



AT 101: Begin with the End in Mind

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With contributions from Tools for Life Team

www.gatfl.org

For Handouts: <http://www.gatfl.gatech.edu/tflwiki>



Welcome to the Assistive Technology Revolution!

The world around us is evolving at an astounding rate. Assistive Technology developments have been foundational in this evolution and a catalyst for producing positive life-changing results for individuals with disabilities.

This session will take a closer look at:

- AMAC | Tools for Life – AT Act Program
 - Advocacy & Knowing Your Rights
 - Making and LD Evaluation Your Action Plan
 - Understanding Assistive Technology
 - Using “Low/Light Tech” to inform “Mid/High Tech Solutions”
 - Trends to Watch
 - where we are and perhaps, where we are going.
- ...all in 60 minutes!

For Handouts: <http://www.gatfl.gatech.edu/tflwiki>



AMAC

AMAC Accessibility is a social change organization on a mission to create affordable services for governmental, private and non-profits 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 www.amacusg.org

Tools for Life Website



- TRAINING
- FUNDING
- PUBLICATIONS
- TFL WIKI
- MEET THE TFL TEAM
- MEET THE ADVISORY COUNCIL
- DIRECTIONS/MAP
- JOIN OUR MAILING LIST
- SCHEDULE A TOUR

Welcome AT Services Try AT Get AT AT Guides Research



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:

IDEAS CONFERENCE

JUN 2

Epworth by the Sea, St Simons Island

WEBINARS

MAY 28

[Georgia's Leadership Model for Increasing Accessible ICT in State Government](#)

JUN 25

[Learn More and Do More: Exploring Accessibility and Apps for Android](#)

JUL 30

[Position for Work: A Closer Look at Workplace Accommodations & Assessments](#)

- Current Webinar Schedule
- Webinar Archives

TOOLS FOR LIFE APPFINDER



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

AT ONLINE EXCHANGE



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



Get to Know Your AT Act Program



[HOME](#) [ABOUT AT3](#) [AT ACT GRANTEES](#) [EXPLORE AT](#) [EVENTS](#) [CONTACT US](#)

Program Directory - Find Your State Program

Select a State to View Contact Information:

Georgia ▼

Tools for Life, Georgia's Assistive Technology Act Program
Georgia Institute of Technology
College of Architecture
AMAC Accessibility Solutions and Research Center

512 Means Street, Suite 250
Atlanta, GA 30318

Program Coordinator: Carolyn Phillips

Phone: (404) 894-0541
TTY:
Fax: (404) 894-8323

Email: info@gatfl.org
Website: <http://www.gatfl.gatech.edu>

Find Your State

Learn about the AT Act

Center for AT Act Data

ACL Admin Comm Living

- <https://www.at3center.net/stateprogram>

Considering the Lifespan





Transition Success: Consider This

- Our success relies on:
 - Being involved in “My Plan!”
 - Knowing myself
 - Self-Exploration
 - Who are you?
 - Learning style
 - What is your personal learning style?
 - Honestly exploring
 - What do I want to do when I grow up?
 - What assistive technology do I need to accomplish my goals?



Consider This

- Our Success relies on:
 - Failing
 - Dignity of Failure
 - I learned more from my “failures” sometimes than my “successes.”
 - Give yourself room to fail – and grow from the experience.
 - Learn to Laugh - a lot!
 - Be Optimistic
 - Evaluate & Evolve!
 - Building win-win-WIN relationships
 - Establishing a solid circle of support
 - Receiving and providing support
 - Diversify your Circle of Friends and Acquaintances
 - It sometimes is “Who you know”
 - BALANCE – Social Life and Studies



Successful Transitions Help Create a Successful Life Journey

- Teach Students to:
 - Get to know themselves
 - Plan for Success – in school, work, life!
 - Begin with the end in mind
 - Be able to tell their story
 - Listen & Learn
 - Try – Fail & Try again...
 - When things get off track - Evaluate and Evolve
 - Explore & USE Assistive Technology
 - Laugh much!
 - Celebrate their successes!!

Begin with the End in Mind!

- **Know Your Rights**

Why Assistive Technology?

- For a person without a disability, technology makes things easier....
- For a person with a disability, technology makes things possible.
- **TIP: USE AT. I have yet to meet a successful student with disabilities who doesn't use Any AT.**





What is an AT Service?

Assistive Technology Services

Any service that **directly assists an individual with a disability** in the selection, acquisition, or use of an assistive technology device.

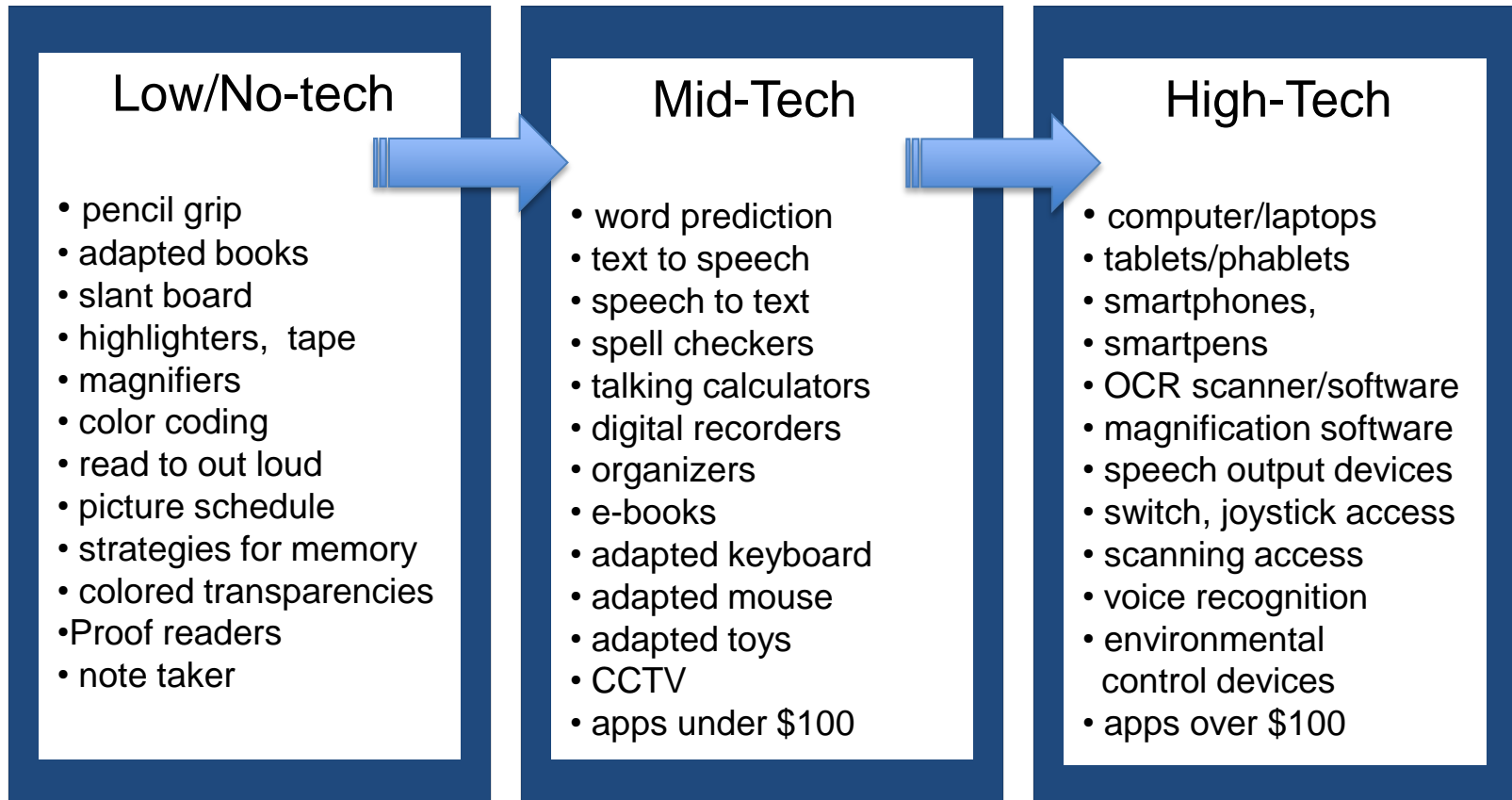
Includes:

- Evaluating
- Providing devices
- Selecting, Designing, Customizing
- Maintaining, Repairing
- Coordinating
- Training/Technical Assistance –student, family and school service providers

- Public Law 105-394 [29 USC 2201]

Observations & “Hanging out with Intent”

Assistive Technology is a **continuum of tools, strategies, and services** that match a person’s needs, abilities and tasks.



Moving from Information to Action

Evaluations for Learning Disabilities

- ☐ One to one assessment
- ☐ Comprehensive battery of tests
- ☐ Detailed report with recommendations for support in work and/or learning
- What did You learn in your LD Evaluation?
- Moving from Information to Action
 - Using your Evaluation results as an Action Plan for AT



Moving from Information to an AT Action Plan

Dyslexia

- A specific learning disability that affects reading and related language-based processing skills. Dyslexia is sometimes referred to as a Language-Based Learning Disability.
- The severity can differ in each individual but can affect:
 - reading
 - fluency,
 - decoding,
 - reading comprehension,
 - recall,
 - writing,
 - spelling, and
 - sometimes speech and can exist along with other related disorders.
- What does this information tell us regarding our AT Action Plan? <http://ldaamerica.org/types-of-learning-disabilities/>



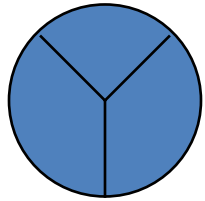
Building a Firm Foundation for AT Success!



The “FAST” Track

- **Frustration**
- **Anxiety**
- **Stress**
- **Tension**

Human Activity Technology (HAAT) Model



- Human: represents the skills and abilities of the person with a disability
- Activity: a set of tasks to be performed by the person with a disability
- Context: the setting or social, cultural and physical contexts that surround the environment in which the activity must be completed
- Assistive Technology: devices or strategies used to bridge the gap between the person's abilities and the demands of the environment

The SETT Framework

S = Student/Skills

E = Environment

T = Tasks

T = Tools



Adapted from Joy Zabala www.joyzabala.com

Exploring Assistive Technology Strategies and Solutions

- **Try before you buy**

Know Your Tablets

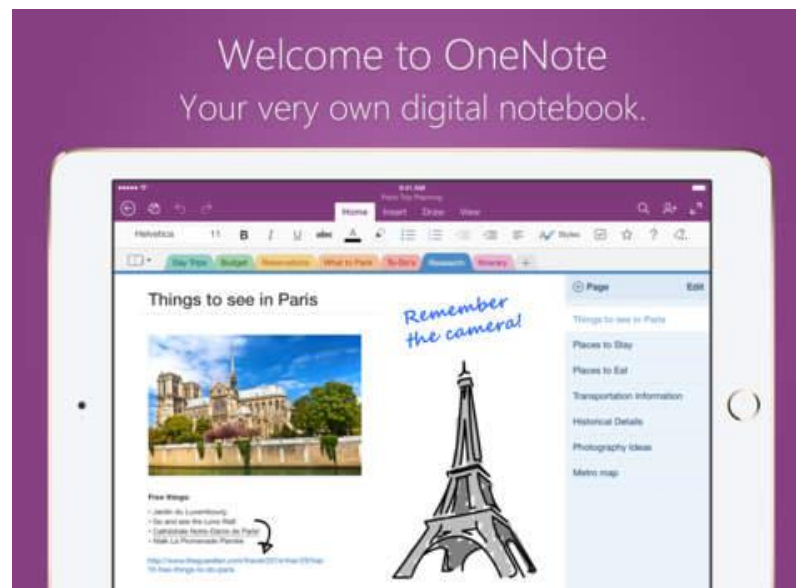
Mobile Tablets/ eReaders

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



Microsoft OneNote

- Crosses all platforms
- Type, write, or draw with the free form feel of pen and paper
 - Use stylus or finger
- Search and clip from the web to picture ideas
- Brings students together in a collaborative space or can give individual support in private notebooks

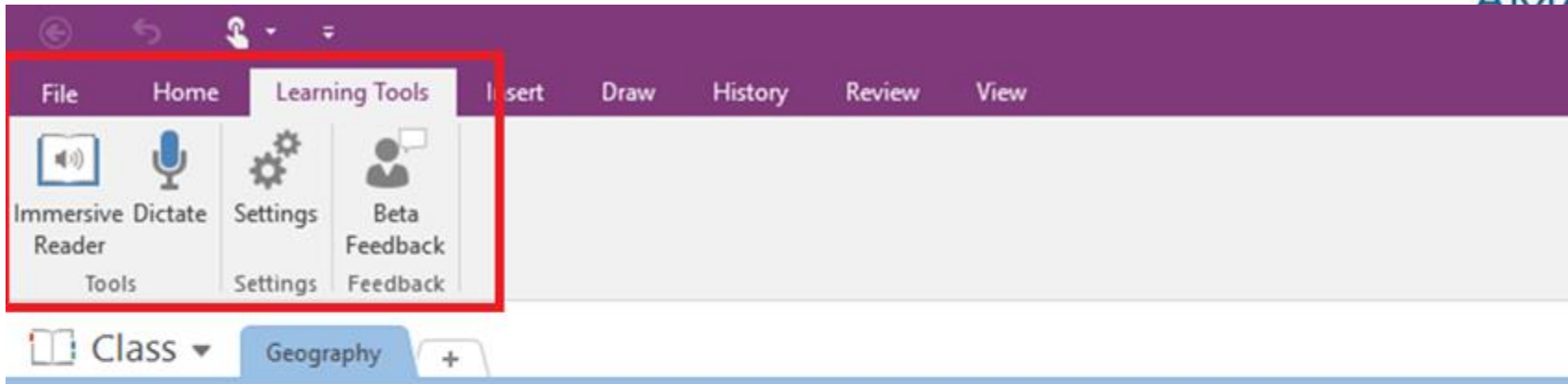


OneNote Learning Tools



Feature	Proven Benefit
Enhanced dictation	Improves authoring text
Focus mode	Sustains attention and improves reading speed
Immersive reading	Improves comprehension and sustains attention
Font spacing and short lines	Improve reading speed by addressing "visual crowding"
Parts of speech	Supports instruction and improves writing quality
Syllabification	Improves word recognition
Comprehension mode	Improves comprehension by an average of 10%

Learning Tools Toolbar



United States Geography

Wednesday, July 29, 2015 6:41 PM

The study of Earth's landforms is called physical geography. The seasons, the atmosphere and all the natural processes of Earth affect where people are able to live. Landforms can be mountains and valleys. They can also be glaciers, lakes or rivers. Landforms are sometimes called physical features. Geography is one of a combination of factors that people use to decide where they want to live.

Android Tablets

- Many different options for user preference
 - Amazon Fire
 - Samsung Galaxy
 - Lenovo Yoga
 - Asus ZenPad
- Wi-fi compatible
- Some accessibility built in



Apple iPads

- Three sizes/varieties
 - iPad Pro
 - 9.7 inches and 12.9 inches
 - iPad Air 2
 - 9.7 inches
 - iPad mini 4
 - 7.9 inches
- iOS 10
- Countless apps
- Organization
- Accessibility
- High quality photos



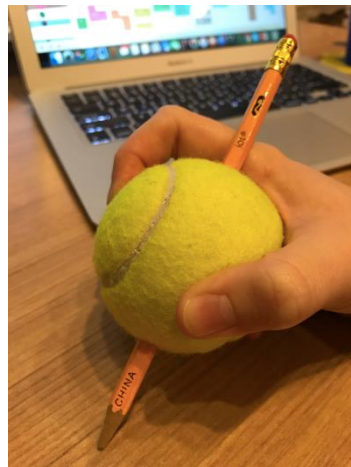
AT Solutions for Reading

Low Tech AT Solutions



Low Tech AT Solutions for Writing

- Built-in pen and pencil grips
 - Variety
 - Can build you own with a tennis ball or ping-pong ball
- Wide barrel pens and pencils
 - Makes it easier for some people to write due to their contoured shape.
 - There is more surface area to grip which makes it easier to write.



Livescribe

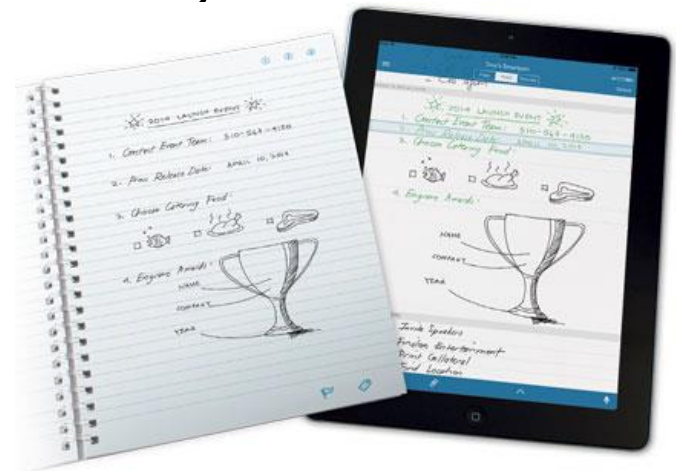
Livescribe is the global leader in the design and manufacturing of smartpens, enabling customers to capture, search and share handwritten notes on the digital devices they use every day.

- Echo
 - Record and playback
 - Save, search, and organize
 - Send and share
- Livescribe 3
 - Uses Bluetooth Smart to send everything you write to your smartphone or tablet
 - Saves written notes in memory



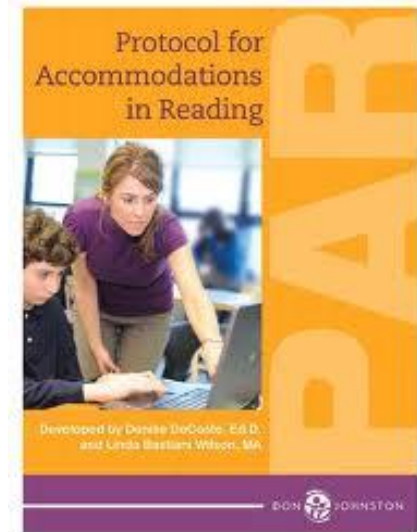
Livescribe Tools Cont.

- Livescribe+ Mobile App
 - Stores and organizes everything you write on paper
 - Uses leading handwriting conversion technology to make it simple to search your notes for what you need
 - Available for iOS, Android, and Amazon devices
- Livescribe Dot Paper
 - Feature an innovative dot pattern that tells the smartpen precisely what you've written or



PAR: Protocol for Accommodations for Reading

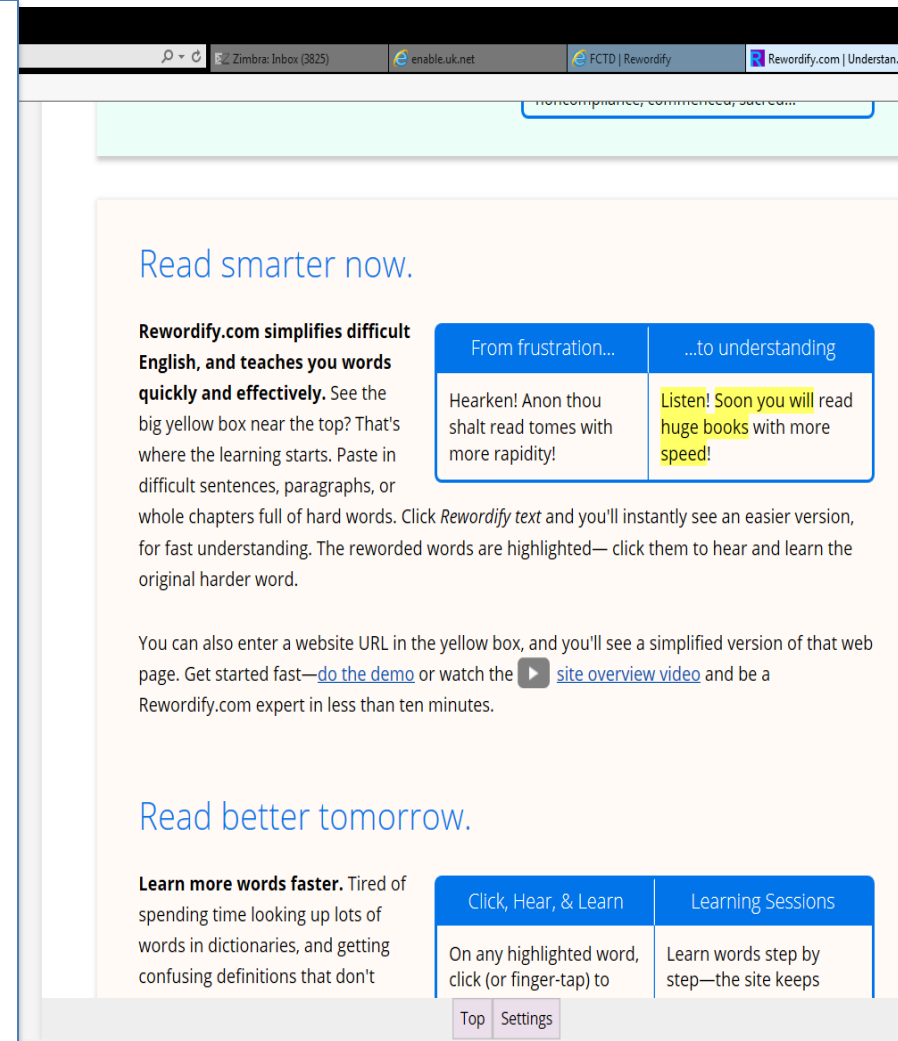
- Don Johnston
- Assist with accommodations for reading
- 3 Steps
 - 1) Student's Oral Reading
 - 2) Adult Reader
 - 3) Text Reader
- How did the student like?
- Help with adding in AT for reading solutions



Rewordify.com

“Rewordify is a free website that makes English easier to read. In some ways it is similar to a thesaurus, but allows users to enter not just single words, but entire sentences, pages, and even websites, for clarification. Passages are preferred, as difficult words are 'rewordified' using the context of the sentence. For example, paste in "The tempest raged outside while the throng huddled inside.", and it is 'rewordified' into, "the storm raged outside while the crowd huddled inside.”

Students can use this tool to make passages more understandable. Simplified words are highlighted for quick comparison with the original word(s).”



The screenshot shows the Rewordify.com website. At the top, there's a navigation bar with links like "Zimbra: Inbox (3825)", "enable.uk.net", "FCTD | Rewordify", and "Rewordify.com | Understand...". Below this is a search bar. The main content area has a heading "Read smarter now." followed by a paragraph explaining the tool's purpose: "Rewordify.com simplifies difficult English, and teaches you words quickly and effectively. See the big yellow box near the top? That's where the learning starts. Paste in where the learning starts. Paste in difficult sentences, paragraphs, or whole chapters full of hard words. Click *Rewordify text* and you'll instantly see an easier version, for fast understanding. The reworded words are highlighted— click them to hear and learn the original harder word." Below this is a yellow box for pasting text and a blue box for "do the demo" or "site overview video". A table compares "From frustration..." to "...to understanding" with examples of reworded text. Another paragraph explains that users can enter a website URL to see a simplified version. A second heading "Read better tomorrow." is followed by a paragraph about learning more words faster. A table compares "Click, Hear, & Learn" with "Learning Sessions". At the bottom, there are "Top" and "Settings" buttons.

Read smarter now.

Rewordify.com simplifies difficult English, and teaches you words quickly and effectively. See the big yellow box near the top? That's where the learning starts. Paste in where the learning starts. Paste in difficult sentences, paragraphs, or whole chapters full of hard words. Click *Rewordify text* and you'll instantly see an easier version, for fast understanding. The reworded words are highlighted— click them to hear and learn the original harder word.

You can also enter a website URL in the yellow box, and you'll see a simplified version of that web page. Get started fast—[do the demo](#) or watch the [site overview video](#) and be a Rewordify.com expert in less than ten minutes.

Read better tomorrow.

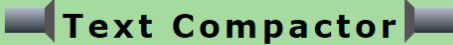
Learn more words faster. Tired of spending time looking up lots of words in dictionaries, and getting confusing definitions that don't

Click, Hear, & Learn	Learning Sessions
On any highlighted word, click (or finger-tap) to	Learn words step by step—the site keeps

Top Settings

Textcompactor.com

- Free Online Automatic Text Summarization Tool
- Set the percentage of text to keep in the summary
- Cut and Paste into text to speech word program

 [Home](#)
Free Online Automatic Text Summarization Tool [About](#)

Follow these simple steps to create a summary of your text.

Step 1
Type or paste your text into the box.

data, deciding, is this side Jadon? Is this side Anias? What's happening with this particular set of vessels?"
3-D printing is not new in the medical field. For years, it has been used for a variety of items such as splints, implants or models for other operations, like heart surgery.
New life, apart: Conjoined twins separated in marathon surgery
Conjoined twins separated, both out of surgery
3D Systems has collaborated on dozens of conjoined twins' cases over the past decade, but the McDonald boys presented a complex new challenge.
Craniopagus twins are extremely rare, occurring in only one of out of every 2.5 million births. About 40% of these twins are stillborn, and another third die within 24 hours of birth.
There are not many surgeons who have operated on craniopagus twins, but Dr. James Goodrich, at Children's Hospital at Montefiore, is a world expert on them.
For his team, the surgery started with a virtual planning session courtesy of 3D Systems.

Step 2
Drag the slider, or enter a number in the box, to [set the percentage of text to keep in the summary](#).

42 %

Step 3
Read your summarized text. If you would like a different summary, repeat Step 2. When you are happy with the summary, copy and paste the text into a word processor, or [text to speech program](#), or [language translation tool](#)

On October 13, a surgical team stood over two 13-month old boys who were joined at the head and shared up to 2 inches of brain tissue.
Jadon and Anias McDonald were born as craniopagus twins, an incredibly rare condition affecting just one in millions, and October 13 was the day their family had been waiting for. For years, it has been used for a variety of items such as splints, implants or models for other operations, like heart surgery.
New life, apart: Conjoined twins separated in marathon surgery
Conjoined twins separated, both out of surgery
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Bookshare

- Online Accessible Library
- Free membership to qualified students and schools
 - Textbooks if school is member
- 389,675 titles
- Serves individuals with:
 - Vision disabilities
 - Physical disabilities
 - Learning disabilities



Audible.com

- Digital audiobooks
- Read by Hollywood stars, authors, and professional narrators
- Listen anywhere
- Over 180,000 titles
- Membership
 - \$14.95/ month for one book



Reading & Writing Software Solutions

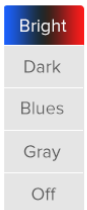
BeeLine Reader

- Chrome Extension
- Read by using a color gradient that guides your eyes from the end of one line to the beginning of the next
- Read websites, books, email, and PDFs
- App form too
- 30 days free trial
 - \$10/year

HOW IT WORKS

Ever wonder why stop lights use colors and not words? It's because the human brain processes color very quickly—much more quickly than it can process words. BeeLine Reader uses the same principle to make reading easier and faster. With BeeLine Reader, the color of the text guides your eye across and between lines, eliminating "line transition errors" (accidentally skipping or repeating lines) and making reading faster, easier and more efficient.

BeeLine Reader is helpful for readers of all levels—from young readers to graduate students and beyond. Readers with dyslexia, ADD, and vision difficulties reap some of the largest benefits from BeeLine Reader, with speed increases that can top 50%. How much will BeeLine Reader help you? Try the BeeLine Reading Challenge and find out!



ClaroRead

- Reads text as it highlights
- Moveable tool bar
- Can read doc, PDFs, internet, and more
- 7.0
 - Add audio notes
 - Save as mp3 file
 - Save as video
- Can change highlighting colors
- www.claroread.com



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



Writing Software Solutions

Live Scribe Pen

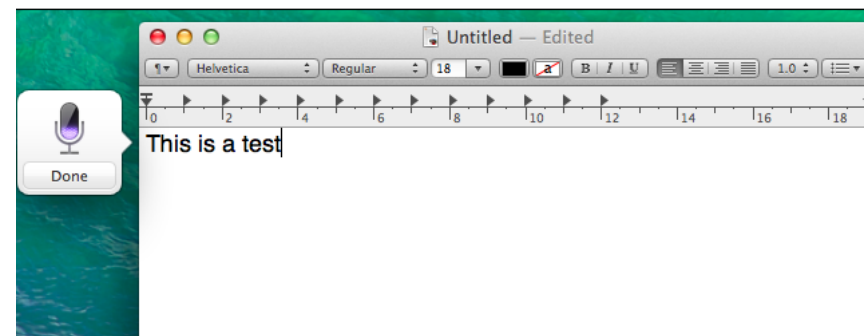
- Records what it hears and what you write
- Uses specific paper for playback
- Connects to computer by USB for saving
- Tap on note and playback from there
- Jump forward and back in notes
- Dictionary
- Translation Apps
- Purchase Apps online
- [Demo](#)



Voice Input Solutions

Built In Dictation

- Voice Dictation in Mac
- Speech recognition in PC
- Free
- Good microphone
- PC some training
- Mac no training



Speech Recognition Software

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



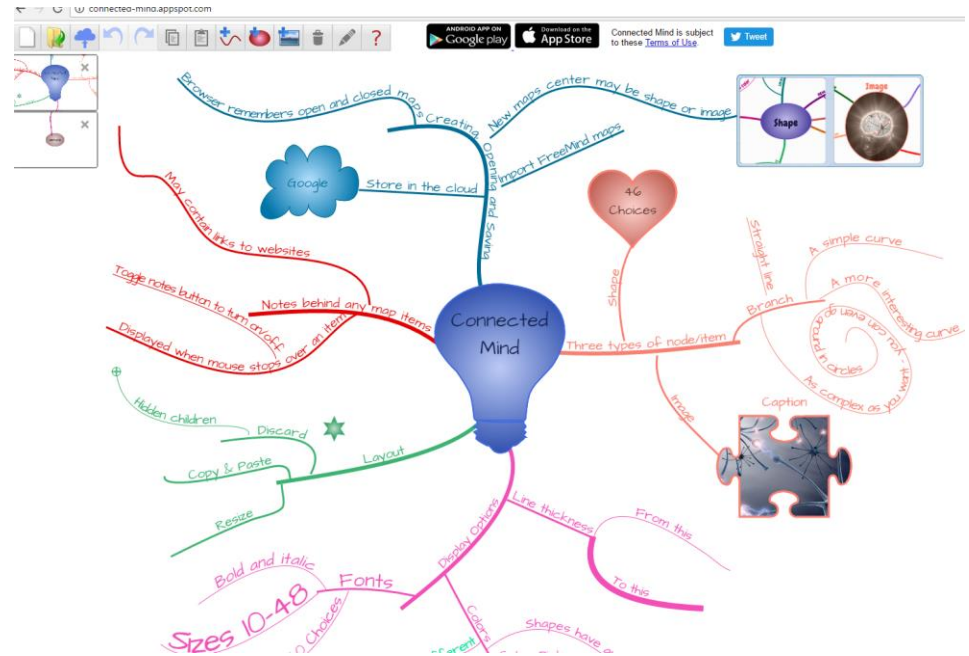
Ginger

- 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 a mobile Android, iOS and Windows
- Works inside Word and emails
- Text to Speech
 - Read emails and docs
 - Can choose voice and accent
- [Ginger Demo](#)



Connected Mind

- Chrome App
- Mind mapping
- Sync across devices
- Free cloud storage
- Different shapes and colors
- Import pictures
- Draw
- Speech Recognition



Inspiration

- Mind Mapping software
- Allows User to “connect” ideas together
- Add in pictures and hyperlinks
- Can produce an outline form
- Better organization of essays
- \$27.96
- App \$9.99



What's New In AT and the AT Community:

- **Perhaps, Where We Are Going**

Future

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



• *Martha Rust*

Amazon Echo/ Dot

amazon echo

Always ready, connected, and fast. Just ask.



- Speech-controlled speaker system
- Voice recognition - further distances
- All functions are server-side
- Compatible with many EC brands
- IFTTT App



See Us Tomorrow!

The Impact of Emerging Technology Trends of Individuals With Learning Disabilities

11:30AM-12:30PM

Harborside A



Success with Assistive Technology and Advocacy begins with the Individual

- Get to Know Yourself
- Build your self-advocacy and Advocacy Skills
- Plan for Your Success – in school, work, Life!
- Explore & USE Assistive Technology that can Help You
- Begin with the End in Mind
- Be able to tell Your Story
- Listen & Learn
- Try – Fail & Try again...
- Evaluate and Evolve
- Laugh Much!
- Celebrate your Successes! Success Breeds Success.
- AND Visit Us at the LDA & AMAC AT Solutions Lab

Additional Resources

Family Center on Technology and Disability
<http://www.fctd.info>

WrightsLaw
<http://www.wrightslaw.com>

National Disability Rights Network
<http://www.napas.org/>

A Guide to Disability Rights Law – U.S. Department of Justice
<http://www.usdoj.gov/crt/ada/cguide.htm>

American Association of People with Disabilities
<http://www.aapd-dc.org/>

Consortium for Citizens with Disabilities
<http://www.c-c-d.org/>



Many states have their own Disability Law or Protection and Advocacy Organizations. Links to these sites can be found on the Family Center on Technology and Disability's Website under Member Organizations.



**My Question to You:
What have You Learned today?**



Washington Assistive Technology Act Program

- University of Washington
- (800) 214-8731 Toll-Free Hotline
- (206) 616-1396 TTY
- (206) 543-4779 Fax
- <http://watap.org/>
- [Email: watap@uw.edu](mailto:watap@uw.edu)



Technology for Independence



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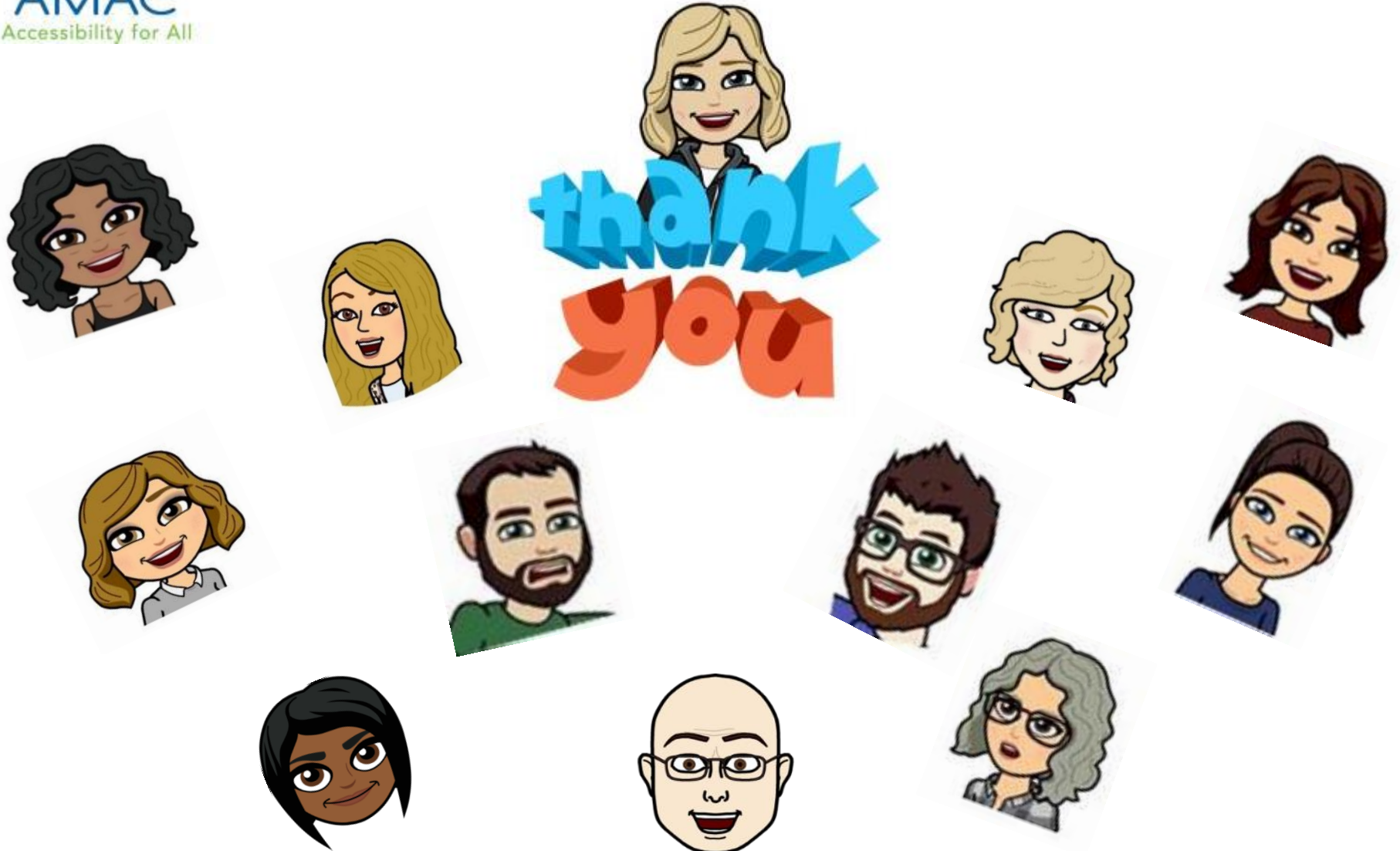
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Disclaimer

Disclaimer: Produced by Tools for Life (TFL), which is a result of the Assistive Technology Act of 1998, as amended in 2004. TFL is a program of the Georgia Institute of Technology, College of Design, AMAC Accessibility Solutions and Research Center and was made possible by Grant Number H224C030009 from the Administration for Community Living. Its contents are solely the responsibility of the authors and do not necessarily represent the official views of HHS.