

Low Vision Technology Update 2012: Computer, Video and More

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I. Latest Computer Accessibility Options: Output

- A. Monitors and Displays: how big is too big?
- B. Screen Magnification Utilities and Programs
 - 1. Current Windows Options: Windows Magnifier / Ease of Access Center (Vista/Windows 7) / Zoomtext Magnifier / Zoomtext Express / MAGic / MAGic Pro / Guide / Supernova Magnifier / Lightning Express / Lightning / WinZoom / WinZoom Lite / iZoom / C-Desk / Others
 - 2. Current Mac Options: Apple Universal Access (Zoom) / Mac-nifier / Screen loupe / others
 - 3. **Updates and Additions** for PCs and MACs
Macs: OS X Lion
Zoomtext 10: Enhanced WebFinder; Recorder; Camera
- C. Speech Output: Screen Readers
 - 1. Current Windows Options: JAWS / WindowEyes / SuperNova Screen Reader / OutSpoken / Windows Narrator / Others
 - 2. Free Screen Reader Downloads:
Thunder 2.21: <http://www.screenreader.net>
Non Visual Desktop Access: <http://www.nvda-project.org>
NaturalReader 10.0: <http://www.naturalreaders.com/>
 - 3. Mac Options: VoiceOver Utility / NaturalReader 2.0
 - 4. Updates and Additions for PCs and MACs:
- D. Screen Magnification + Speech
 - 1. Current Options: ZoomText Magnifier/Reader / LunarPlus / WinZoom / Supernova / MAGic + JAWS / Guide / iZoom USB / C-Desk / others
 - 2. **Updates and Additions:** CDesk / others

II. Latest JPEG OCR for Text to Speech (computer-based and free standing units)

- A. Current units: K-NFB Reader Mobile / Intel Reader / Eye-Pal Solo / Eye-Pal Solo LV / Zoom-Ex / Zoom-Twix / MobilEyes / Eye-Flex / Ultima / Pearl / Eye Snap Reader / Eye Scan Reader / ClearReader+ / others
- B. **Updates and Additions:** ClearReader+ Advanced (adds monitor and remote) / SARA CE (Camera Edition) / Readit Wand / others

III. Speech Input + Output

- A. Guide Hands-Free / Magnitalk / J-Say Pro / Say-MAGic / CDesk
- B. **Updates and Additions:** CDesk (Peggy)

IV. Internet Access: Options

- A. Standard browser options / add-ons
- B. Free Web-based Screen Readers:
WebAnywhere: <http://webanywhere.cs.washington.edu/>
Screen Access to Go (SAToGo): <http://www.satogo.com/en/>
- C. **Updates:** Readability (updated 2011): <http://www.readability.com>

V. Video Magnification Systems

- A. **Update:** CCTVs with speech output and larger monitors:
 - 1. Orabis
 - 2. Vocatex Plus: 26", 32" and 37" monitors – expensive!
 - 3. DaVinci and Merlin Elite (Enhanced Vision)
- B. **Update:** Collapsible units: Prisma HD / ClearNote Portable / others
- C. **Update:** Portable Video Magnification Devices
 - 1. Miniature LCD Magnifiers: Crystal / Quicklook 2-GO / Explora / Maggie-Pro / Snow / Capture / Eye-C / others
 - 2. Note Taker (Arizona State Student Project)

VI. Cell Phone and Tablet Technology and Accessibility

- A. Accessibility built into iOS5 (iPhone, iPod Touch and iPad)
 - 1. VoiceOver (also in 4th gen and higher iPod Nanos and Shuffles)
 - 2. Zoom
 - 3. Large Text
 - 4. Inverted Colors
 - 5. Speak Selection
 - 6. Speak Auto Text
 - 7. Assistive Touch
 - 8. Multi Tasking Gestures (iPad only)
- B. iPhone / Droid / Blackberry Accessibility Apps (many free*)
 - 1. Magnifiers: iMagnify, Brighter and Bigger*, Mag. Light*
 - 2. Color identifiers: Color ID Free*, others
 - 3. Currency Identifiers: Eye Note* (from Bureau of Engraving and Printing: <http://www.eyenote.gov>); LookTel Money Reader
 - 4. Barcode readers: Shop Savvy*, oMoby*, Goggles*, Digit-Eyes
 - 5. Speech Recognition: Dragon Go! for iPhone*
 - 6. Speech to Text: Dragon Dictation; iPhone Language Translator
 - 7. GPS utilities: Ariadne GPS; Urban Spoon* (finds nearby restaurants)
 - 8. Email / Facebook / Twitter access: Voice Brief
 - 9. MANY other utilities (most work with VoiceOver):
Google Search* / Accuweather* / Yellow Pages*
HeyTell* / Evernote* / Shazam* / Talking Timer
VizWiz* / many games
 - 10. Siri for iPhone
 - 11. BrailleTouch; Braille app for tablets
 - 12. Free Mobile Accessibility Suite for Android Phones (Sprint)
- C. Accessibility apps for iPad
 - 1. Many the same as on iPhone/iPod Touch
 - 2. Accessible address book for iPad: ZoomContacts
- D. eBook readers and other tablets
 - 1. Amazon Kindles
 - a. Accessibility options
 - b. Kindle vs. iPad: pros and cons
 - 2. Barnes and Noble Nook with GlowLight
 - 3. Android accessibility

E. Accessible Cell Phones reference websites:

1. General info: <http://www.accessiblephones.com/>
<http://www.etoengineering.com/>
2. Android info: <http://accessibility-android.info/> and
http://eyes-free.googlecode.com/svn/trunk/documentation/android_access/index.html
3. iPhone / iPad Apps for the Visually Impaired:
<http://appadvice.com/applists/show/apps-for-the-visually-impaired>

VIII. Reference:

MDSupport Website: <http://www.mdsupport.org/resources/techproducts.html>

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NOTE: Technology changes at a rapid pace. Every attempt will be made to present the newest items; therefore, some items may not be included in this outline.