

The Impact of Emerging Technology Trends on Individuals with Learning Disabilities

LDA 2017

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TFL Team

www.gatfl.gatech.edu

Tools for Life Website











IDEAS CONFERENCE



TFL AppFinder Categories





Search by:

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



Making Informed Decisions







Get to Know Your AT Act Program



Search

search on at3..

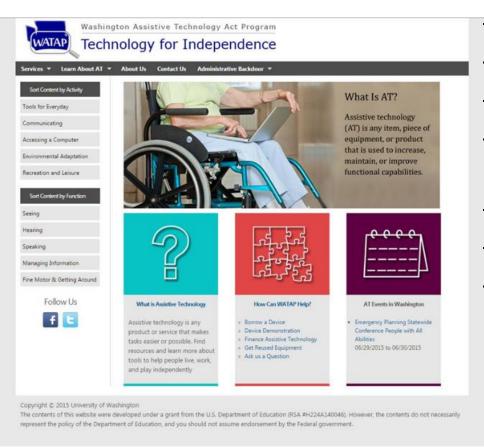


HOME ABOUT AT3 AT ACT GRANTEES EXPLORE AT E	VENTS CONTACT US	
Program Directory - Find Your State Program	_	
,		nd Your State
Select a State to View Contact Information:	Le	arn about the AT Act
Georgia ▼	Ce	nter for AT Act Data
Tools for Life, Georgia's Assistive Technology Act Program Georgia Institute of Technology College of Architecture AMAC Accessibility Solutions and Research Center		
512 Means Street, Sulte 250 Atlanta, GA 30318		
Program Coordinator: Carolyn Phillips		
Phone: (404) 894-0541 TTY: Fax: (404) 894-8323		
Email: info@gatfl.org Website: http://www.qatfl.gatech.edu		

https://www.at3center.net/stateprogram

Find Us Online – watap.org





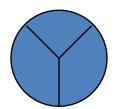
- Borrow a device
- Request a demo
- Find reused equipment
- Get a low interest AT loan
- Request an evaluation
- Find AT resources
- Learn about AT





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
- <u>Context</u>: 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

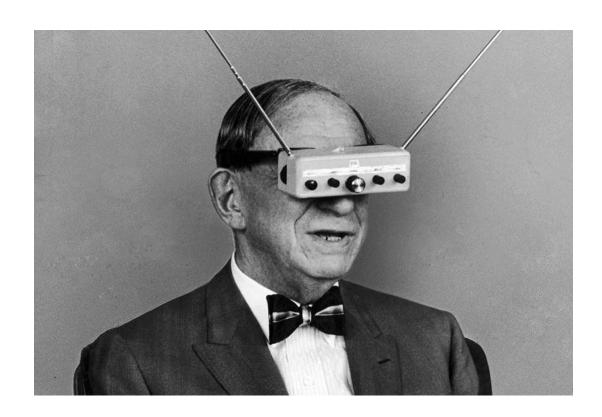
T = Tasks

T = Tools





Emerging Technologies





Office 365 and OneNote

https://www.onenote.com/learningtools

Microsoft Surface Pro and Surface Book



- Windows 10
 - New and improved Internet Explorer
 - On-screen writing and highlighting features
 - Moveable tiles
 - Start Menu can be personally organized
 - Built-in accessibility
 - Speech-to-text
 - Narrator
 - Magnifier
 - High contrast
- Slim and has a USB port
- This pressure sensitive cover that doubles as a keyboard





Schools



- Cherokee County in Georgia
- Using One on One Computing
- OneNote Classroom
- Staying organized
 - Notebook/folder for each class
 - Links to documents, PowerPoints, videos
 - Each Student has own private folder that the teacher checks
 - Collaboration
- OneNote Learning tools





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





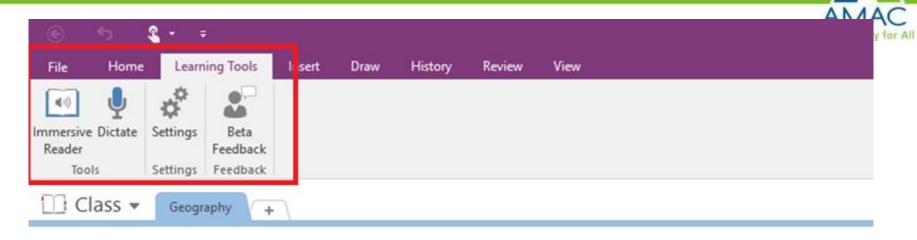
OneNote Learning Tools



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.



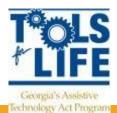
Office Lens





- Free App
- Convert images to PDF, Word and PowerPoint files
- Save images to OneNote or OneDrive
 - Use immersive reader

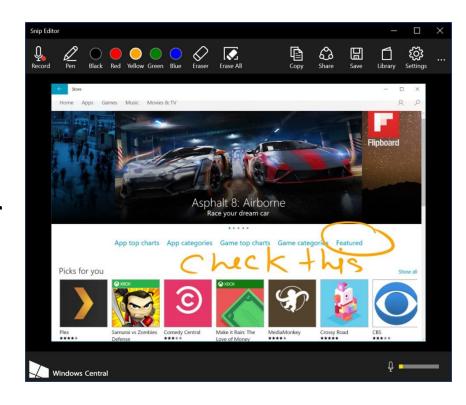




Snip



- Free app through Microsoft Store for web browser
- Click and drag to capture any window or area of your screen
- Also can make notes or draw on your "snip"
- Send your "snip" as a URL or save it



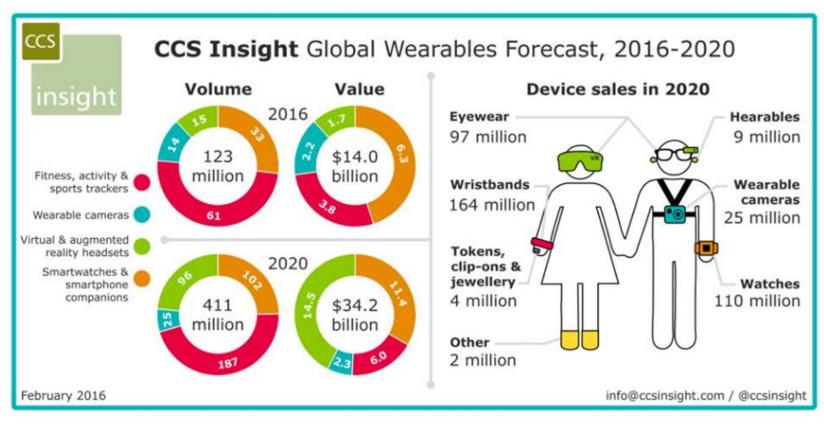




Wearables

CCS Wearables Forecast







Octopus Watch



- Indiegogo funded July 2016
- Icon based watch designed to teach kids (3+) concept of time
- \$69



WATCH

It's a watch. It gives the time with icons, making it the first clock that young kids can actually read and understand. It links time to events.



SCHEDULER

It's a scheduler for children that fosters responsibility, independence and selfesteem. Parents can program reminders from their smartphone that pop up on the kid's watch.



ASSISTANT

It's an assistant that helps parents prioritize expectations and stay consistent with daily routines. It gives tips and personal notes.









GlassOuse



- Helps people control electronics without using their hands.
- Based on your head movements, it moves the cursor onscreen. You bite on a blue extension to click, and it can go a week without charging."
- https://vimeo.com/158593763





QuietOn

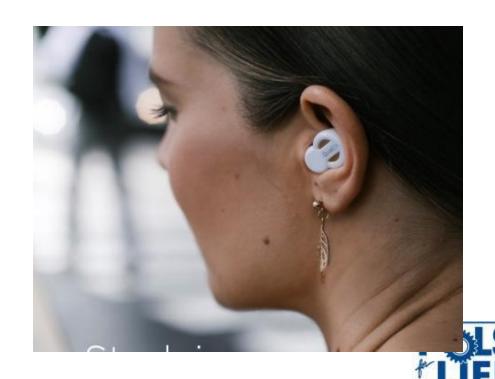


Indiegogo fully funded March 2016

Wireless noise reduction; reduces noise to

create silence

• \$160





Mental Health

Breathe on Apple Watch



- The Breathe app guides you through a series of deep breaths, and it will remind you to take time to breathe every day.
- Choose how long you want to breathe, then let the animation and gentle taps help you focus.

Start



Reveal



 Measures and tracks anxiety to help you better understand behavior and prevent

meltdowns.







Vidget chair



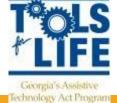
 Do you need stop wiggling or fidgeting in your chair and sit still?
 With the this, you don't have to!
 Plus, it's actually better for you.

 Being able to fidget in a classroom improves focus, inspires creativity, and promotes calmness.

 It creates a healthier learning environment by providing a safe and quiet way to release some of the endless energy kids have.

 Inspires kids to move naturally and celebrates imaginative play while learning!





Fidget Cube



- Kickstarter campaign
- Available February 2017
- Created by Antsy Lab
- \$22





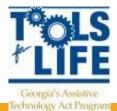
Pacifica





Pacifica App is available on iOS, Android & Web Learn new techniques for reducing stress and anxiety Customize to individual preferences







Cognitive

Amazon Echo



- Set reminders, timers, alarms
- Assist with Spelling, Math, vocabulary, language/translations
- Play trivia games for learning
- Reduce anxieties with music





Sonocent Recorder



- Capture high-quality recordings and annotate in real-time using colour markers, photos and text notes. With the Sonocent Recorder app you can take an accurate record of a meeting, lecture or class without having to write anything down.
- Instead of the single stream of information you get with standard audio, Sonocent Recorder splits your recording up into phrases which you can highlight, edit and delete as you record:
- It's FREE!!!





Equil Smartpen 2



- Indiegogo Funded
- Real ink; real paper; digitized
- \$119; shipping in early February 2017







Iris IRIScan Mouse Wifi Cordless Mouse Scanner





- A scanner at your fingertips!
- Just click on the scan button, swipe in any direction on a paper document and watch texts and images appear instantaneously on your computer screen thanks to the direct Wi-Fi transmission. Never retype any text again!
- Embedded OCR technology will turn any type of document, books, magazines, pictures into editable text. Simply drag and drop it into your favorite text editing application, edit and upload to the cloud in a click.



N2 Neo Smartpen



Kickstarter funded

 NeoLab created smartpen that writes on paper and mirrors information on smart devices (iOs and

Android)

Cost ?



Digit widget



 A tactile & exploratory way to learn about numbers, addition, and so much more! Through imaginative play, a child begins building the foundation for future STEM skills and has a lot of fun in the process.



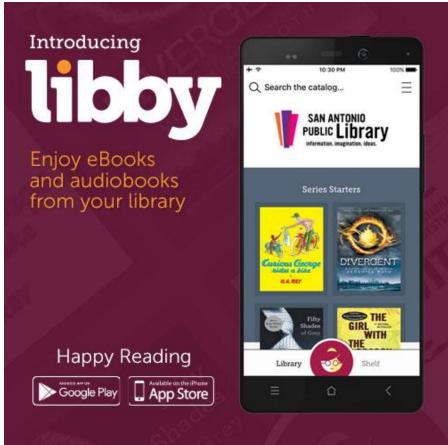


Libby



Technology Act Progra

- A new app to discover and enjoy thousands of ebooks and audiobooks from your public library.
- Designed to get people reading as quickly and seamlessly as possible.
- Just one tap away from unlocking the power of the written word from the public library.
- All you need is a library card to get started.
- It's FREE!!!



Calculators

AMAC Accessibility for All

- New talking calculator app on iPhone and iPad.
- A comprehensively featured calculator that has become a favorite among adults and primary schools around the world.
- Wide range of uses- has large colorful buttons, optional high contrast, full VoiceOver support, and unique to this calculator; the option to use speech for answers, button names and formulas!
- Creator Adam Croser has created many different talking calculator apps.



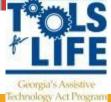


AVA



- Uses microphone to hear and shows word by word what is said
- Instant captions
- Basic Plan Free For 5 hr/month
- \$29.99

Ava shows you who says what. Never miss a conversation again. ●●●●○ VIRGIN 令 4:21 PM ok good i wanted to tell you I was at the store and we were getting you know these yes these carrots I love these things you know that's when I remembered your email so what was so important anyway I couldn't wait see Hannah is coming next week what what that's awesome





3D Printers and VR

Tiko 3D Printer

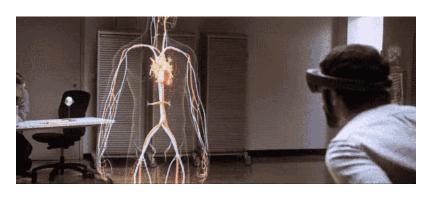


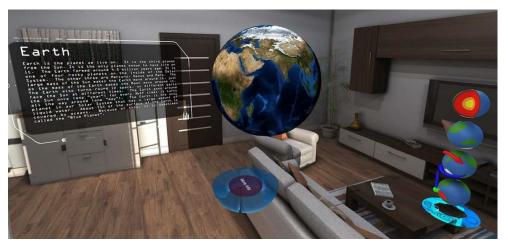
- Kickstarter Funded
- Accepting pre-orders shipping in Spring
- Non-proprietary filament
- Wifi Connectivity
- \$199



Virtual and Augmented Reality

- HoloLens
- A new collaboration between Pearson and Microsoft is using a self-contained holographic computer to develop "mixed reality" learning experiences for students.





http://www.eschoolnews.com/2017/01/23/institutions-mixed-reality/

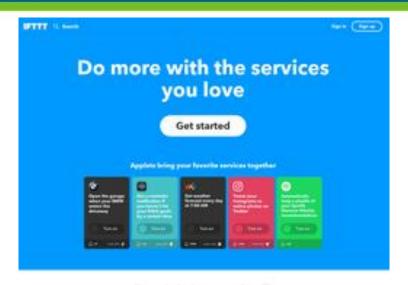




Apps

IFTT







- Free web-based service that allows users to create chains of simple conditional statements, called "applets",
- These are triggered based on changes to other web services such as Gmail, Facebook, Inst agram, and Pinterest...
- IFTTT is an abbreviation of "If This Then That".



NoteTalker





- Voice Recorder App
- Allows for Audio Bookmarks
- Attach picture within audio
- Edit notes (separate from app)
 - Add, share, edit, attach
 PowerPoint
- Graphic Equalizer
- \$6.99 for app
- \$105.43 for Editor



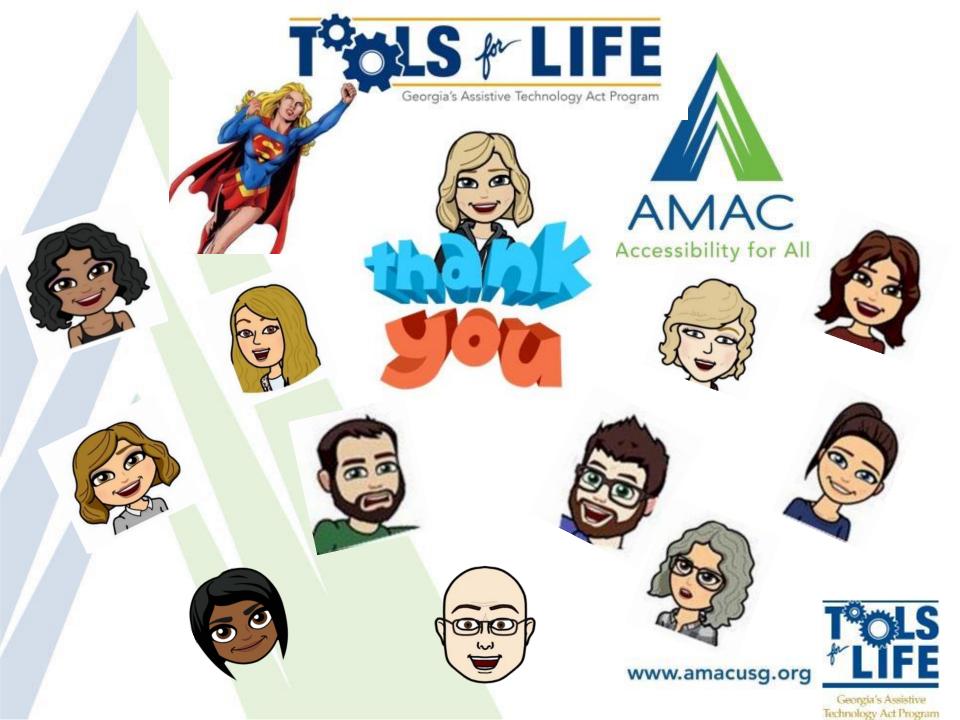


Questions?









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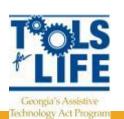
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Washington Assistive Technology Act Program

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- (206) 616-1396 TTY
- (206) 543-4779 Fax
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- Email: watap@uw.edu





Disclaimer



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