

# Alternate Media for E-Book Readers

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Tuesday, March 26, 2013

## Kindle

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Once you've connected your Kindle to a computer using a USB cable, your Kindle will appear in the same location as external USB drives usually appear. For Windows users, this is typically in the "Computer" or "My Computer" menu. For Mac users, the drive will appear on the desktop. Open the Kindle drive. You will see several folders inside, one of which will be named "documents." This is the folder you will move the downloaded file into.

Locate the downloaded file and copy it into the documents folder. You can generally copy files by clicking and dragging the file to the folder. Safely eject your Kindle device from your computer and unplug the USB cable. Your content will appear on the Home screen.

Finding the Send-to-Kindle e-mail address on your Kindle Keyboard

When you register your Kindle Keyboard, you'll automatically be assigned a Send-to-Kindle e-mail address. You can find this address from your Kindle Keyboard Settings screen:

From the Home screen, select Menu.

Select Settings.

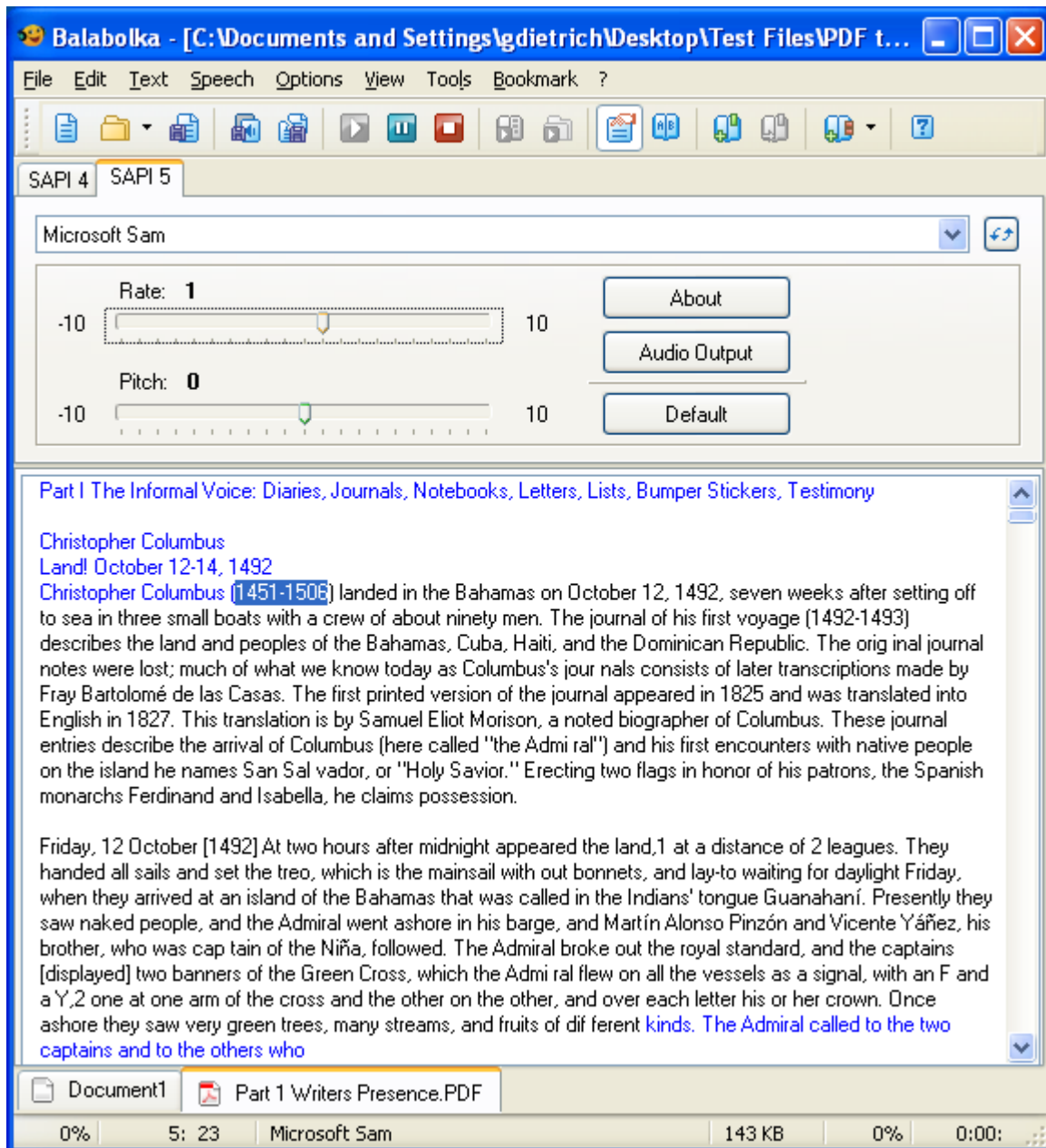
Your Kindle Keyboard's [\[name\]@kindle.com](mailto:[name]@kindle.com) e-mail address is listed under **Send-to-Kindle E-mail heading**

## Balabolka

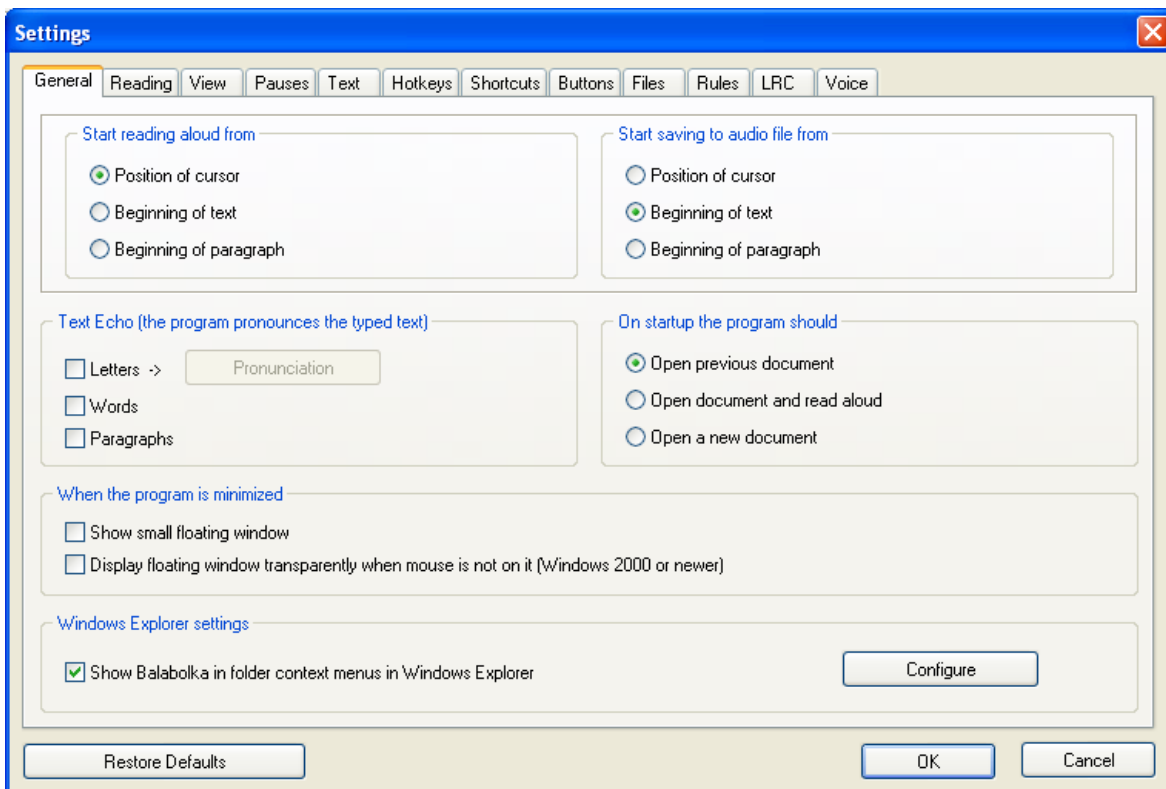
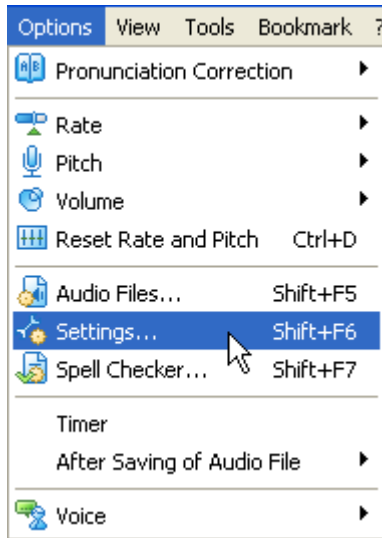
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Balaboka (<http://www.cross-plus-a.com/balabolka.htm>) is a free Text-to-Speech (TTS) tool that reads the clipboard content, as well as the text from AZW, CHM, DjVu, DOC, EPUB, FB2, HTML, LIT, MOBI, ODT, PRC, PDF and RTF files. Balaboka can use any voice that is currently available on your system.

The program allows you to customize font and background color, alter a voice's parameters, including rate and pitch, and even customize pronunciation of words. You can also save the speech as a WAV, MP3, MP4, OGG or WMA file.



Balabolka offers an array of settings to allow you to control the reading experience. Choose Options > Settings (Shift + F6).

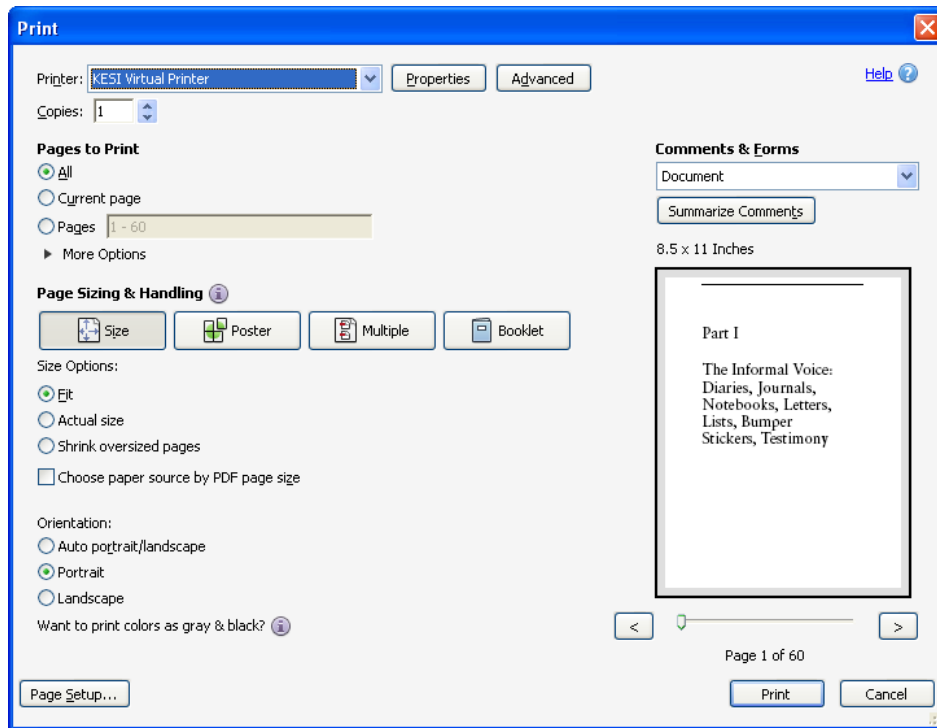


# PDF and Kurzweil

Kurzweil can handle PDF files in two ways: either through the KESI virtual printer or change the PDF to TIFFs and use the KESI automater. You can change a PDF to a TIFF by opening the PDF in OmniPage, not running the OCR, and saving directly to TIFF.

## KESI Virtual Printer

Often the best way to handle PDF files is to use the KESI virtual printer. Go to File > Print, and in your Print Window, choose KESI Virtual Printer as your printer destination.



## KESI Automater

The automater has been included with the Kurzweil 3000 Professional (formerly called Scan & Read) stations since version 7. You must manually install the automater by dragging it from the "Extras" folder on the installation disk to your computer. The files that you want to copy to your hard drive are K3Automator.exe and K3Automator.chm.

The automater allows you to create a source folder of documents that the Kurzweil 3000 will convert automatically to KESI files and save into a destination folder, keeping whatever file hierarchies you had set up intact.

## Steps for converting TIFF files to KESI with the automater.

Make sure that the version of Kurzweil 3000 installed on the computer is Professional (scan and read). To check this, open Kurzweil 3000, and in the menu bar, select "Help," "About." A window should pop up telling you what version of Kurzweil you have.

Step one: Create a directory called "Input Files" on your desktop and copy files to be converted into that folder. This will help speed up the process.

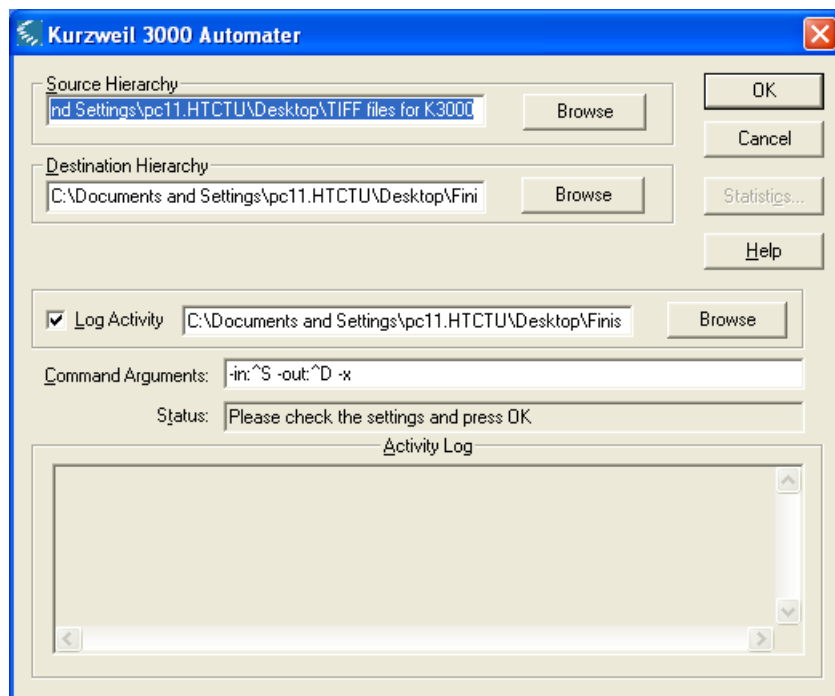
Step two: Create a directory called "Output Files" on your desktop. This is where the completed KESI files will be located.

Step three: Start the K3Automator and set the Source and Destination directories. To start the K3Automator double click on K3Automator.exe. Then set the Source Hierarchy to the "Input Files" directory, and set the Destination Hierarchy to the "Output Files" directory.

Step four: Click on the "OK" button on the K3Automator. This will start converting the files.

Step five: Wait. Once all the files have been converted, the K3Automator will stop.

Step six: Burn the file in the "KESI files" directory to a CD ROM.



Please note that the Automater works best when Kurzweil Professional is loaded onto the machine on which you are doing the conversions. Problems have been reported with the multiple user versions. Also, you may need administrator rights in order to utilize this program.

# MS Word

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Be aware that when you take text from OmniPage into Word, you may find that some of your text disappears. What has happened is that the spacing and font size are pushing text off a page, adjust the formatting and you will see the text again.

## Cleaning up Hyphens

OmniPage sees the hyphens that fall at the ends of lines and includes them in the text that goes into Word. To delete these hyphens, search for "optional hyphens" (^-) and replace them with nothing.

## Sources of E-text

4Literaturenet	<a href="http://www.4literature.net/">http://www.4literature.net/</a>
Alex Catalogue of Electronic Texts	<a href="http://www.infomotions.com/alex/">http://www.infomotions.com/alex/</a>
Arthur's Classic Novels	<a href="http://arthursclassicnovels.com/arthurs/search.html">http://arthursclassicnovels.com/arthurs/search.html</a>
Audio Books for Free	<a href="http://www.audiobooksforfree.com/">http://www.audiobooksforfree.com/</a>
Baen Free Library	<a href="http://www.baen.com/library/">http://www.baen.com/library/</a>
Bartleby	<a href="http://www.bartleby.com/">http://www.bartleby.com/</a>
Bibliomania	<a href="http://www.bibliomania.com/">http://www.bibliomania.com/</a>
Blind Bookworm	<a href="http://www.panix.com/~kestrell/sources.html">http://www.panix.com/~kestrell/sources.html</a>
Bookshare	<a href="http://www.bookshare.org/">http://www.bookshare.org/</a>
Camera Obscura	<a href="http://www.hicom.net/~oedipus/etext.html">http://www.hicom.net/~oedipus/etext.html</a>
Christian Classics	<a href="http://www.ccel.org/">http://www.ccel.org/</a>
Classic Bookshelf	<a href="http://www.classicbookshelf.com/">http://www.classicbookshelf.com/</a>
Classic Reader	<a href="http://www.classicreader.com/">http://www.classicreader.com/</a>
Digital Library—Online Books	<a href="http://digital.library.upenn.edu/books/">http://digital.library.upenn.edu/books/</a>
E-Editions—University of Nebraska Press	<a href="http://www.nebraskapress.unl.edu/e_editions.html">http://www.nebraskapress.unl.edu/e_editions.html</a>
English Server	<a href="http://eserver.org/">http://eserver.org/</a>
Etext Archives	<a href="http://www.etext.org">http://www.etext.org</a>
Free Books	<a href="http://www.free-books.org/">http://www.free-books.org/</a>
Hoover Institution	<a href="http://www-hoover.stanford.edu/publications/books/">http://www-hoover.stanford.edu/publications/books/</a>
Institute for Learning Technologies	<a href="http://www.ilt.columbia.edu/publications/digitext.html">http://www.ilt.columbia.edu/publications/digitext.html</a>
Internet Public Library	<a href="http://www.ipl.org/">http://www.ipl.org/</a>
Internet Public Library	<a href="http://www.ipl.org/">http://www.ipl.org/</a>
LiteralSystems	<a href="http://literalsystems.com/abooks/index.php">http://literalsystems.com/abooks/index.php</a>
National Library Services	<a href="http://www.loc.gov/nls/">http://www.loc.gov/nls/</a>
NetLibrary	<a href="http://www.netlibrary.com/">http://www.netlibrary.com/</a>
Online Books Page	<a href="http://digital.library.upenn.edu/books/">http://digital.library.upenn.edu/books/</a>



Online Literature Library	<a href="http://www.literature.org/">http://www.literature.org/</a>
PoemHunter	<a href="http://www.poemhunter.com/eBooks/">http://www.poemhunter.com/eBooks/</a>
Poetry Portal	<a href="http://www.poetry-portal.com/index.html">http://www.poetry-portal.com/index.html</a>
Project Gutenberg	<a href="http://www.promo.net/pg">http://www.promo.net/pg</a>
Representative Poetry Online	<a href="http://eir.library.utoronto.ca/rpo/display/index.cfm">http://eir.library.utoronto.ca/rpo/display/index.cfm</a>
Revealweb	<a href="http://www.revealweb.org.uk/">http://www.revealweb.org.uk/</a>
RFB&D	<a href="http://www.rfbd.org/">http://www.rfbd.org/</a>
Tech Classics Archive	<a href="http://classics.mit.edu/">http://classics.mit.edu/</a>
The Blind Bookworm	<a href="http://www.panix.com/~kestrell/sources.html">http://www.panix.com/~kestrell/sources.html</a>
The Sound of Literary Works	<a href="http://verkaro.com/audio/doku.php">http://verkaro.com/audio/doku.php</a>
Unabridged: Digital Audio Books	<a href="http://unabridged.lib.overdrive.com/">http://unabridged.lib.overdrive.com/</a>
University of Adelaide Library	<a href="http://etext.library.adelaide.edu.au/">http://etext.library.adelaide.edu.au/</a>
University of California Press	<a href="http://texts.cdlib.org/escholarship/titles_public.html">http://texts.cdlib.org/escholarship/titles_public.html</a>
University of Virginia	<a href="http://etext.lib.virginia.edu/">http://etext.lib.virginia.edu/</a>
Victorian Women Writer's Project	<a href="http://www.indiana.edu/%7Elettrs/vwwp/vwwp%2Dlibrary.html">http://www.indiana.edu/%7Elettrs/vwwp/vwwp%2Dlibrary.html</a>
Wowio Free Books	<a href="http://www.wowio.com/">http://www.wowio.com/</a>

## **Online Reference Resources**

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<b>Category</b>	<b>Type</b>	<b>Web Site</b>
Dictionary	Dictionary	<a href="http://www.dictionary.com">www.dictionary.com</a>
Dictionary	All Words	<a href="http://www.allwords.com/">http://www.allwords.com/</a>
Dictionary	Cambridge Dictionaries Online	<a href="http://dictionary.cambridge.org/">http://dictionary.cambridge.org/</a>
Dictionary	Children's Dictionary	<a href="http://www.wordsmyth.net">http://www.wordsmyth.net</a>

<b>Category</b>	<b>Type</b>	<b>Web Site</b>
Dictionary	Confusing Words	<a href="http://www.confusingwords.com">www.confusingwords.com</a> ,
Dictionary	Encarta	<a href="http://www.encyclopedia.com">www.encyclopedia.com</a>
Dictionary	Explanations of Technical Terms	<a href="http://whatis.techtarget.com/">http://whatis.techtarget.com/</a>
Dictionary	MerriamWebster	<a href="http://www.m-w.com">www.m-w.com</a>
Dictionary	One Look	<a href="http://www.onelook.com">www.onelook.com</a>
Dictionary	Quotation Dictionary	<a href="http://www.askoxford.com">http://www.askoxford.com</a>
Dictionary	Talking Dictionary Program for VI	<a href="http://www.talkingsoftware.gothere.uk.com/html/talking_dictionary.html">http://www.talkingsoftware.gothere.uk.com/html/talking_dictionary.html</a>
Dictionary	Words Commonly Confused	<a href="http://homepage.smc.edu/reading_lab/words_commonly_confused.htm">http://homepage.smc.edu/reading_lab/words_commonly_confused.htm</a>
Dictionary	Your Dictionary	<a href="http://www.yourdictionary.com">www.yourdictionary.com</a>
General Reference	General Reference	<a href="http://www.refdesk.com">http://www.refdesk.com</a> <a href="http://www.ipl.org">http://www.ipl.org</a>
General Reference	Information on Web-related Issues	<a href="http://webreference.com">http://webreference.com</a>
General Reference	Purdue University Guides for Doing Research	<a href="http://www.lib.purdue.edu/rguides">http://www.lib.purdue.edu/rguides</a>
General Reference	Research Site	<a href="http://www.itools.com">http://www.itools.com</a>
Grammar	Daily Grammar:	<a href="http://www.dailygrammar.com/archive.shtml">http://www.dailygrammar.com/archive.shtml</a>
Grammar	Guide to Grammar and Writing	<a href="http://webster.commnet.edu/grammar/index.htm">http://webster.commnet.edu/grammar/index.htm</a>
Grammar	Hyper Grammar	<a href="http://www.uottawa.ca/academic/arts/writcent/hypergrammar/grammar.html">http://www.uottawa.ca/academic/arts/writcent/hypergrammar/grammar.html</a>

<b>Category</b>	<b>Type</b>	<b>Web Site</b>
Grammar	Knowing the Basics of Grammar	<a href="http://web.uvic.ca/wguide/Pages/GrammarToc.html">http://web.uvic.ca/wguide/Pages/GrammarToc.html</a>
Grammar	Grammar Lists	<a href="http://www.gsu.edu/~wwwesl/egw/grlists.htm">http://www.gsu.edu/~wwwesl/egw/grlists.htm</a>
Grammar	Online Grammar References	<a href="http://www.andromeda.rutgers.edu/~jlynch/Writing/">http://www.andromeda.rutgers.edu/~jlynch/Writing/</a> <a href="http://www.chompchomp.com/terms.htm">http://www.chompchomp.com/terms.htm</a>
Grammar	Online Writing Lab	<a href="http://owl.english.purdue.edu/">http://owl.english.purdue.edu/</a>
Grammar	Sentence Sense	<a href="http://webster.commnet.edu/sensen/part1/index.html">http://webster.commnet.edu/sensen/part1/index.html</a>
Grammar	The Online English Grammar	<a href="http://www.edufind.com/english/grammar/">http://www.edufind.com/english/grammar/</a>
Grammar	Reading/Writing Center Handouts	<a href="http://rwc.hunter.cuny.edu/writing/on-line.html">http://rwc.hunter.cuny.edu/writing/on-line.html</a>
Legal	Legislative Info	<a href="http://thomas.loc.gov">http://thomas.loc.gov</a>
Misc.	Study Guides and Strategies	<a href="http://www.studygs.net/digital.htm">http://www.studygs.net/digital.htm</a>
Thesaurus	Online Thesaurus	<a href="http://thesaurus.reference.com">http://thesaurus.reference.com</a>
Tutorials	BrailleNote, etc.	<a href="http://atto.buffalo.edu/registered/Tutorials.php">http://atto.buffalo.edu/registered/Tutorials.php</a>
Usage	Online Usage Guide	<a href="http://www.bartleby.com/usage/">http://www.bartleby.com/usage/</a>
Vocabulary	World Net Vocabulary Helper	<a href="http://poets.notredame.ac.jp/cgi-bin/wn">http://poets.notredame.ac.jp/cgi-bin/wn</a>

**Helpful link:**

<http://www.just-nothing.com/etext.html>

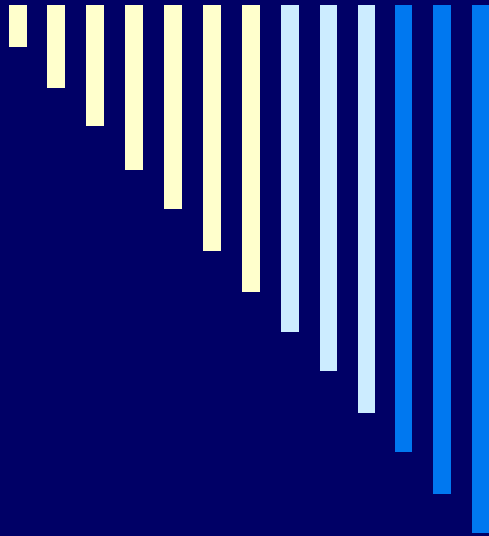
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# Overview

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# Outline for the Presentation

- Definitions
  - E-books and e-book readers
  - File formats
  - Converting files
  - Special issues
  - Institutional concerns & considerations
  - Apps for students in higher ed
-



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# Some Definitions

- E-text
    - Text a computer can read, also called electronic text, digital text (e.g., e-mail, Word docs, TXT, etc.)
  - E-book
    - Any digital book that can be accessed visually, may or may not be e-text
  - MP3 and WAV
    - Two formats for sound on the computer; MP3 is more compressed (i.e., smaller) than WAV
  - Text-to-Speech (TTS)
    - Text made audible by a computer-generated voice
-

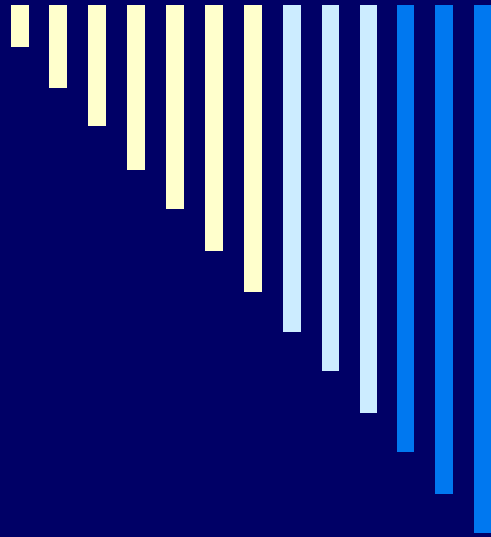


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# E-book Vocabulary

- XML
    - Extensible Mark-up Language (kind of HTML+)
  - EPUB
    - Open source XML-based format governed by the IDPF (International Digital Publishing Forum); DAISY specs are being incorporated into EPUB 3
  - MOBI
    - From “mobile”; an Internet domain (dotMOBI) and a file type
  - AZW
    - Amazon Word; format used on the Kindle
-





# E-Books and E-book Readers





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# December 2011 Survey

- Pew Survey of American adults 16 years and up—in the previous year...
  - 72% had read a printed book
  - 11% listened to an audiobook
  - 17% had read an e-book
- 
- Pew Research Center's Internet and American Life Project ([pewinternet.org](http://pewinternet.org))
-



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# Readers of E-books Say...

- ❑ 42% said they consume their books on a computer
  - ❑ 41% consume their books on an e-book reader like original Kindles or Nooks
  - ❑ 29% consume their books on their cell phones
  - ❑ 23% consume their books on a tablet computer
- 
- ❑ Pew Research Center's Internet and American Life Project ([pewinternet.org](http://pewinternet.org))
-

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# Be Aware!

- The individuals surveyed are reading these e-books visually.
  - Accessibility features will vary by device and format.
  - Not all e-books are accessible!
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# Types of Devices

- Dedicated readers
    - Kindle, Sony, Nook
    - DAISY players
  - Tablets
    - Kindle Fire (books and videos)
    - Android & iOS devices
  - Smart phones
  - Laptop and desktop computers
-



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# What's the Difference?

- Dedicated readers
    - Reading only
    - Reading experience determined by the device
  
  - Tablets, Laptops, Smart Phones
    - Multiuse
    - Reading experience determined by the “apps” on the device
-



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# Considerations

## □ Basics

- Portability, ease of use, functionality, cost, number of devices

## □ Availability of books

- File formats
- E-text vs. visual text
- Pleasure reading vs. studying

## □ Coolness

- Yes, it's cool...but is it accessible???
-



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# Access in General

- Tablet-type devices have greater functionality and flexibility
    - Are really just small computers
  - But dedicated readers might work better for some individual's needs
    - Mobility impairments and low vision in particular
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# Lighting and Accessibility

## □ Back-lit reading

- Light source from behind—computers, iPad, etc.
- Research indicates may be helpful for individuals who have low-vision

## □ Top-lit reading

- Light source from above—printed books, Kindle e-Readers (e-Ink readers)
  - Research indicates may be better for individuals with learning disabilities
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# iPad/Android in General

- Zoom and enlarge
  - Screen reader
    - iOS natively (Voice Over)
    - Android with an app
  - Content TTS
    - Depends on the app
  - Handle captions
-



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# Kindle—Dedicated Readers

- Kindle 1 and Kindle 2
    - Built-in TTS capability but not always available
    - No audio menus or menu enlargement
    - Text enlargement available
      - Max is 16 point font
  - Amazon's readers
    - Designed to work with Amazon purchases
-

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# New Kindle e-Ink Reader

- Kindle Paperwhite
    - No audio or TTS capability
    - Text enlargement good
  - PageBot (Orin Technologies) provides switch-activated access to the Kindle
-



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# Kindle Fire HD\*

- Multimedia reader (books and videos)
  - TTS built in (IVONA)
  - Audio navigation
    - Menus: Voice Guide
    - Touch Screen: Explore by Touch
  - Text access
    - Enlarge font, adjust margins
    - Contrast: text white on black; black on white or sepia
  - Built-in dictionary
  - \*Note: original Kindle Fire NOT accessible
-



# Kindle Software

- Kindle for PC Accessibility Plug-in
  - Same Kindle library on PC
- Navigation
  - Voice-guided menu navigation
  - Keyboard navigation and accessible shortcuts
- Text
  - Large font sizes; high contrast reading mode
  - TTS reading with adjustable voice settings for documents
  - Optional: Can use with screen reader program, including NVDA
- Kindle for iPhone free app

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# Nook

- Barnes and Noble's reader
  - Older Nooks not accessible
  - Newer Nook HD
    - Has TTS (Pico from Svox)
    - Note reviews of TTS not high so far
-

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# Nook Software

- Nook app for iOS
    - Supports VoiceOver
    - Supports zoom
  
  - Nook on PC
    - Nice enlargement but otherwise not very accessible
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# Sony Reader

- No text to speech capability
  - Built in dictionary
  - Text enlargement and zoom
    - Up to 72 point font size
  
  - Interface not enlargeable and contrast low
-



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# Sony Reader Software

- Reader for Android app
    - Adjustable font size and contrast
    - FBReader reads Sony books and has TTS
  - Reader for PC and Mac
    - Adjustable font size and contrast
  - Reader for iPhone and iPad
    - Adjustable font size and contrast
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# Readers and Computer

- All the dedicated readers also have apps for the computer
  - A combination may work for some students
    - Reader for portability
    - Computer software for greater access
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# Summary

- Dedicated readers may work for some students who primarily read visually
    - However, none of them **fully** accessible
  - Tablets better choice for anyone needing text verbalized
  - Suggest students test before buying!!!!
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# Dedicated Readers Useful...

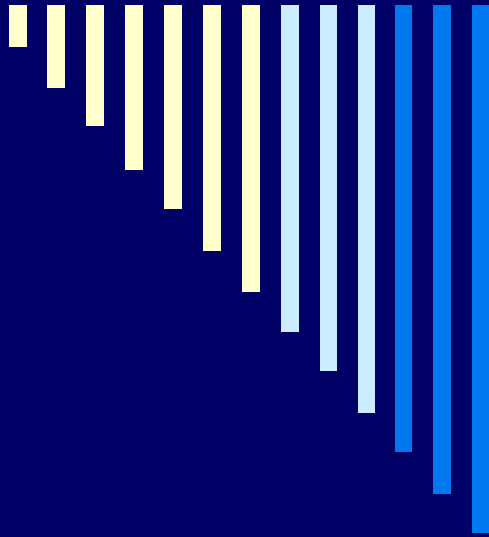
- For students with mobility challenges
    - All books in one portable device
    - Choice of button configurations—choose based on ease of use
  - For students with low vision
    - Most have some level of enlargement
    - Some also have zoom
    - Some have background control
-



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## Tablets Useful...

- For general, overall access
  - For individuals who need greater enlargement or background controls
  - For those needing TTS
  - For those who want a “multiuse” device
  
  - However, functionality is totally dependent on the apps
    - Not all apps are accessible
-



# Apps for Students in Higher Education



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# Educational Uses

- ✦ Educational apps
    - ✦ Note taking, reading, studying
  - ✦ Recommended apps all have high ratings
  - ✦ Android and iOS apps
    - ✦ Always check for accessibility
-



# Reading-iOS

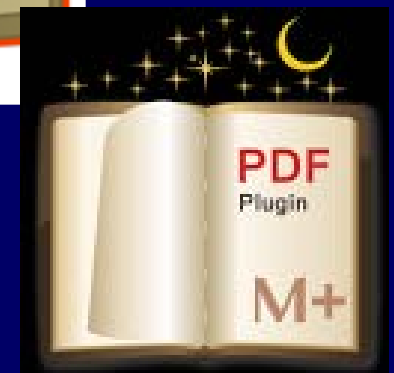
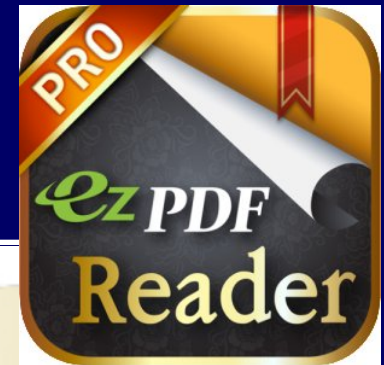
- ezPDF Reader
  - PDF reader, annotate, TTS
- Voice Dream
  - PDF, ePub, Word, TXT, TTS
  - Dropbox & Google drive compatible
- vBookz
  - TTS book reader
  - ePub, doc
  - Dropbox & Google drive compatible
  - PDF Reader available for Mac



# Reading-Android



- ezPDF Reader
  - PDF reader, annotate, TTS
  
- FBReader
  - ePub and PDF reader
  - Has TTS plug-in
  
- Moon+ Reader Pro
  - Supports TXT, HTML, EPUB,
  - Control color, line spacing, font size, orientation, TTS



# DAISY Players–iOS

## □ InDAISY

- Full-text/Full-audio DAISY player
- Supports DAISY 2.02 & 3 formats

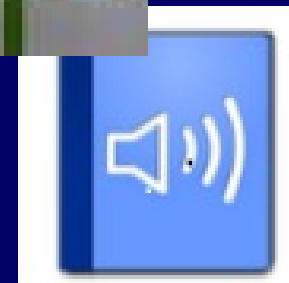
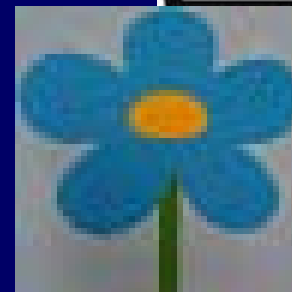
## □ VOD (Voice of DAISY)

- Full-text/Full-audio DAISY 2.02 player
- Learning Ally & Bookshare



# DAISY Players–Android

- Bookshare
  - Go Read
- Open Reader
  - DAISY 2.02 and ePub
- Darwin DAISY Reader
  - Control font, background color, voice speed, punctuation speech
  - DAISY 2.02 and DAISY 3.0



# Notetaking–iOS

## □ SoundNote

- Synchronizes text with audio

## □ Evernote

- Cloud-based, access notes from different platforms

## □ Notability

- Audio & notes synchronized
- Handwriting, drawing, keyboard, Web clipping, annotate PDFs





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# AFB AccessNote App

- ❑ For iOS: iPad, iPhone, Touch
  - ❑ Notetaker app
  - ❑ Works with QWERTY keyboard or refreshable braille keyboard
    - Shortcuts available for both keyboards
  - ❑ TXT format—export and import
  - ❑ Works with Dropbox
  - ❑ Works with VoiceOver and Zoom
  - ❑ Font enlarges to 22 point
-

# Notetaking–Android



- Extensive Notes–Notepad
  - Supports audio recordings, media attachments, and TTS
- Evernote
  - Cloud-based, allows access from different platforms
- Catch Notes
  - Capture text, audio, images, and synch with web



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# Notetaking—Kindle

- Notepad for Kindle Fire
  - Basic functions
  - Auto-save notes







# Practice Testing

- Quizlet (Android and iOS)
  - Many sample tests
  - Create your own materials
  - TTS
- Evernote Peek (iPad)
  - Turn notes, audio, images, etc. into study materials
  - “lift cover” to reveal question and answer



# Flashcards–iOS

## □ AnkiMobile

- Expensive, but desktop application is free
- Supports variety of media formats

## □ Flashcards+

- Large card bank or make your own, TTS in 22 languages

## □ Flashcardlet & Quizlet



# Flashcards–Android



- AnkiDroid
  - Free
  - Compatible with Anki Desktop
  - Many free decks available
- Flashcards Deluxe
  - TTS, good organization, create or download cards
- AnyMemo (Free & Pro)
  - Supports many media formats (audio & image)
  - TTS support
  - Import & Export between Mnemosyne, Supermemo, CSV, QA txt, and more





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# Flashcards—Kindle

- Kindle Flash Card Creator
    - <http://kindle-convert.bixly.com/>
    - Convert from Quizlet.com to Kindle
  
  - Can also purchase decks through Amazon
-

# Idea Mapping–iOS

## □ iThoughts HD

- Mind Manager/Inspiration-style interface
- Import & export support for many desktop applications (e.g., MindManager, Freemind, MindGenius)



# Idea Mapping–Android



## □ Thinking Space

- Mind Manager/Inspiration-style interface
- Import & export support for many desktop applications (e.g., MindManager, Freemind, xMind)



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# Whiteboard—iOS

- SyncSpace Shared Whiteboard
  - Easy to use, full screen, draw, pan, zoom
  - Lots of sharing options



# Whiteboard—Android

## ❑ SyncSpace Shared Whiteboard

- Easy to use, full screen, draw, pan, zoom
- Lots of sharing options

## ❑ Whiteboard Pro

- Easy to use, full screen, draw, pan, zoom
- Save and e-mail





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# Whiteboard—Kindle

- SyncSpace Shared Whiteboard
  - Easy to use, full screen, draw, pan, zoom
  - Lots of sharing options



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# Organizers & Schedulers

- All sorts available
    - Encourage students to find one they like
    - Especially helpful for anyone with challenges in cognitive functions
  
  - Available on iOS, Android, and Kindle
-

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# Other

- Khan Academy on iOS
    - Plays videos on iPhone or iPad
    - Many videos now captioned
      - Captions viewable on iPad, do not appear to work on iPhone
-



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# Apps from AT Vendors

- TextHelp
    - iReadWrite
  - Claro
    - Claro Speak
    - Claro PDF
  - Kurzweil
    - FireFly
-



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# iReadWrite App for iPad

- ❑ From TextHelp (makers of R&W Gold)
  - ❑ Reads RTF and TXT
  - ❑ Text-to-speech with highlighting
  - ❑ Control fonts, colors, and background
  - ❑ Word prediction
  - ❑ Phonetic spell checker; homophone and confusables checker, dictionary
  - ❑ Importing and Sharing documents
-



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# Claro Read for iOS

## □ Claro Speak

- TTS for text pasted or typed into the app interface
- Visual highlighting, color and font settings
- Word prediction for slight additional charge

## □ Claro PDF—Accessible Pro

- For viewing or reading PDFs
  - TTS with synchronized highlighting, control background color
  - Annotate, mark up, or draw on PDF
  - Works with VoiceOver
-



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# Kurzweil App

## □ firefly K3000

- Free mobile extension of K3000
  - Must have K3000 license to use
  - TTS with synchronized highlighting
  - Alt Media specialist can load files onto student's "bookshelf"
    - Must have Internet access to connect
-



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# Remember Laptop Computers!

- Free screen reader
    - NVDA
  - Free reading tools
    - Balabolka (Win)
    - Natural Reader (Mac & Win)
  - Low-cost reading tools
    - Text Aloud (Win)—\$30
    - Ghostreader (Mac) —\$40
-





# File Formats





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# Kindle

- File formats supported
    - AZW (Amazon format)
    - MOBI, TXT
    - PDF (later models)
  - Can convert
    - HTML, DOC, DOCX, JPEG, GIF, PNG, and BMP
-



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# Kindle Files

- E-mail conversion
    - HTML, DOC, DOCX, JPEG, GIF, PNG, and BMP converted to AZW
    - Audible and MP3
  - Convert with Calibre
  - Transfer
    - By USB
    - By Wi-Fi (when available)
    - By e-mail
    - Box (for Kindle Fire)
-



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# Sony Files

- File formats supported
    - BMP, JPG, GIF, PNG
    - EPUB, TXT
    - PDF
  - Can convert
    - Calibre
-

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# Getting Files on the Sony

## □ USB

- Install eBook Reader software on PC
  - Connect device with USB
  - Use eBook Library to transfer files
-



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# Nook

## □ File formats supported

- BMP, JPG, GIF, PNG
  - EPUB, TXT
  - PDF
  - MP3, AAC
  - MP4
  - XLS, DOC, PPT, PPS, TXT, DOCM, XLSM, PPTM, PPSX, PPSM, DOCX, XLX, PPTX
-

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# Getting Files onto the Nook

- USB connection
    - Device appears as an external drive
  - Wi-Fi transfer only on materials purchased through Barnes&Noble
-



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# Transfer to iPad

- iTunes
    - Save files to iTunes and sync
  - DropBox
    - Easy to get onto iPad
  - E-mail
  - FTP
  - Apps (e.g., [iFlashDrive](#)) let you use your iPad as a pseudo-thumbdrive
-





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# Transfer to Android

## □ USB

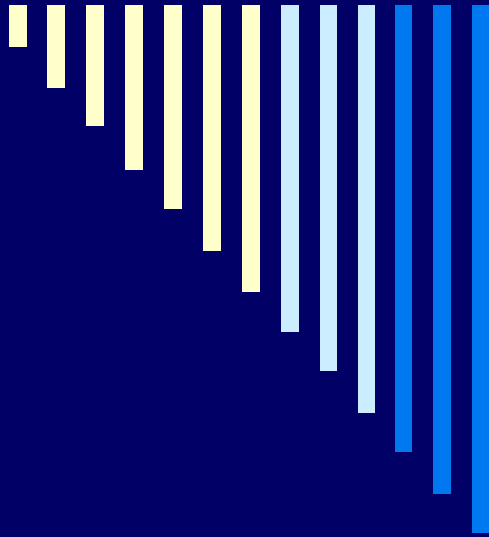
- On your Android phone, pull down the notification window (aka “window shade”) and tap USB connected.
  - Mount your phone; it will enter USB storage mode.
  - Drag-and-drop the desired file(s) to the drive.
  - In your phone’s notification window, tap Turn off USB storage.
-

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# Android Transfer

- Apps
    - Fast File Transfer
  - DropBox
  - FTP
  - E-mail
-



DAISY





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# What's DAISY

- **Digital Accessible Information System**
    - Digital talking books (DTB)
  - Audio files (human or electronic)
    - Navigable
      - By chapter, by page, by phrase
    - Can add, search for, and remove bookmarks
    - Have the ability to skim the text
-

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# DAISY Players

- DAISY players required to access full DAISY functionality
  
  - Player choices
    - Hardware
    - Software
    - Apps
-



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# DAISY Flavors

- Text only
    - Bookshare format
    - Listen using TTS
    - Can see and hear at the same time
  - Audio only
    - Learning Ally (formerly RFB&D)
    - Usually human narration, can be TTS
  - Both text and audio
    - Created on campus
    - See and hear the book (audio built in)
-



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# Playing the Flavors

- Text only
    - Requires a DAISY player with built-in text to speech (TTS)
  - Audio only
    - Human narration—no text to see
    - Works on any DAISY player
  - Audio and full text
    - Speech can be human or TTS (usually TTS)
    - Text and graphics can be seen on DAISY players with screens (software/Classmate)
-



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# Learning Ally DAISY

- Audio-only DAISY
    - Slowly adding full text, full audio
  - Requires authorized player
    - All new solid state players “preauthorized”
  - Other players can have “key” installed
  - User requires code to “unlock” books
-





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# Reading Learning Ally

- Learning Ally Software
  - Learning Ally ReadHear
    - Mac and PC
- Learning Ally Audio App
  - iOS app



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# Bookshare DAISY

- Text-only DAISY
  - Requires player with TTS built in
  - Software player comes free with membership
    - Note: Membership free for \*all\* students
  - Can also play on other systems
    - OpenBook, Kurzweil 1000/3000, WYNN
-



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# Reading Bookshare Books

- Software (with free Acapela voices)
    - Victor Reader Soft Bookshare Edition
      - PC only
    - READ Outloud
      - PC and Mac
  - Web Reader for Google Chrome
    - Read Now
-



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# Bookshare on the Go

- iPad, iPhone, iTouch

- Read2Go app

- Android

- Go Read

- Mobile phones

- Mobile Speak
-



# Comparison

## □ Learning Ally

- Small membership fee for all users
- CCCs currently sponsored
- Audio only
- Human narration
- Requires authorized hardware/software
- Requires “key” to unlock books

□ [www.learningally.org](http://www.learningally.org)

## □ Bookshare

- Free for students; small fee for others
- Text only
- Synthetic speech (TTS)
- Software player comes with membership
- Playable on some hardware players with TTS built in

□ [www.bookshare.org](http://www.bookshare.org)

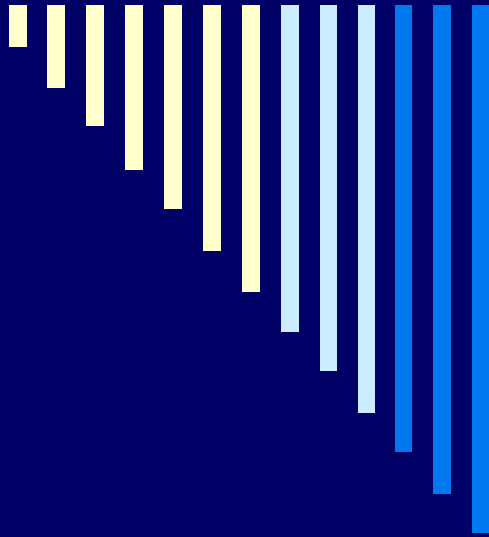
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# Please Note!

- When you load a DAISY book, it must go into its own folder
  - Do not put two DAISY books in the same folder
-



# Converting Files





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# Base format?

- All readers handle TXT
    - Also called text, ASCII
  - Can save from Word as plain text
  - If the student is having issues with the format, can always use TXT.
-



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# Looking Forward

- In the future, we can expect EPUB to be more widely supported
  - EPUB is incorporating the DAISY standard
    - Eventually we should see DAISY functionality in mainstream readers
-

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# Magic Conversion Tool

- Calibre

- Converts to and from many formats
- Fairly intuitive
- Free!

- <http://calibre-ebook.com/>

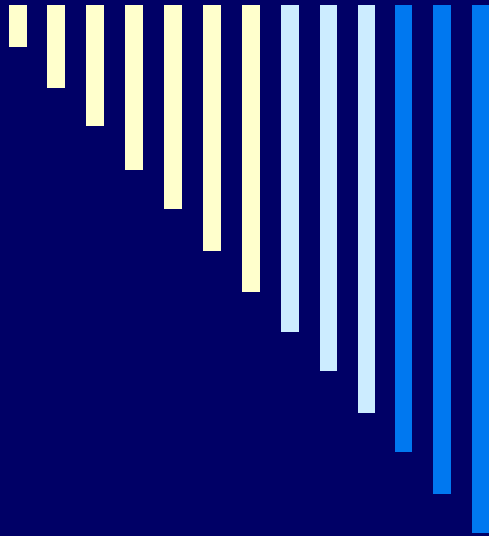
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# Another Conversion Tool

- TechAdapt
    - <http://www.techadapt.com/>
  - TechAdapt Accessible Media Center (TAMC)
    - For converting NIMAS and DAISY
  - DAISY to...
    - RTF
    - HTML
-



# Special Issues





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# Math

- Currently can only be verbalized in MathML & DAISY 3
    - Web language for math
    - Use MathPlayer
      - Free download from Design Science
  - Blind students may wish to learn LaTeX
    - Standard math rendering program
-

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# DAISY Math

- Bookshare working on creating DAISY Math books.
  
  - Remember Learning Ally!
    - Human read math
    - Graphics audio described
-



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# Chemical Formulas

- Anything beyond simple formulas will need to be written as text to be read
  - Tactile graphics or manipulatives for rendering molecules
  - Be aware of strange voicings
    - CO<sub>2</sub> = Colorado two
-



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# Foreign Language

- Must have a “voice” for that language
  - Voices do not translate
    - They use the accent of that language to pronounce the words
  - Alternating voices? TextAloud!
    - Must tell file when to switch, but saves information
    - Can create MP3
-





# Institutional Concerns & Considerations





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# Equipment Loan

- ❑ Develop a check-in process
  - ❑ Specify a procedure that resets the device back to original factory settings removing personal information
  - ❑ Choose whether to support students if they override device settings
  - ❑ Place devices in protective sleeves before issuing to students
-



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# Accounts

- iPads require an e-mail address
  - Some campuses assigning a generic e-mail account
    - Each iPad will need its own e-mail address (e.g., Account1@institution.edu, Account2@institution.edu, etc.)
  - Can use gift cards (or volume vouchers) to set up accounts
    - Or start by choosing a free app to skip credit card
-



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# Managing Accounts

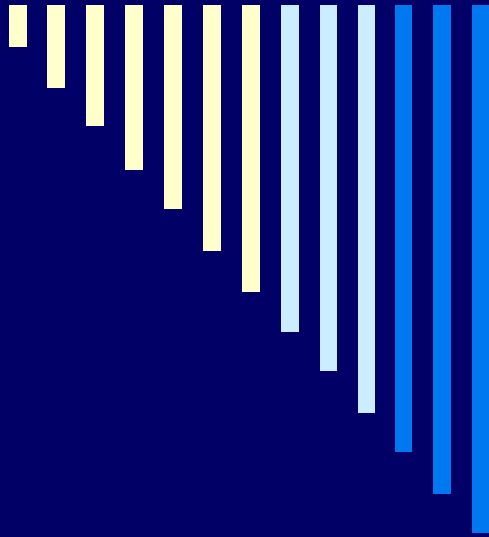
- Volume Purchase Program
    - Assign program manager
    - Educational discounts available
  - Apple Configurator
    - Mass configure devices
  - For quick install
    - Set up iCloud and sync with it
-



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# iPads in Labs

- Remember...it's just a cute computer
  - Know what you want to do with the device
    - Need educational apps
    - Check for bulk purchases of apps
  - May need additional Wi-Fi infrastructure
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# Helpful Resources

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# App Reviews

- Apple Vis

- BVI bloggers review apps
  - <http://www.applevis.com/>
-



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# Sources of Audio Books

- Learning Ally (formerly RFB&D)
    - [www.learningally.org](http://www.learningally.org)
  - Audible.com
    - [www.audible.com](http://www.audible.com)
  - Commercial books on tape
    - [www.amazon.com](http://www.amazon.com)
  - LibriVox
    - <http://librivox.org/>
  - Public library: Overdrive
-





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# Sources of Digital Text

- Bookshare
    - [www.bookshare.org](http://www.bookshare.org)
  - Project Gutenberg
    - [www.gutenberg.org](http://www.gutenberg.org)
  - Archive.org
    - [www.archive.org](http://www.archive.org)
  - World Public Library
    - <http://worldlibrary.net>
-

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# Other Resources

## □ Publisher files

- [www.atpc.net](http://www.atpc.net) (for CCCs)
- [www.accesstext.org](http://www.accesstext.org)

## □ Accessible Textbook Finder

- <http://www.accesstext.org/atf.php>
-