Wait... it's that easy?

Using Built-In Accessibility Features on Everyday Devices

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Learning Objectives

- Learn about the benefits of using built-in accessibility features in common technology.
- Potential challenges associated with using 3rd party assistive technology.
- Identify several features in Apple/iOS, Windows, and Android technology.
Today’s Agenda

- Captioning
- Speech to Text
- Text to Speech
- Microsoft & MacOS Accessibility Features
- Virtual Assistants
- Bonus Content!
What is Built-in AT?

- Built-in accessibility features are designed to help all people use technology more easily.
- Common built-in AT features include text-to-speech and dictation technology.
- Built-in assistive technology features vary among brands.
- Most mobile devices come with accessible technology (AT) that can help with reading, writing and organization.
Audience Question

What are some of the primary devices students are using on your campus today?
Automatic & Artificial Captioning
Automatic/AI Captioning

- Zoom
- Microsoft PowerPoint
- Closed Captions in Google Slides
- Google Chrome
Zoom Live Transcript
Zoom Automatic Captions

- Version 5.0.2 or higher
- Who can enable?
- Use an External Microphone
- Speak Slowly
- Take Turns/Pause Before Speaking
- Monitor the Participants Panel for Participant Reactions
Zoom Automatic Caption Options

- Participants can enable Subtitle and/or Transcript
- Speakers Identification
- Save Transcript
Microsoft PowerPoint Automatic Subtitles (Microsoft 365)
"Wait... it's that easy? Using Built-In Accessibility Features on Everyday Devices"

Dan Darkow, Miller Center for SDS
Sean Poley, AccessMU Center
Live Captions in Google Products
Closed Captions in Google Slides

• Click the “CC” button in the navigation box (or use the shortcut Ctrl + Shift + c in Chrome OS / Windows or ⌘ + Shift + c in Mac)

• Google Slides uses the computer’s microphone or an external microphone paired with the computer

• To change text position or size, next to “CC” click the drop-down menu

• Captions don't include punctuation
Google Chrome Live Captions

• Live Caption works on all Macs and PCs, as well as some Chromebooks

• Chrome Version 89

• The feature currently supports English

• Captions don't include punctuation

• Captioning box can be resized and moved
Enable Live Caption in Google Chrome
Live Captions in Android

• Works in English, French, German, Italian & Japanese (beta) on Pixel 2 and later, and selected other Android phones

• Captions might be unavailable for some media and calling apps

• Live Caption works best on audio with clear speech and low background noise

• Live Caption doesn't use mobile data or an internet connection

• All audio and captions are processed on the device and are never stored or sent to Google

• Uses more Battery
Voice Control & Speech Recognition
Speech to Text

- Microsoft Dictate
- Google Docs Voice Type
- Mac OS Voice Control
- Apple Dictation
Microsoft Dictate
Microsoft Dictate Platform

• Available with Windows 10 & Microsoft Word, PowerPoint, OneNote & Outlook

• Reliable Internet Connectivity Required

• Supports Multiple Languages

• Dictation commands are available in US English only
Dictation in Office 365 and Windows 10
Google Docs Voice Typing
Google Docs Voice Typing Platform

• You can type and edit by speaking in Google Docs or in Google Slides speaker notes.

• You can use different phrases to add punctuation to your text. Punctuation might not be available in every language:

  - After you start voice typing, you can use commands to edit and format your document. For example, "Select paragraph," "italics," or "Go to the end of the line."

• To use voice typing or voice commands, your computer microphone needs to be on and working.
Global sales team meeting brainstorm

Once a year, the global sales team meets to discuss strategy and get connected. We have a lot of new hires, so this will also be a great opportunity for everyone to catch up and meet each other!
MacOS Voice Control
Apple Dictation
3

Text to Speech
Built-in Text to Speech Platforms

- Microsoft Read Aloud
- MacOS - Speech
Microsoft Read Aloud
Microsoft Read Aloud Platform

• Only Available for Office 2019 and Microsoft 365

• Will Start Speaking the Text from the Cursor Onwards

• Supports Multiple Languages
**Nutrition:** Students majoring in Nutrition study people's nutritional needs and care. All students in the major complete the Nutrition Foundation and choose their career path by selecting a concentration in either **Community Nutrition** for the non-Registered Dietitian (RD) student or the **Dietetics Concentration** for those students planning on becoming an RD. Upon completion of the BS in KNH, Dietetics Concentration, students are eligible to sit for the Dietetic Technician Registration Examination and with successful completion earn the credential "nutrition and dietetics technician, registered" (NDTR). To become an RD, Dietetic graduates must complete a clinical experience and pass a professional examination.

**Public Health:** The public health program focuses on health promotion and education prevention strategies and interventions across the lifespan by examining social and behavioral principles and practices of promoting health to address current and emerging public health issues.
MacOS - Speech
Event Schedule
IT Services | Accessibility at Miami University | Annual Symposium

Accessible Technology Symposium
April 12, 2021 - April 16, 2021
Join us online from anywhere for free!

Symposium Schedule, April 12-16, 2021

Monday, April 12, 2021 | 2:00 pm (EST)
"Wait... it's that easy? Using Built-In Accessibility Features on Everyday Devices"

Did you know that there are built-in features in everyday technology? In this session, we will explore the accessibility features baked into technology such as your phones, tablets, and other personal computing devices. We will also discuss specific accessibility features available in the applications commonly used.

Presented by: Dan Darksow (Miller Center for Student Disability Services) and Sean Poley (AccessMIU Center)

Register ➜
Microsoft & MacOS
Accessibility Features
Microsoft Office Accessibility Checker

• Available in Word, Excel, Outlook, OneNote, and PowerPoint on Windows, Office Online, or Mac, and Visio on Windows

• Offers suggestions on how to resolve each issue

• Always review your work to find the issues hiding from the Accessibility Checker
Office 365
Keep your Office projects accessible
Microsoft Accessibility Settings

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MacOS Accessibility Options
Mac Accessibility Settings

Accessibility features adapt your Mac to your individual needs.

Your Mac can be customized to support your vision, hearing, physical motor, and learning & literacy requirements.
Onscreen Keyboards
Onscreen Keyboard Platforms

Windows OS via Ease of Access

Mac OS via Accessibility System Preferences
Virtual Assistants
Virtual Assistant Platforms

Amazon Echo

Google Home
Amazon Echo
Amazon Echo: Real-Time Texting
Google Home
It’s Your Turn…
What Built-in AT Do You Use?
Bonus Content!
- iPhone Assistive Touch
- Accessibility Bookmarklets
Assistive Touch
Accessibility Bookmarklets

Accessibility of web pages can be hard to observe. These bookmarklets help web developers and designers see the "big picture" regarding web accessibility.

The bookmarklets do this by:
- Making otherwise hidden accessibility features on web pages (like ARIA landmarks, roles, labels and descriptions and alternative text for non-text objects) more visible
- Showing whether HTML markup (like lists, headings, labeled elements, and appropriate landmark roles) is used with proper semantics for accessibility
- Flagging elements or regions on web pages where information that could improve accessibility (like elements not contained in landmarks, image alt text or long descriptions, list accessible names or descriptions, or form control labels) is missing

For example, having headings highlighted in the screenshot below allows a quick visual inspection of their structure and nesting. The headings bookmarklet is just one available in this free collection.
Thank you!

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