



# Learning Disabilities & Assistive Technology Solutions: An Overview

Carolyn Phillips and Martha Rust

Tools for Life

www.gatfl.org

www.amacusg.org

AT Solutions Lab LDA Conference Anaheim, California February 19 & 21, 2014



#### **Agenda**

- Tools for Life Overview
- Where we were, are & where we are going
- A look at Reading, Writing & Organization Solutions
- Questions





#### **AMAC**

AMAC Accessibility is a social change organization on a mission to create affordable services for governmental, private and nonprofits organization working with individuals with disabilities. Services include e-text, braille, captioning, assistive technology, office management software and consulting.



## **Accessibility Made Smart**

AMAC creates practical solutions that work, with a focus on utility, ease of use, and high quality.

- Accessibility Consulting focuses on organizational accessibility needs with evaluation, technical assistance, customer support, and website accessibility solutions.
- Braille Services produces customized projects from both print materials and electronic text including partial books and chapters or graphics only using cutting-edge technology.
- Captioning Services makes classrooms, meetings, labs and other audio environments fully accessible for deaf or hard-of-hearing.
- Professional E-Text Producers provide high-quality e-text in many formats such as PDF, DOC, DAISY, and HTML.
- Certified Assistive Technology team provides on-site and remote
  assessments, demonstrations, training and technical assistance for education,
  work, and daily living environments.

For more information, please visit our website at <a href="https://www.amacusg.org">www.amacusg.org</a>



#### **Tools for Life Mission**

We're here to help Georgians with disabilities gain access to and acquisition of assistive technology devices and assistive technology services so they can live, learn, work, and play independently in the communities of their choice.

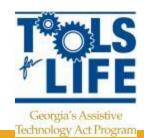






## Tools for Life Georgia's Federal AT Act Program

- TFL developed Georgia's Plan for AT
- We serve individuals of all ages & all disabilities in Georgia
  - Over 50,000 thru various activities throughout the year
- TFL Network
  - Assistive Technology Resource Centers
  - Lending Libraries
  - Training and Demonstrations
  - AT Reuse
  - AT Funding Education/Assistance and Resources
- Online Resources
  - www.gatfl.org 12,000 unique visitors a month





## Do you remember these?



Benjamin Innes for The New York Times (Source: Blackwell History of Education Museum, Northern Illinois University)













# Ray Kurzweil Optical Character Recognition Text-to-Speech Synthesis Speech Recognition technology

First Reading Machine (1974)

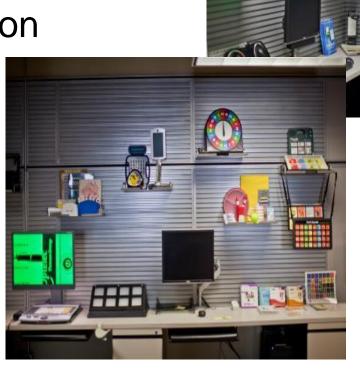
Kurzweil KNFB Reader (2009)

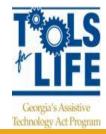




#### **Tools for Life AT Demo Lab**

- Tablets
- Vision Items
- DME
- Communication
- Games
- Software
- Switches
- Keyboards







## Looking Back to See Forward...

In 1990, the internet was something used by fantasy baseball fanatics on CompuServe and mobile phones were the size of toddlers — a luxury for those who could afford to not use pay phones. Satellite TV meant having a massive dish on your property; millions struggled with programming their VCRs to tape L.A. Law; bills were paid by check... in the mail.









#### **Future**

- Evening out the playing field
- More schools Bring Your Own Technology
- The Future is Contextual
  - GPS apps
  - Ads on Internet
  - Smart watches
  - Social Media
    - Proust.com





#### **VGo Telepresence Robot**

- Enables a person to replicate themself in a distant location and have the freedom to move around as if they were physically there
- Reduces travel costs
- School
- Hospital
- Work from home







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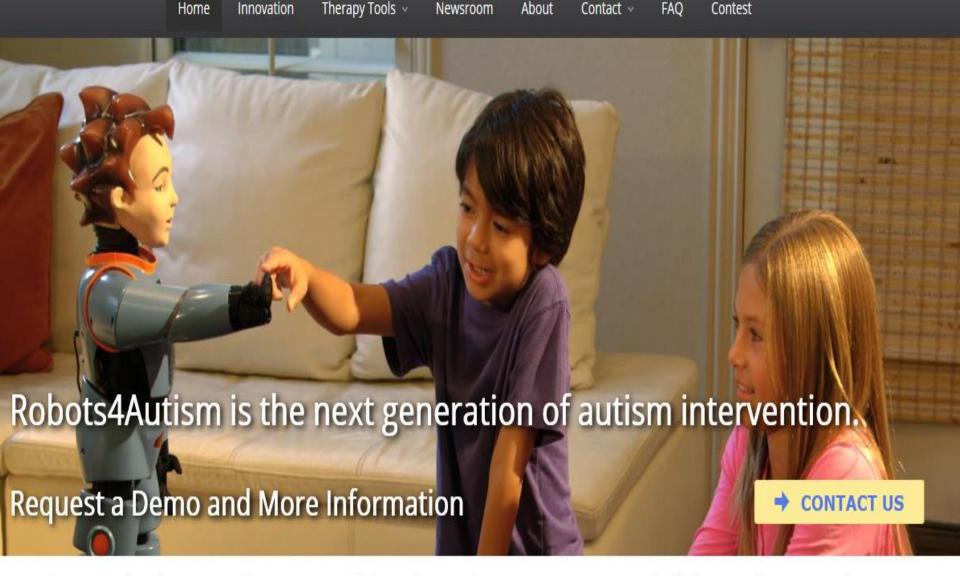
Search

#### "Exploring New Ideas with Advanced Social Robotics"

- an extension of humankind. RoboKind.





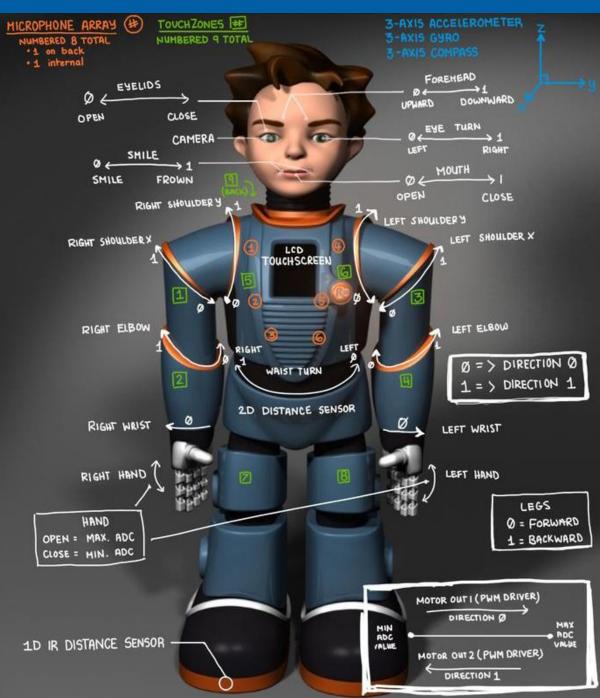


A revolutionary humanoid robot that engages children faster than traditional therapy and intrinsically motivates them to learn.

Our autism robot delivers innovative and research-based lessons that teach all aspects of social







## news@Vander

SEARCH

RESOURCES SUBS **VU NEWS** RIBE

#### Humanoid robot helps train children with autism

by David Salisbury | Posted on Saturday, Mar. 23, 2013 - 1:11 PM



#### Share This Story





















#### **Explore Story Topics**

Engineering and Technology, releases, Reporter, Research AIRA, Amy Swanson, ASD, autism, computer engineering, Esubalew Bekele, featured research, featured-Reporter, IDEAS grant, IEEE, joint attention, Julie Crittendon, kennedy center, mechanical engineering, Meredith Anne Thomas Foundation, NIH, NSF, Reporter March 29 2013, School of Engineering, TRIAD, Uttama Lahiri, zachary warren

#### Related Stories



Groundbreaking study finds children with autism hear and see out of SYNC JANUARY 15, 2014

#### Ten days with Google Glass

By Will Shanklin December 23, 2013



#### www.lenscrafters.com

Official Site, Visit Us Now & Savel Designer Eyewear, Lenses, & More.





























tech. So we thought it was fitting to sign up for the Google Glass Ex program, to give you a better idea of what Sergey Brin and compa brewing up in Mountain View. Though we aren't quite ready to di proper Google Glass review, we want to share some more thou our first ten days with Glass.







### **Technology Changes Fast**

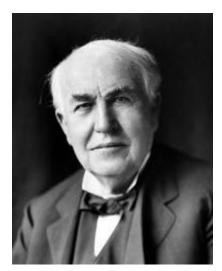
- June 2007- 1<sup>st</sup> iPhone
- Sept 2007- 1<sup>st</sup> generation iPod Touch
- October 2008- 1<sup>st</sup> Android phone sold
- April 2010- 1<sup>ST</sup> iPad
- 2010- Google launched its Nexus series of tablets and smartphones
- 50 billion downloads!



# Books will soon be obsolete in schools. Scholars will soon be instructed through the eye.

-Thomas Edison







#### What We Know

- Test Scores influence key decisions in education
  - Common Core Standards
- Accommodations are usually after the fact
- Accommodations are:
  - Intended to reduce or eliminate the effects of a student's disability
  - Do not reduce learning expectations
  - Level playing field, not provide undue advantages



- Majority of students with Learning Disabilities have reading disabilities
  - (Shaywitz, 2003)
- Even as they progress and get older, students with learning disabilities may read more accurately with more automaticity however are likely to remain slow readers and benefit from extra time
  - (Gregg, Mather, Shaywitz, 2003)



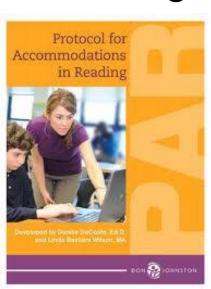
#### Research

- Research show that having items read aloud can improve fluency and comprehension
- Text Readers
  - Increase word recognition, speed of reading and comprehension
  - Increase the amount read, reduce distractibility
    - (Hecker, Burns, Elkind, Elkind, and Katz, 2002)



### PAR: Protocol for Accommodations for Reading

- Don Johnston
- Assist with accommodations for reading
- 3 Steps
  - 1) Student's Oral Reading
  - 2) Adult Reader
  - -3) Text Reader
- How did the student like?
- Help with adding in AT for reading solutions





#### What is E-Text?

- Any text-based information that is available in a digitally encoded humanreadable format
- Can be read by electronic means
- May be an electronic edition of a work originally composed or published in other media, or may be created in electronic form originally



#### Free e-text

- Project Gutenburg
  - http://www.gutenberg.org/
- Internet Public Library
  - http://www.ipl.org/
- The Online Books Page
  - http://onlinebooks.library.upenn.edu/





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### Free e-Text Readers

- NaturalReader
  - <a href="http://www.naturalreaders.com/">http://www.naturalreaders.com/</a>
- E Text Reader IGT
  - http://download.cnet.com/E-Text-Reader-IGT/3000-2279 4-10285673.html
- Text2Speech
  - <a href="http://www.text2speech.org/">http://www.text2speech.org/</a>



## **Portable Readers**



#### What is DAISY?

- Digital Accessible Information System
  - At its conception A used to mean Audio
- Digital Talking Book (DTB) specification for accessible digital textbooks
- Internationally recognized accessible multi-media publishing system, compatible with the World Wide Web
- http://www.daisy.org/publications/docs/200 70315155100/intro-article1.html



#### **BookSense**

- Compact and portable DAISY reader
- Compatible with a wide rage of audio format
- Built-in text to speech engine to read a variety of documents
- Ability to record notes

- Listen to books and music on the go
- \$299
- http://www.himsinc.com/products/boo ksense/





## Victor Reader Stream (new generation)

 Handheld media player by Humanware



- Plays DAISY books, MP3, MP4, EPUB
- Records voice and media
- Two built-in, humansounding voices
- Built-in wireless networking capability
- \$369



## **Reading Pens**

- Scans text,
- Hear it spoken aloud
- Obtains definitions and correct pronunciation within seconds
- Variety of types
  - Wizcom
  - IRISPen
  - PenPower
  - Video Touch Pen by MoralRegion







## AnyBook Anywhere

- Use to record your voice reading the story
- 200 hours of recording
- Works with any book
- Store recordings on a virtual library
- Share collections with friends
- \$79.99
- www.franklin.com





### Mobile Tablets/ eReaders

- What do I need?
- Does it read out loud?
- Do I need Apps?
- Change colors?
- Change line spacing?
- Textbooks?
- Fun Reading?





## Audiobooks





# **Learning Ally**

### Learning Ally



- DAISY
- Membership required
- over 75,000
   audiobooks, audio
   textbooks, and other
   recorded books
- Free Trial



testaccount4		Table	of conten	ts	Play
	eometry Connections, Version 3.1				
Level 1		TOC	Page	Bookmark	-
Geometry Conne	ctions, Version 3.	1			0
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Navigation Guide	,				
Front					
Table of Contents	s				
Chapter 1					
Chapter 1 Ck	osure				
Chapter 2					
Chapter 2 Ck	osure				
Chapter 3					
Chapter 3 Ck	osure				
Chapter 4					
Chapter 4 Ck	osure				
Chapter 5					
Chapter 5 Ck	osure				
Chapter 6					
Chapter 6 Ck	osure				
Appendix A					
Appendix B					





### **Bookshare**

- Online Accessible Library
- Free membership to qualified students and schools
  - Textbooks if school is member
- 208,769 titles
- Serves individuals with:
  - Vision disabilities
  - Physical disabilities
  - Learning disabilities





Home Membership Getting Started Community Volunteer Contribute About Us Help Contact Us

Email Password Search
Remember Me Log In Forgot Password Sign Up

Search Advanced Search Browse

Quick Links
Newspapers & Magazines
Training
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### **An Accessible Online Library**

for people with print disabilities

# Free memberships for qualified U.S. students and schools!



Sign Up!

Learn more about Bookshare®



This project is supported by the U.S. Department of Education, Office of Special Education Programs (Cooperative Agreement #H327K070001). Opinions expressed herein are those of the authors and do not necessarily represent the position of the U.S. Department of Education. How many titles does Bookshare® have?

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### Ready for Back-to-School?

Make sure you're ready for the first day of class and a successful school year. Get Back-to-School tips, tutorials, and resources for educators, parents, universities and college students.



### Audible.com

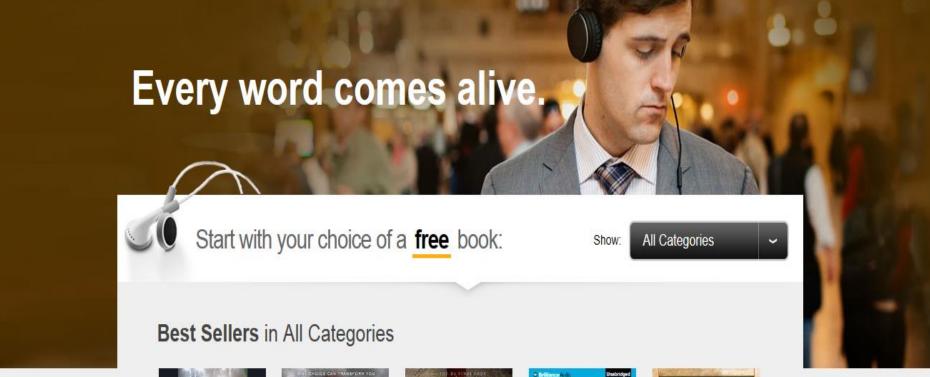
- Digital audiobooks
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- Over 150,000 titles
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  - \$14.95/ month for one book



About Membership

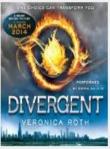
Search for a great book



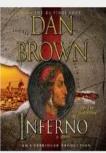




The Cuckoo's Calling



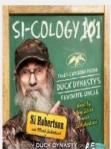
Divergent



Inferno: A Novel



The Fault in Our Stars



Si-cology 1: Tales and Wisdom from ...



# Scanning Software



### What is OCR?

- Optical Character Recognition
- Enables to convert different types of documents, such as scanned paper documents, PDF files or images captured by a digital camera into editable and searchable data
- Makes it easier for screen readers



### Kurzweil 3000



- Text-to-Speech software
- Helps improve reading speed and comprehension
- Note taking capabilities
  - Different color highlighters

- firefly
  - Access many features of Kurzweil through the internet
  - firefly demo
- Free download trial
  - www.kurzweiledu.com
  - Kurzweil 3000 Demo







# **TextHelp**

- Text-to- Speech software
- Helps improves reading skills
- Built in text and picture dictionaries
- Study skills highlighter

- Has a Google Chrom version
- www.texthelp.com







### **WYNN**

- What You Need Now
- Freedom Scientific
- Scanning and Reading software
- Highlights text as spoken
- Icon friendly
- Built in study tools

Internet Features

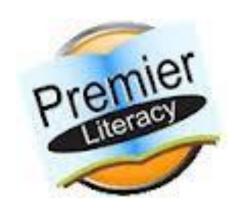






### **Premier Software**

- www.readingmadeeZ.com
- Read documents in standard file formats such as Microsoft Word, Rich Text, text file format, HTML, and PDF
- Converted to audio files for use on a CD or MP3 player
- Scan and read documents
- Look up a word or definition in the integrated dictionary
- Create study notes and much more!





### **Premier Features**

- PDF Equalizer
- E-Text Reader
- Universal Reader Plus
- Scan and Read Pro
- Talking Word
   Processor

- PDF Magic Pro
- Text-to-Audio
- Ultimate Talking Dictionary
- Talking Calculator
- Premier Predictor
   Pro



# Reading Software



### **ClaroRead**

- Reads text as it highlights
- Moveable tool bar
- Can read doc, PDFs, internet, and more
- 6.2 version
  - In Europe
  - Can save directly to I tunes
  - Create a video

- Can change highlighting colors
- www.claroread.com







# ClaroSpeak US



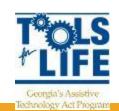


ClaroSpeak speaks back text with high-quality speech and highlighting so you can follow the words as they are spoken.

Tap the screen to place the 'cursor point' in the text. Then tap the Play icon to start speaking.

The text will be spoken from the start point with the highlighting and voice you have selected in Settings. To stop ClaroSpeak speaking, tap the Stop icon or tap anywhere in the ClaroSpeak title bar.

- Text-to-Speech
  - import documents and PDFs into ClaroSpeak from apps such as Mail, or import PDF, Word, Pages and other files directly from Dropbox using
- Change font and color
- Save text as an audio file
- Visual Tracking
- Send Text





# Learning Disabilities and Writing

- Dysgraphia- affects writing, which requires a complex set of motor and information processing skills
  - Poor Handwriting
  - Spelling
  - Organizing Thoughts
- Dyslexia- language processing disorder can hinder reading, writing, spelling and sometimes even speaking
- Executive Functioning- governs the ability to plan, organize and manage details
- Auditory processing disorder can cause difficulty in distinguishing the difference between similar sounds



# **Low Tech Solutions**

- Built up grips
  - Variety
  - Create your own using tennis balls
- Larger / thicker pencils
- Electronic Spellers
  - Franklin Spellers







### **Low Tech Solutions**





 "The Penagain takes a novel <u>ergonomic</u> approach to ink pen design. The body of the pen is shaped like a "Y" creating a cradle for the index finger to rest in." <a href="http://ergonomics.about.com/od/buyingguide/fr/frpenagain.htm">http://ergonomics.about.com/od/buyingguide/fr/frpenagain.htm</a>



 Wide barrel pens can make it easier for some people to write due to their contoured shape. With a Fat Ergonomic Pen there's more surface area to grip which makes it easier to write.





## **Software**

# Speech Recognition Software

 Turn spoken words into text

Accessibility for All

- Connect with the timing of your thoughts
- Dictation speed 70 to 100 words per minute

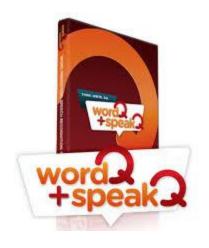


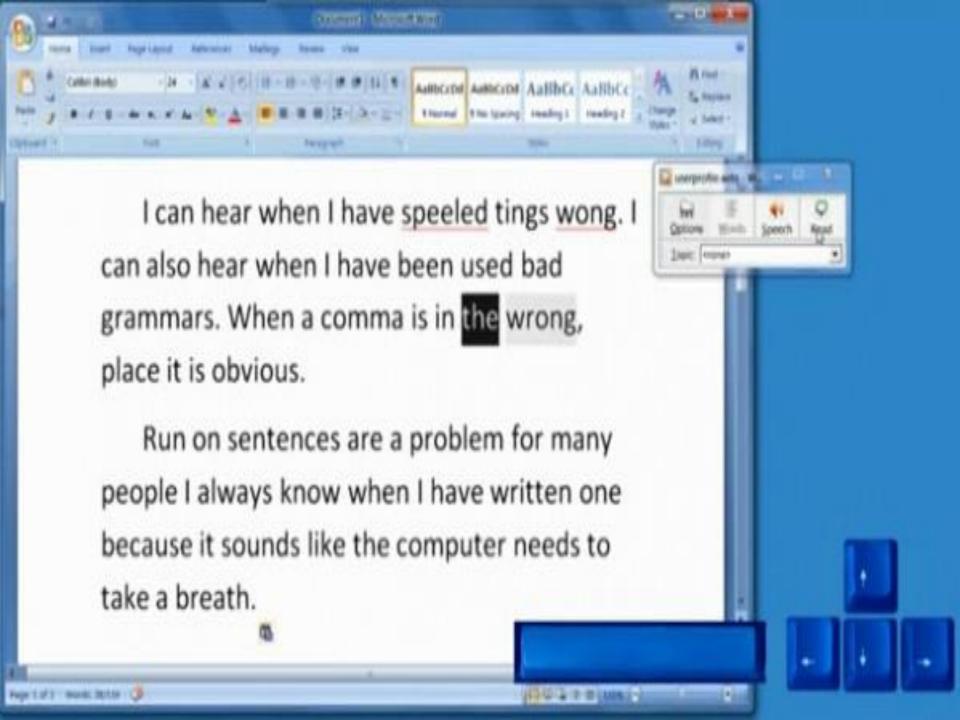


# Word Q/ Speech Q

- Software that has built-in word prediction
- Suggests words
- Spoken feedback to hear what was written
- Speech Q is a plugin for Speech Recognition

 30 day free trial <a href="http://www.goqsoftware.">http://www.goqsoftware.</a> com/trial/







# Ginger

- Online grammar and spell checker
- Can see corrections
   as you type or use
   Ginger Proofreader to
   scan the entire
   document for
   mistakes
- Will read corrections out loud

- Has an mobile Android app
- Works inside Word and emails
- Text to Speech
  - Read emails and docs
  - Can choose voice and accent
- Ginger Demo



### **Schools**

- Cheaper assistive technology
- They already know how to use
- Opportunities for Inclusion
- Promotes depth of learning
- Million of Apps
- Portable
- Like to use
- Equal access in educational settings
- Helps with organization





# Schools Jump On Board!

- Gibbon Fairfax Winthrop High School in MN
  - 1st non college/university school to purchase iPads to students
- Positive response from students
  - "They're easy to work with. I can do so many things with them instead of shuffling books and papers in my backpack."
  - "Easier to take notes"
- By 2014 Los Angeles County all students will have an iPad
  - 30 million dollars



# **Google Chrome**

- 22% of US schools are using Chromebooks
- 20 million students are using Google Apps for education
- Schools are finding that it saves in IT money
- Works across platforms!
  - Accessible apps
    - Readability, Texthelp, Snap Read





# **Google Chromebook**

- Great for Organization
- Items are stored in the Cloud
- Teachers can access student's work
- Email work as a Word Doc
- Chromebooks are affordable
  - -\$199.00
- No USB ports



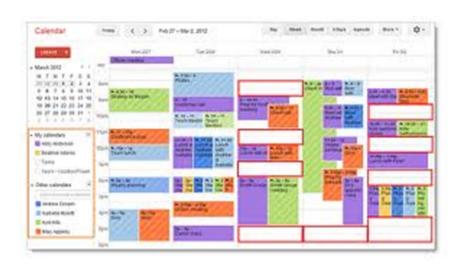


# Google Calendar

- Color Code items
- Share Calendars
- Access across multiple platforms



- Customize Notifications
  - SMS Text
  - Emails
  - Popups
- Multiple ways to view
  - Daily
  - Weekly
  - Monthly





### **Live Scribe Pen**

- Records what it hears and what you write
- Uses specific paper for playback
- Connects to computer by USB for saving
- Tap on note and playback from there
- Jump forward and back in notes
- Dictionary
- Translation Apps
- Purchase Apps online
- Demo



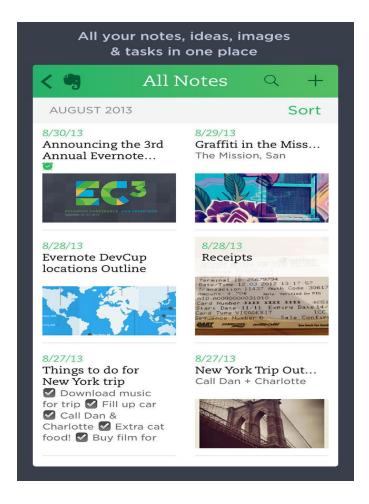


# **Apps**



### **Evernote**





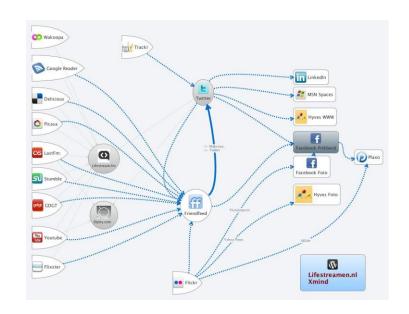
- Works across platforms
- Organize notes
- Create folders
- Import pictures
- Record Voice and Audio Notes
- Save Tweets
- Free



### **XMind**

- Free Mind Mapping software
  - Upgrade to pro version
- 7 built in themes
- Variety of Charts
- Can Import and Export
- Online Mind Map Library
  - Post to websites
  - Post to blogs

- Can Add Audio Notes
- http://www.xmind.net/



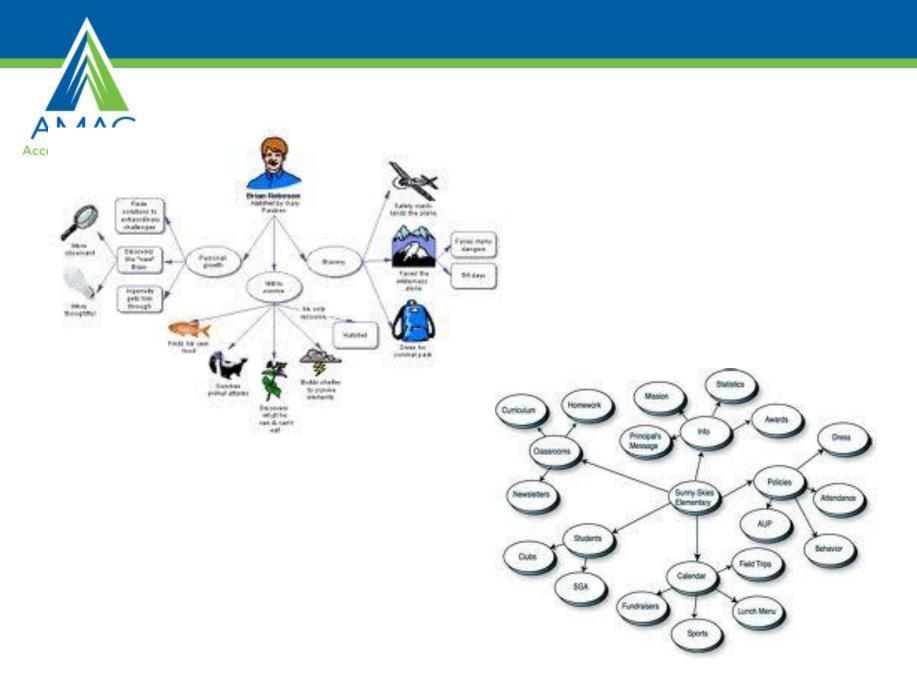


# Inspiration

- Mind Mapping software
- Allows User to "connect" ideas together
- Add in pictures and hyperlinks
- Can produce an outline form

- Better organization of essays
- \$39.95
- App \$9.99







# **Mobile Tablets**



### **Microsoft Surface**

- Windows 8
- Slim and has a USB port
- Moveable Tiles
- Built-in Accessibility
  - Speech-to-text
  - Narrator
- Thin pressure sensitive cover that doubles as a keyboard
- Starts at \$349







# Samsung Galaxy Tab 3





- Android System
- 7, 8, or 10 in screen
- Camera
- Micro card
- Wi-Fi
- USB for computer
- Some built-in accessibility app
  - Download others
- Starts at \$199.99





# AMAC Apple iPad/mini/ Touch

- Multi touch screen
- New iOS 7
- Millions of apps
- Surf web
- iTunes
- Videos
- Organization
- Accessibility
- Books
- Photos
- Speakers
- 5.0 megapixel camera



Height: 7.87 in Width: 5.3 in Depth: 0.28 in Weight: 0.68 lb



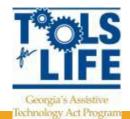


# TFL AppFinder



### Search by:

- ✓ App Name
- ✓ Categories
  - Book
  - Education
  - Environmental Adaptations
  - Hearing
  - Cognition, Learning,
     Developmental
  - Navigation
  - Personal Care and Safety
  - Productivity
  - Communication
  - Therapeutic Aids
  - Vision





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#### Welcome to Tools for Life

Tools for Life, Georgia's Assistive Technology Act Program, is dedicated to increasing access to and acquisition of assistive technology (AT) devices and services for Georgians of all ages and disabilities so they can live, learn, work and play independently and with greater freedom in communities of their choice.

Tools for Life and the TFL Network work collaboratively together to accomplish our mission through:

- AT Demonstration
- AT Evaluations and Assessments
- AT Funding Options & Education
- Access to the TFL AT Lending Libraries
- AT & Durable Medical Equipment Reuse
- AT Training (Individual)
- AT Training (Groups)

#### 2013 IDEAS CONFERENCE

2013 Institute Designed for Educating All Students Conference June 3 - 6, 2013 Epworth by the Sea, St Simons Island

- Submit a Proposal
- Conference Website
- Exhibitor Details

#### WEBINARS

APR

Free for All! Resources for Teachers and Students

18

APR 24

Assistive Technology and Adapted Recreation: A Perfect Match

Current Webinar Schedule Webinar Archives

#### APP FINDER



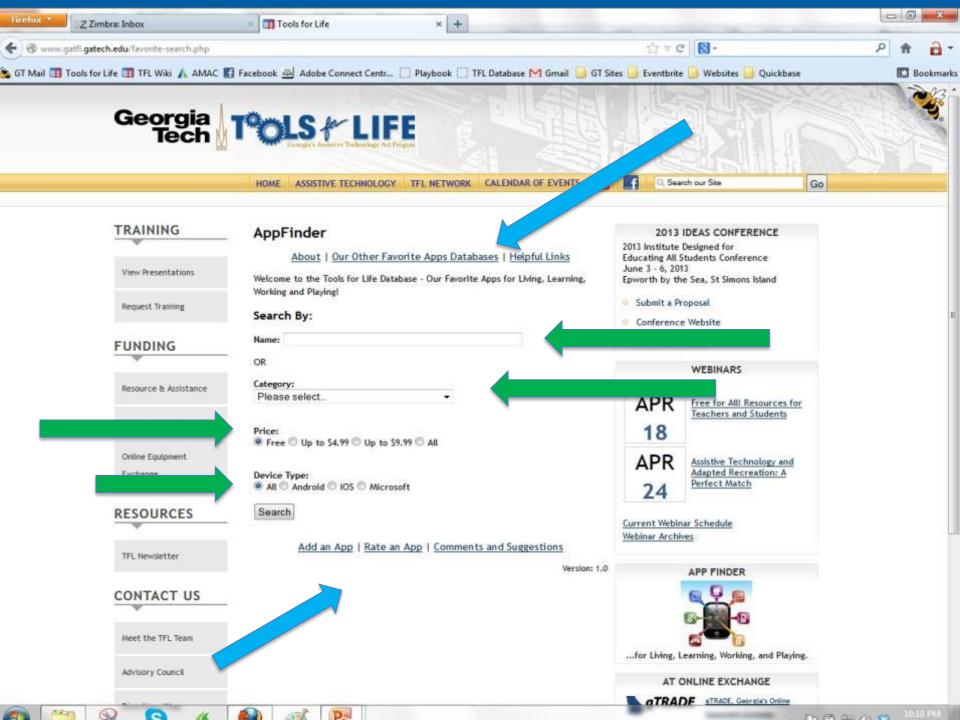
Living, Learning, Working, and Playing.

#### AT ONLINE EXCHANGE



gTRADE gTRADE, Georgia's Online Equipment Exchange,

encourages members to offer AT and DME for sale or donation to others who may benefit from using technology unneeded by others.





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### My Favorite Apps

You searched for: Learning, Cognition, and Developmental

Logo

Name

Category

Device Type

tango Video Calls

Tango brings you free, high-quality mobile voice and video calls over 3G and Wi-Fi! Millions of people around the world are using Tango in an exciting new way. It

Learning, Cognition, and iOS Developmental

No Ratings

i-promt

Professional Tele-prompting software for your iPhone or iPod Touch.

Learning. Cognition, and iOS Developmental

No Ratings

app icon



Dragon Dictation is an easy-to-use voice recognition application powered by Dragon

Learning, Cognition, and iOS **Developmental** 



5 stars by 1 users



iBooks includes the iBookstore. where you can download the latest best-selling books or your favorite classics

Learning. Cognition, and iOS Developmental

No Ratings



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#### 2013 IDEAS CONFERENCE

2013 Institute Designed for Educating All Students Conference June 3 - 6, 2013 Epworth by the Sea, St Simons Island

- Submit a Proposal
- Conference Website
- Exhibitor Details

#### WEBINARS

APR

Free for All! Resources for Teachers and Students

18

APR 24

Assistive Technology and Adapted Recreation: A Perfect Match

Current Webinar Schedule Webinar Archives

#### APP FINDER



...for Living, Learning, Working, and Playing.

#### AT ONLINE EXCHANGE



aTRADE gTRADE, Georgia's Online

Equipment Exchange.

encourages members to offer AT and DME for sale or donation to others who may benefit from using technology unneeded by others.



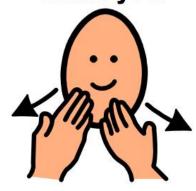


Our Question to You: What have You Learned today?





thank you





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#### Disclaimer

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