Assistive Technology (AT) and Web-based Environments

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How People with Disabilities Use the Web

Auditory
Cognitive and Neurological
Physical
Speech
Visual
Speech-to-Text

- Siri (Apple)
- Google Now (Google)
- Cortana (Microsoft)
TTS and STT Combination
Text-to-Speech

- JAWS
- NVDA
- VoiceOver (Mac)
- VoiceOver (iOS)
- TalkBack for Android
- Window-Eyes
Refreshable Braille Displays

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Optical Character Recognition

- Open Book
- Kurzweil 1000
- Text Cloner Pro
Screen Magnification Programs

- MAGic
- ZoomText
- Windows Magnifier
- Mac Zoom
- Zoom and Magnifier (iOS & Android)
Speech Recognition Software

Turn spoken words into text

Connect with the timing of your thoughts

Dictation speed 70 to 100 words per minute
Video of Student Using Speech-to-Text Technology

Video of Student integrating speech-to-text solutions into her personal life and educational pursuits.
ClaroRead

Text-to-Speech
Visual Highlighting
Read back any on-screen text and program commands
High Quality Screen Reader
Keyboard Echo
Save to Audio
Premier Literacy Suite

- Text-to-Speech software
- Post writing to “cloud applications”
- Scan and read documents
- Integrated Dictionary
- Create study notes
Perspective Videos: W3C-WAI, Part 1

- Keyboard Compatibility
- Clear Layout and Design
- Large Links, Buttons, and Controls
- Customizable Text
- Understandable Content
- Colors with Good Contrast
- Text to Speech
- Video Captions
- Voice Recognition
- Notifications and Feedback
Screen Reader Demonstration

• Title Page
• Links
• Headings
• Graphics
• Multimedia
• Tables
• Keyboard Access
• Low Vision
Questions?, Part 2