch
origin
Teaching/git-tutorials-siamcse2017 - [master•] » git remote -v
ketch    https://github.com/ketch/git-tutorials-siamcse2017 (fetch)
ketch    https://github.com/ketch/git-tutorials-siamcse2017 (push)
origin   https://github.com/uwescience/git-tutorials-siamcse2017.git (fetch)
origin   https://github.com/uwescience/git-tutorials-siamcse2017.git (push)
Teaching/git-tutorials-siamcse2017 - [master•] »
```

```
git status
git add paper.tex
git add -f paper
cd ~/Teaching/git-tutorials-siamcse2017
git status
git remote
git remote -v
```

```
".gitignore" [New] 1L, 6C written
```

1,5All

Teaching/git-tutorials-siamcse2017 - [master•] » **git** status

On branch master

Your branch is up-to-date with 'origin/master'.

Untracked files:

(use "git add <file>..." to include in what will be committed)

slides/haier vol1.pdf

nothing added to commit but untracked files present (use "git add" to track)

Teaching/git-tutorials-siamcse2017 - [master•] » **git** remote

ketch

origin

Teaching/git-tutorials-siamcse2017 - [master•] » **git** remote -v

ketch https://github.com/ketch/git-tutorials-siamcse2017 (fetch)

ketch https://github.com/ketch/git-tutorials-siamcse2017 (push)

origin https://github.com/uwescience/git-tutorials-siamcse2017.git (fetch)

origin https://github.com/uwescience/git-tutorials-siamcse2017.git (push)

Teaching/git-tutorials-siamcse2017 - [master•] » **git** st

git status

git add paper.te

git add -f paper

cd ~/Teaching/gi

git status

git remote

git remote -v

".gitignore" [New] 1L, 6C written

1,5

All


```
Teaching/git-tutorials-siamcse2017 - [master•] » git remote
ketch
origin
Teaching/git-tutorials-siamcse2017 - [master•] » git remote -v
ketch https://github.com/ketch/git-tutorials-siamcse2017 (fetch)
ketch https://github.com/ketch/git-tutorials-siamcse2017 (push)
origin https://github.com/uwescience/git-tutorials-siamcse2017.git (fetch)
origin https://github.com/uwescience/git-tutorials-siamcse2017.git (push)
Teaching/git-tutorials-siamcse2017 - [master•] » git status
On branch master
Your branch is up-to-date with 'origin/master'.
Untracked files:
  (use "git add <file>..." to include in what will be committed)

slides/haier vol1.pdf

nothing added to commit but untracked files present (use "git add" to track)
Teaching/git-tutorials-siamcse2017 - [master•] » touch fi
```

```
git add paper.te
git add -f paper
cd ~/Teaching/gi
git status
git remote
git remote -v
git status
```

".gitignore" [New] 1L, 6C written

```

ketch
origin
Teaching/git-tutorials-siamcse2017 - [master•] » git remote -v
ketch  https://github.com/ketch/git-tutorials-siamcse2017 (fetch)
ketch  https://github.com/ketch/git-tutorials-siamcse2017 (push)
origin https://github.com/uwescience/git-tutorials-siamcse2017.git (fetch)
origin https://github.com/uwescience/git-tutorials-siamcse2017.git (push)
Teaching/git-tutorials-siamcse2017 - [master•] » git status
On branch master
Your branch is up-to-date with 'origin/master'.
Untracked files:
  (use "git add <file>..." to include in what will be committed)

    slides/haier vol1.pdf

nothing added to commit but untracked files present (use "git add" to track)
Teaching/git-tutorials-siamcse2017 - [master•] » touch file1.txt
Teaching/git-tutorials-siamcse2017 - [master•] » git st

```

```

git add -f paper
cd ~/Teaching/gi
git status
git remote
git remote -v
git status
touch file1.txt

```


Untracked files:

(use "git add <file>..." to include in what will be committed)

slides/haier vol1.pdf

nothing added to commit but untracked files present (use "git add" to track)

Teaching/git-tutorials-siamcse2017 - [master•] » touch file1.txt

Teaching/git-tutorials-siamcse2017 - [master•] » git status

On branch master

Your branch is up-to-date with 'origin/master'.

Untracked files:

(use "git add <file>..." to include in what will be committed)

file1.txt

slides/haier vol1.pdf

nothing added to commit but untracked files present (use "git add" to track)

Teaching/git-tutorials-siamcse2017 - [master•] » git add

```
cd ~/Teaching/gi
git status
git remote
git remote -v
git status
touch file1.txt
git status
```

".gitignore" [New] 1L, 6C written

1,5

All

slides/haier vol1.pdf

nothing added to commit but untracked files present (use "git add" to track)

Teaching/git-tutorials-siamcse2017 - [master•] » touch file1.txt

Teaching/git-tutorials-siamcse2017 - [master•] » git status

On branch master

Your branch is up-to-date with 'origin/master'.

Untracked files:

(use "git add <file>..." to include in what will be committed)

file1.txt

slides/haier vol1.pdf

nothing added to commit but untracked files present (use "git add" to track)

Teaching/git-tutorials-siamcse2017 - [master•] » git add

Nothing specified, nothing added.

Maybe you wanted to say 'git add .'?

Teaching/git-tutorials-siamcse2017 - [master•] » git add file1.txt

git status
git remote
git remote -v
git status
touch file1.txt
git status
git add

".gitignore" [New] 1L, 6C written

1,5

All

nothing added to commit but untracked files present (use "git add" to track)

Teaching/git-tutorials-siamcse2017 - [master•] » touch file1.txt

Teaching/git-tutorials-siamcse2017 - [master•] » git status

On branch master

Your branch is up-to-date with 'origin/master'.

Untracked files:

(use "git add <file>..." to include in what will be committed)

file1.txt

slides/haier vol1.pdf

nothing added to commit but untracked files present (use "git add" to track)

Teaching/git-tutorials-siamcse2017 - [master•] » git add

Nothing specified, nothing added.

Maybe you wanted to say 'git add .'?

Teaching/git-tutorials-siamcse2017 - [master•] » git add file1.txt

Teaching/git-tutorials-siamcse2017 - [master••] » git commit

git remote
git remote -v
git status
touch file1.txt
git status
git add
git add file1.t

".gitignore" [New] 1L, 6C written

1,5

All

```
Add an empty file.
# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.
# On branch master
# Your branch is up-to-date with 'origin/master'.
#
# Changes to be committed:
#   new file:   file1.txt
#
# Untracked files:
#   slides/haier vol1.pdf
#
: wq
```

```
git remote -v
git status
touch file1.txt
git status
git add
git add file1.t
git commit
```

".gitignore" [New] 1L, 6C written

On branch master
Your branch is up-to-date with 'origin/master'.
Untracked files:
 (use "git add <file>..." to include in what will be committed)

file1.txt
slides/haired vol1.pdf

nothing added to commit but untracked files present (use "git add" to track)
Teaching/git-tutorials-siamcse2017 - [master●] » git add
Nothing specified, nothing added.
Maybe you wanted to say 'git add .'?
Teaching/git-tutorials-siamcse2017 - [master●] » git add file1.txt
Teaching/git-tutorials-siamcse2017 - [master●●] » git commit
[master d3e543e] Add an empty file.
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 file1.txt
Teaching/git-tutorials-siamcse2017 - [master●] » git status

git remote -v
git status
touch file1.txt
git status
git add
git add file1.t
git commit

".gitignore" [New] 1L, 6C written

```
Nothing specified, nothing added.
Maybe you wanted to say 'git add .'
Teaching/git-tutorials-siamcse2017 - [master●] » git add file1.txt
Teaching/git-tutorials-siamcse2017 - [master●●] » git commit
[master d3e543e] Add an empty file.
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 file1.txt
Teaching/git-tutorials-siamcse2017 - [master●] » git status
On branch master
Your branch is ahead of 'origin/master' by 1 commit.
(use "git push" to publish your local commits)
Untracked files:
(use "git add <file>..." to include in what will be committed)

slides/haier vol1.pdf

nothing added to commit but untracked files present (use "git add" to track)
Teaching/git-tutorials-siamcse2017 - [master●] »
```

```
git status
touch file1.txt
git status
git add
git add file1.txt
git commit
git status
```

".gitignore" [New] 1L, 6C written

1,5

All


```
Nothing specified, nothing added.
Maybe you wanted to say 'git add .'
Teaching/git-tutorials-siamcse2017 - [master●] » git add file1.txt
Teaching/git-tutorials-siamcse2017 - [master●●] » git commit
[master d3e543e] Add an empty file.
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 file1.txt
Teaching/git-tutorials-siamcse2017 - [master●] » git status
On branch master
Your branch is ahead of 'origin/master' by 1 commit.
(use "git push" to publish your local commits)
Untracked files:
(use "git add <file>..." to include in what will be committed)

slides/haier vol1.pdf

nothing added to commit but untracked files present (use "git add" to track)
Teaching/git-tutorials-siamcse2017 - [master●] »
```

```
git status
touch file1.txt
git status
git add
git add file1.txt
git commit
git status
```

".gitignore" [New] 1L, 6C written

1,5

All

```
Nothing specified, nothing added.
Maybe you wanted to say 'git add .'
Teaching/git-tutorials-siamcse2017 - [master●] » git add file1.txt
Teaching/git-tutorials-siamcse2017 - [master●●] » git commit
[master d3e543e] Add an empty file.
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 file1.txt
Teaching/git-tutorials-siamcse2017 - [master●] » git status
On branch master
Your branch is ahead of 'origin/master' by 1 commit.
(use "git push" to publish your local commits)
Untracked files:
(use "git add <file>..." to include in what will be committed)

slides/haier vol1.pdf

nothing added to commit but untracked files present (use "git add" to track)
Teaching/git-tutorials-siamcse2017 - [master●] » git push ketch master
```

```
git status
touch file1.txt
git status
git add
git add file1.txt
git commit
git status
```

".gitignore" [New] 1L, 6C written

1,5

All


```

Maybe you wanted to say 'git add .'
Teaching/git-tutorials-siamcse2017 - [master●] » git add file1.txt
Teaching/git-tutorials-siamcse2017 - [master●●] » git commit
[master d3e543e] Add an empty file.
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 file1.txt
Teaching/git-tutorials-siamcse2017 - [master●] » git status
On branch master
Your branch is ahead of 'origin/master' by 1 commit.
  (use "git push" to publish your local commits)
Untracked files:
  (use "git add <file>..." to include in what will be committed)

    slides/haier vol1.pdf

nothing added to commit but untracked files present (use "git add" to track)
Teaching/git-tutorials-siamcse2017 - [master●] » git push ketch master

```

```

touch file1.txt
git status
git add
git add file1.txt
git commit
git status
git push ketch m

```

".gitignore" [New] 1L, 6C written

```
create mode 100644 file1.txt
Teaching/git-tutorials-siamcse2017 - [master•] » git status
On branch master
Your branch is ahead of 'origin/master' by 1 commit.
  (use "git push" to publish your local commits)
Untracked files:
  (use "git add <file>..." to include in what will be committed)
```

```
slides/haier vol1.pdf
I
```

```
nothing added to commit but untracked files present (use "git add" to track)
Teaching/git-tutorials-siamcse2017 - [master•] » git push ketch master
Counting objects: 49, done.
Delta compression using up to 8 threads.
Compressing objects: 100% (48/48), done.
Writing objects: 100% (49/49), 34.97 KiB | 0 bytes/s, done.
Total 49 (delta 29), reused 0 (delta 0)
```

```
touch file1.txt
git status
git add
git add file1.t>
git commit
git status
git push ketch n
```

".gitignore" [New] 1L, 6C written

Your branch is ahead of 'origin/master' by 1 commit.
 (use "git push" to publish your local commits)
 Untracked files:
 (use "git add <file>..." to include in what will be committed)

slides/haier vol1.pdf

nothing added to commit but untracked files present (use "git add" to track)

Teaching/git-tutorials-siamcse2017 - [master•] » git push ketch master

Counting objects: 49, done.

Delta compression using up to 8 threads.

Compressing objects: 100% (48/48), done.

Writing objects: 100% (49/49), 34.97 KiB | 0 bytes/s, done.

Total 49 (delta 29), reused 0 (delta 0)

remote: Resolving deltas: 100% (29/29), completed with 5 local objects.

To https://github.com/ketch/git-tutorials-siamcse2017

a31d7ba..d3e543e master -> master

Teaching/git-tutorials-siamcse2017 - [master•] » git fetch origin

touch file1.txt

git status

git add

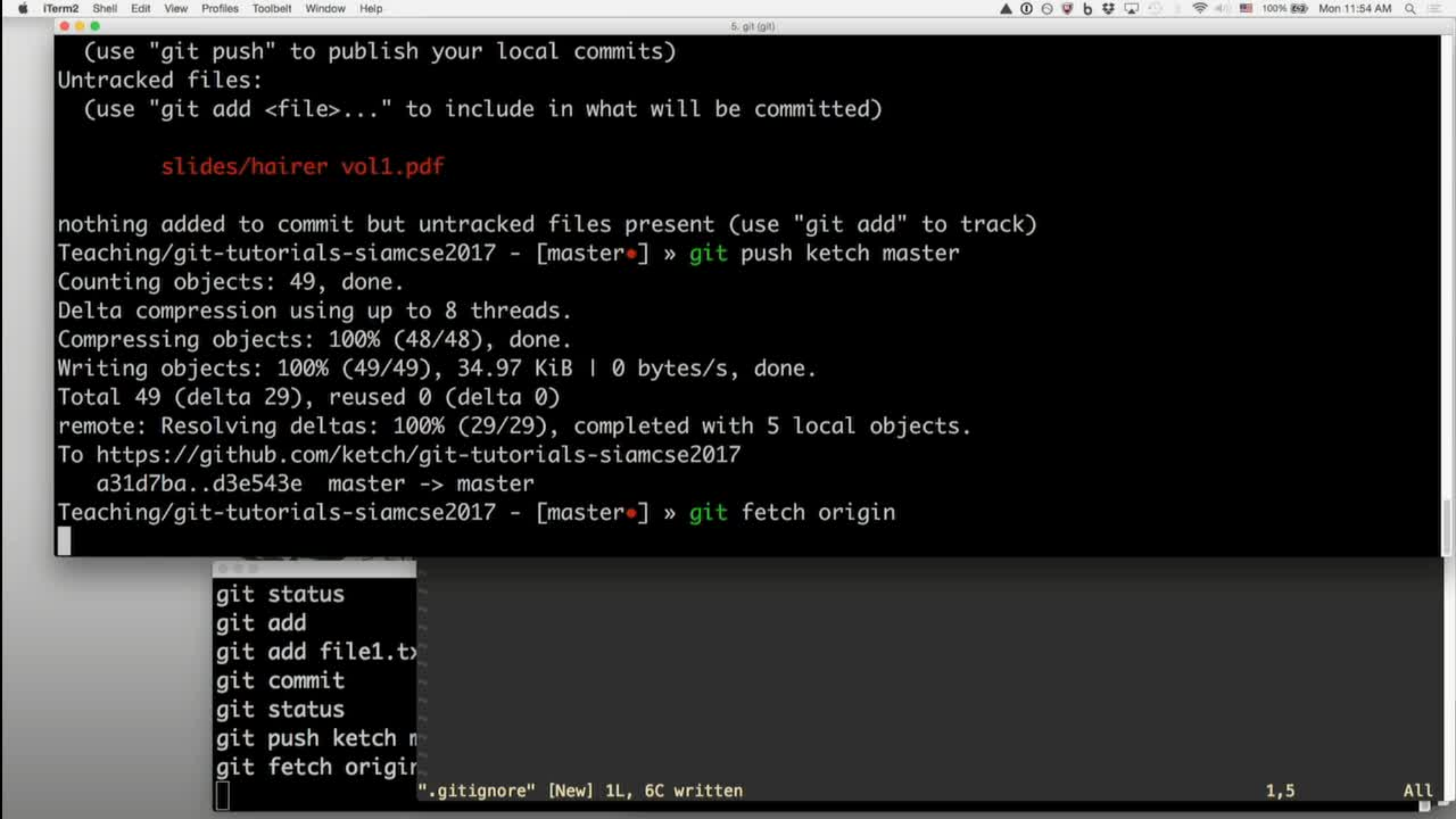
git add file1.txt

git commit

git status

git push ketch m

".gitignore" [New] 1L, 6C written



(use "git push" to publish your local commits)

Untracked files:

(use "git add <file>..." to include in what will be committed)

slides/haier vol1.pdf

nothing added to commit but untracked files present (use "git add" to track)

Teaching/git-tutorials-siamcse2017 - [master] » git push ketch master

Counting objects: 49, done.

Delta compression using up to 8 threads.

Compressing objects: 100% (48/48), done.

Writing objects: 100% (49/49), 34.97 KiB | 0 bytes/s, done.

Total 49 (delta 29), reused 0 (delta 0)

remote: Resolving deltas: 100% (29/29), completed with 5 local objects.

To https://github.com/ketch/git-tutorials-siamcse2017

a31d7ba..d3e543e master -> master

Teaching/git-tutorials-siamcse2017 - [master] » git fetch origin

git status

git add

git add file1.txt

git commit

git status

git push ketch master

git fetch origin

".gitignore" [New] 1L, 6C written

1,5

All