

Learn More and Do More: Exploring Accessibility and Apps

Martha Rust

With contributions from Carolyn Phillips, Ben Jacobs and Liz Persaud

www.gattl.org

Come Visit Us







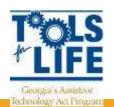


Tools for Life and the TFL Network work collaboratively together to

accomplish our mission through:



gTRADE





Tools for Life AppFinder

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

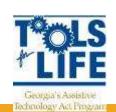




Making Informed Decisions



Begin with the End in Mind!



Technology Assessment



SETT

- S for the Student/Human
- **E** for the Environment
- T for the Tasks
- T for the Tools needed for the student to address the tasks. Reading
- Also consider HATT Cook & Hussey

STUDENT		TASK	TOOLS/TECHNIQUES	EXPL
1,	Student is unable to hold reading materials open	Read text books, worksheets	Book holder (EZ Book Clip*) Page holder (Page Up*)	
2.	Student has difficulty seeing text (visual, letters reversed, too small, etc.)	Read textbooks, worksheets, chalkboard, computer	Preferential seating. Enlarge print on copy machine or computer Reduce number of items on page (spacing) Maganty text (Magnifyling bar') Highlight text (Highlighter Tape') Reading guide (Reading Helper') Highlight text area (Heads up Frame Set') Highlight full page of text (Colored Transparencies')	
3.	Student has difficulty reading on a flat (horizontal) surface	Read silently, read in groups, seat work	Slanted surface (3 ring loose leaf binder, slant board) Page Holder to see paper vertically (Page Up*)	
4.	Student loses place while reading(tracking)	Read text books, chalkboard, worksheets (all reading assignments)	Preferential seating Isolate text (with plain paper) Isolate text (Ruler or Reading guide*) Magnify text (Magnifying bar*) Reading guide (Reading Helper Set*)	

1. Choose student description, environment and task (or fill in your own)



Comparing Tablets

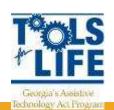


Property	Android	iOS	MS Windows	Amazon Kindle	Barnes and Noble Nook
Number and variety of Tablets	Over 11,000	iPad and iPad mini	Several	Kindle Fire and Fire HD	Nook HD
Operating System	Android (Jelly bean)	ios7 (Sept 18, 2013)	Microsoft Windows 8	Modified version of Android ICS	Modified version of Android- Microsoft bought 2013
Apps	860,815 (AppBrain.com updated 9/13/13)	900,000 with 375,00 optimized for iPad/mini (mobileburn.com updated June 2013)	104,917 (winbeta.org updated July 4, 2013)	50,000 in Amazon App store also shop in Google Play Store (theverge.com updated August 2013)	10,000 in Barnes and Noble and have access to Google Play store (barnesandnoble.co m updated August 2013)
Software Updates	As it becomes available on Google	Apple releases updates	MS releases updates	Amazon releases updates	Barnes and Noble releases updates
Interface	As designed by manufacturer	Icons and widgets designed by Apple	Metro style designed by Microsoft	Modified version of regular Android	Modified version of regular Android

You Don't Have to Pick One





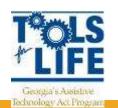


Be Informed of Your Options





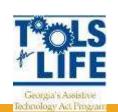
Buddies!



Critical Conversations & Questions



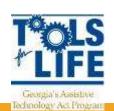
- Who?
- What?
- Where?
- How?
- For students: What do You want to "be" when you grow up?
- To support these goals, what Assistive Technology solutions and strategies have you considered?
 Tried? Implemented?



Critical Conversations



- What is Your Strategy to stay current with trends?
- How do You access AT for the Consideration Process?
- Are You positioned for Learning? Working? Living? Playing?
- Are you building Independence or dependence?

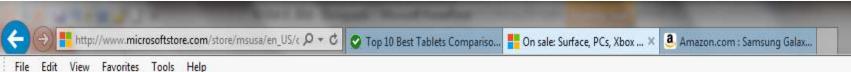




Let's begin by Diving beneath Surface...

Microsoft Surface





Great prices on tablets Shop all tablet deals



Save up to \$70.00

Surface



- . The original tablet at a great price
- · Built-in kickstand
- Office Home & Student 2013 RT
- . Up to 8 hours battery life



Save \$300.00

Surface Pro



- . The laptop in tablet form
- · Built-in kickstand
- Surface Pen included
- · Huge savings while supplies last



Save \$80.00

Toshiba Encore WT8-A32M Touchscreen Tablet



- · 8-inch HD touchscreen
- Intel Atom Z3740
- 2GB memory/32GB eMMC
- · Up to 7 hours battery life



Save \$50.00

Lenovo ThinkPad 8 Touchscreen



- 8.3-inch Full HD display
- Intel Atom Z3770
- · 2GB memory/64GB eMMC
- · Up to 8 hours battery life

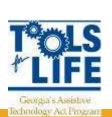
Surface Pro 3



- June 2014
- 12 inch screen
- Up to 9 hours of web browsing
- Windows 8.1
- Surface pen
- Multi positioning kickstand

- Palm Block Technology
- Install Software
- Starting at \$799



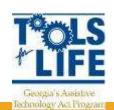


Surface RT and Pro



- 2 types
 - -RT
 - PRO
- RT
 - Cannot download software
 - Does not support digital pen
 - Built in MS Office
 - Word, PowerPoint, Excel

- Pro
 - 30 day trial of MS Office
 - Ability to download software
- Open 3 Windows
- Tiles
 - Start screen
- Charms
 - Right hand side







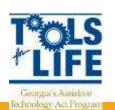
Exploring the Surface
Accessibility & Devices

Accessibility of Surface





- Magnetic Attachments
 - Charger and keyboards
- Uses Windows 8
 - Ease of Access
- Narrator
- Magnifier
- On-Screen Keyboard
- Windows Speech Recognition
- Picture Password



Surface Tiles



- Used to launch all apps
- 2 size
 - Small and large
- Live tiles
 - Quick short bit of information
 - Can be turned off/on
- Pin on Start screen

- Move Tiles to different sections
- Name the group of tiles



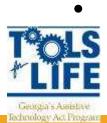


Charms



- Provide easy access to setting and tools
- Search Charm
 - Quickly fid items
 anywhere on the tablet
- Share Charm
 - Instant access to ways by which can share current content
- Devices Charm
- Settings Charm

- Devices Charm
 - Ways to connect tablet to other devices
- Settings Charm
 - Quickly access
 commonly used settings
- Show Charms
 - Swipe inward from right
- Hide Charms
 - Repeat above gesture
 - Swipe towards right
 - Tap the screen

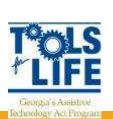


Snapping



- Having 2 or 3 apps open on the screen at the same time
- With an open app, drag a finger from the top of a screen; app will pull away and a dividing bar will appear
- Drag to the left side to
 bring up a previous app









Our Favorite Surface Apps

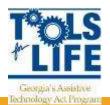
Surface Apps: OneNote







- Save all your notes in the cloud
 - All devices
- Share for viewing and editing
- Save any web page to OneNote and view it later, online or offline
- Send emails to <u>me@onenote.com</u>
 - Put into your notebook.
- Take photos of documents and whiteboards

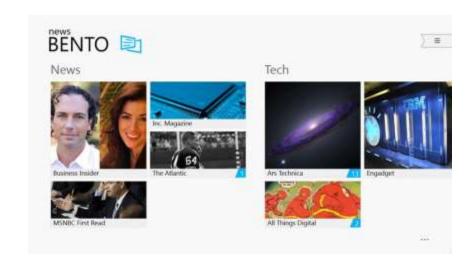


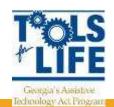
Surface Apps: News Bento





- Aggregate all the news you care about in one spot
- Personalize home screen
- All the news in one spot
- Free



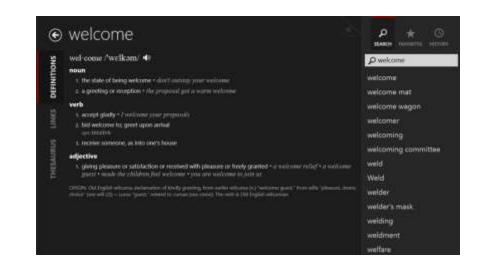


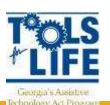
Surface Apps: WordBook





- Dictionary App
- 120,000 pronunciation guides
- 150,000 real human voice audios
- Built-in thesaurus and word links
- Browser-like content navigation with ability to tap on any word to view its definition

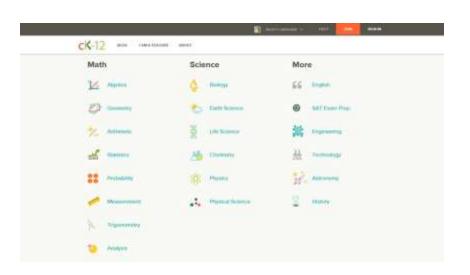




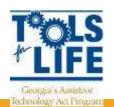
Surface App: CK-12







- Free
- 5,000 Math and Science concepts
- Common Core aligned digital content
- Learn at own pace
- Multiple learning styles
 - Video, reading,
 interactive objects



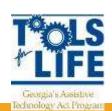


Surface Resources

Surface/ Windows 8 Resources



- http://www.microsoft.com/enable/products/windows8/
- http://www.microsoft.com/enable/training/windows8/
- http://windows.microsoft.com/en-us/windows-8/make-pceasier-use
- http://www.microsoft.com/surface/enus/support/personalization-and-ease-of-access/ease-ofaccess-features

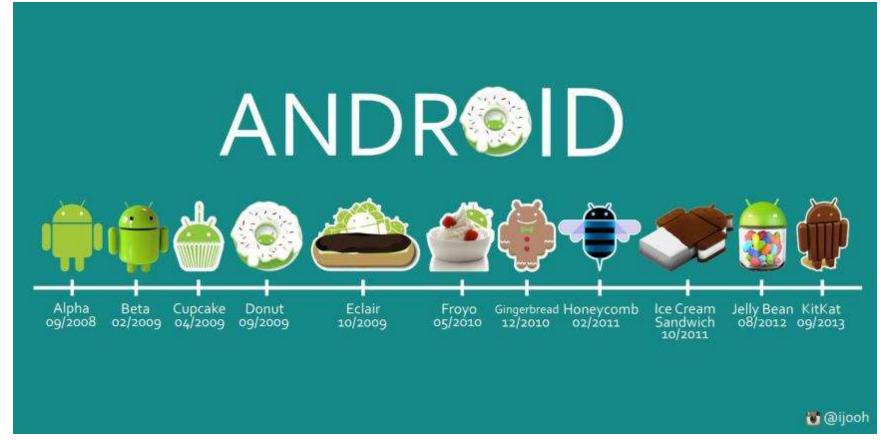


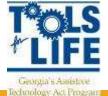


A Closer Look at Android

Version History



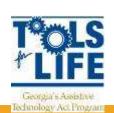




Facts about Android



- The Android operating system was first developed by Google in 2008 in response to Apple's iOS, which dominated the smartphone market at the time.
- Since 2008, the Android OS has proven itself a worthy competitor and officially took over as the market leader in the fourth quarter of 2010.
- The number of new Android devices being activated each month continues to climb at a staggering rate.



The World's Most Popular Mobile OS



 Android powers more than a billion phones and tablets around the world.

 It's customizable, yet easy to use, and since it's made by Google, it works seamlessly with all your favorite Google apps.



Smartphone Users Pick Android



47% of People Use Android Smartphones 30% of People Use iPhones 23% Use Other Smartphones

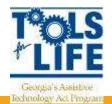


Samsung Galaxy Tab 3





- 7 inch screen
- Open one screen at a time
- Camera for photos and videos
- Ability to organize apps
- Similar to the Galaxy smartphone
- Starts at \$179



Samsung Galaxy Note 8.4





- Built in accessibility features
- Multi Windows
 - 2 Screens
- Customize dashboards
- 8.4 inch display
- 10 hrs Internet time
- e- Meeting
 - Share screen
- Starting at \$349



Samsung Galaxy S4



Air Gesture

- sensor at the top of the device, allows you to answer calls just by waving your hand
- browse through photo
 albums and web browser tabs
 by using left and right hand
 gestures

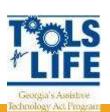
Air View

 preview photos in an album, for example, by hovering any one of your fingers a few centimeters above the screen

Smart Stay and Smart Scroll

- Uses your eyes
- Pauses when you look away or continues to scroll following your eyes





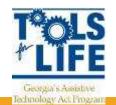
Google Nexus Tablet







- 7 inch screen
- Up to 9 hours of HD video playback
- 10 hours of web browsing
- Made to Share
 - Customize space and personal homepage
- Starts at \$229



Kindle Fire HD/HDX Features



- Download Books and Movies
- Access to Amazon
- Front Facing Camera
 - Skype
- Can Read Books out loud
 - If book has this feature enabled
 - Check on product details page
- TOLS

 LIFE

 Georgia's Assistive
 - Whispersync for Voice Immersion Reading

- Mayday Button
- Can Change:
 - Font
 - Line Spacing
 - Text Size
 - Background color





Exploring
Android
Accessibility &
Devices

Easy Mode



- In Settings under Home Screen Mode
- Has three home screens
- The main home screen has non removable widgets for the time, date, and weather.
 You will also find six apps to choose from that have much larger icons
- The left home screen is dedicated to calling
 - Can select up to nine contacts

- The right home screen includes 9 apps that you can customize to whatever you want
- Still have an app drawer
 - All apps are spelled out and in alphabetical order.
- The settings menu and camera interface is also simplified



Android Tablets Accessibility

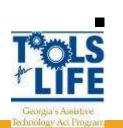


- Accessibility features are not all built in
 - Talkback, Kickback, and Soundback
 - Gesture Feature in Jellybean
 - Eyes free keyboard
 - IDEAL Web Reader for internet
- What operation system is tablet running
 - KitKat, Jellybean, Ice cream sandwich, Honeycomb, Gingerbread
- Google Play Store to buy apps
 - Must have Gmail address
 - Can use Amazon gift cards

Customize features

Pick from several kinds of keyboards







android Access: Accessible Android apps and news for the Blind and Visually Impaired

Welcome to Android Access, your portal to information on accessible Android apps and programs for the blind and visually impaired. We're excited to be a part of the Android community, and look forwar to your comments, feedback, and submissions. If you're new to Android, check out our Getting Started page. Keep up to date with the latest reviews and news by following @AndroidAccess on Twitter.

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- Business (2)
- Casual (3)
- Communication (34)
- Education (1)
- Entertainment (18)
- Finance (1)
- Health & Fitness (7)
- Libraries & Demo (5)
- Lifestyle (8)
- Media & Video (16)
- · Music & Audio (22)
- News & Magazines (6)
- Photography (1)
- Productivity (30)
- Racing (1)
- Shopping (2)
- Social (13)
- Sports (4)
- Sports Games (2)
- Tools (42)
- Transportation (3)
- Travel & Local (9)

Gmail Calendar Documents Photos Reader Web more -Google groups « Groups Home eyes-free **Discussions** View: Topic list, Topic summary You cannot post messages because only members can post, and you are not currently a member. Description: Announcements and discussions about the Eyes-Free project whose focus is development of applications that provide eyes-free access to the Android platform. 😭 Samsung Gravity smart t-mobile I saw a tweet about this phone earlier. It's been announced but not yet released. The estimated release date is 06/08/2011. This phone has a slide out keyboard and is supposed to be available for under \$100 with a contract. I didn't see if it was 4g, but it might be a phone of interest to some of you.... more > By Gordon - 3:19am - 1 new of 1 message - Report as spam 😭 The vOlCe and Color Identification

I'm using the vOICe to identify colors. Generally speaking, it does a good job though it's better at giving me color approximations than precise colors, for example, it says that my agua bedspread, sky blue throw pillow and green blanky are all cyan, and it says a canary yellow box is green or yellow green. I remember colors and the exercise of combining red, yellow, and blue in kindergarten well enough to understand that blue, aqua, and green are all on a continuum and that certain yellows (maybe not canary) can kind of sort of look green in certain lighting, so what the vOICe does makes sense to me.... more »

By Ana G - Jun 2 - 2 new of 2 messages - Report as spam

😭 Seesmic I have installed seesmic and added my twitter account. Idon't see a way to add any more accounts. I wanted to add my facebook

account. Is anyone else usingseesmic? How do you aadd more accounts? Thanks for any help.

By Terra Syslo - Jun 2 - 1 new of 1 message - Report as spam

☆ List of accessible apps? Is there a list of apps that are known to be accessible or are themselves accessibility apps? I'm trying to put together a list of things I'll need to download when the time comes. Chris By Christopher Bartlett - Jun 2 - 3 new of 3 messages - Report as spam

😭 Calculator

Home

Search this group

Discussions

+ new post

marcha2@gmail.com

Search Gr

About this group

Join this group

View this group in new Google Group

Sponsored links

Laptop Batteries

Buy High Capacity Laptop

Batteries, From \$35.99. Same Day Shi

www.LaptopZ.com Nexus S by Google

Powered by Gingerbread, It's

Leanest, Meanest Android F Yet.

www.google.com/nexus

Samsung Series 9 Noteboo

13" Notebooks W/ Intel

Technology.

Visit Official Site For Specs! samsung.com/series9

See your message her

Group info

Language: English

Group categories: Not categorized.

More group info w

Topics 1 - 10 of 2443 Older »

Ok Iva attampted to use several different calculators, but no luck. Can someone please let me know which one I need and maybe

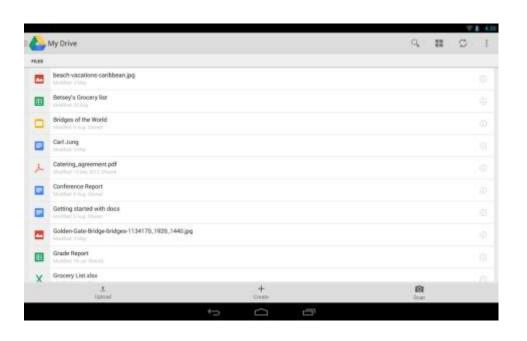




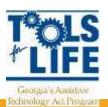
Our Favorite Android Apps

Google Drive





- Upload photos, videos, documents, and other files and access wherever you go
 Share photos and files
 - Make files available offline
 - Scan documents with device camera
 - Up to 15 GB of storage
 - Free

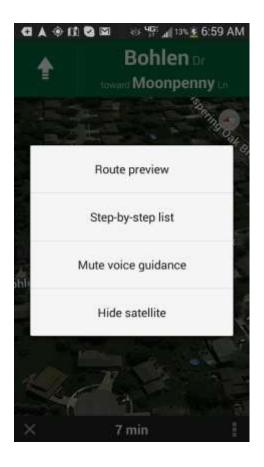


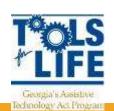
GuideDroid





- fully-accessible, mainstream
 GPS application
- provide walking, biking, driving, and transit directions
- walking directions shows users where they are as they walk, and continually announces street addresses near their current walking location





Go Read





Please listen to the following quick tips on how to use this reader. You can press the menu button to access the main menu. From there, among other features, you may select "Read to Me" to have the book read to you

While listening to a book, you may press the previous button to go back a paragraph, the play/pause button to pause or resume playback, the next button to go forward a paragraph, or table of contents button to access the table of contents.

During book playback you may also access the same features using gestures. Double tap to play or pause.

Go Read Ouick Start



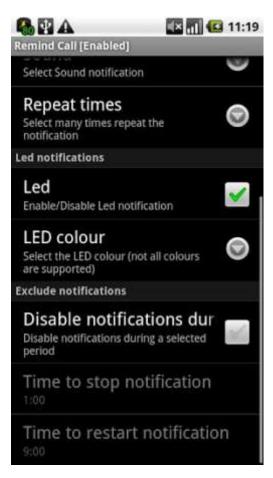
- FREE accessible e-book reader for people with print disabilities
 - Android 2.2 Froyo and above
- Access and download books directly from Bookshare
- Read with voiced navigation and text-to-speech
- Read books in DAISY 3 text and EPUB 2 formats



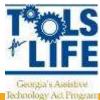
Easy Reminder







- Set alerts to remind you about unread messages or missed calls
- Notification is configurable
 - decide a time slot during which you will not be disturbed
- Free

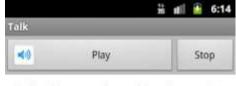


Talk Text to Voice



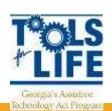


- Convert text to voice using the Text-to-speech engine on your smartphone
- Allows importing web pages directly from the browser to listen to them
- Can also import selected text from other apps



Hello! I can read anything for you! :)





Go Read







Please listen to the following quick tips on how to use this reader. You can press the menu button to access the main menu. From there, among other features, you may select "Read to Me" to have the book read to you

While listening to a book, you may press the previous button to go back a paragraph, the play/pause button to pause or resume playback, the next button to go forward a paragraph, or table of contents button to access the table of contents.

During book playback you may also access the same features using gestures. Double tap to play or pause, Go Read Quick Start



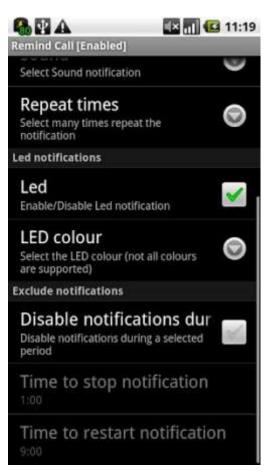
- FREE accessible e-book reader for people with print disabilities
 - Android 2.2 Froyo and above
- Access and download books directly from Bookshare
- Read with voiced navigation and text-to-speech
- Read books in DAISY 3 text and EPUB 2 formats



Easy Reminder







- Set alerts to remind you about unread messages or missed calls
- Notification is configurable
 - decide a time slot during which you will not be disturbed
- Free





The Future of this OS is Limitless



- Google has the futuristic ambition and the funds to take Android to unprecedented heights. In many areas — such as predicting what users will do next.
- Google Now knows that in the morning you're getting ready for work and will tell you about the traffic.



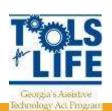


Android Resources

Resources



- http://www.android.com/about/
- http://en.wikipedia.org/wiki/Android (operating system)
- http://en.wikipedia.org/wiki/Android version history
- http://www.google.com/landing/now/#whatisit
- http://www.statista.com/topics/876/android/
- http://en.wikipedia.org/wiki/Google_Play
- http://getvera.com/controllers/veralite/
- http://www.google.com/glass/start/





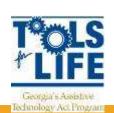
A Closer Look at iOS

Technology Rapidly Evolves



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





Apple iPad/ mini iPad



- Multi- touch screen
- iOS 8
- Millions of apps
- Surf web
- iTunes
- Videos
- Organization
- Accessibility
- Books
- Photos
- Speakers
- Camera
- Starts at \$499/\$399 and mini \$329







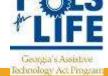
Built-in Accessibility Features



- VoiceOver
- Zoom
- Large Text
- Invert Colors
- Speak Selection
- Speak Auto Text
- Mono Audio
- Assistive Touch
- Guided Access
- Home-Click Speed
- Switch Access
- Braille Displays





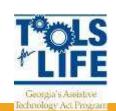


VoiceOver



- Standard feature on iPhones, iPads, and iTouches
- World's first gesturebased screen reader
- DOES NOT WORK WITH ALL APPS
 - Does not work with many eBooks or textbooks
 - Works with built-in apps
- Built-in voices that speak36 languages

- Adjustable speaking rate
- Echoes each character as you touch it when typing or can speak completed word instead.
- Speak Auto-text
- Has the rotor
- Works with all built-in applications





Helpful tips for VoiceOver



The Rotor

- Virtual control
- Rotating 2 fingers on the screen like a dial
- Changes the way VoiceOver (VO) moves through a document based on setting
- Can use to navigate through web pages





Zoom & Invert Colors



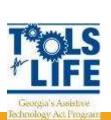
Zoom

- Magnify entire screen of any application
- Double-tap with 3 fingers
- Can magnify 100%-500%
- Works with VoiceOver on

Invert Colors

- Reverse video effect works in all applications
- Can be used with Zoom andVoiceOver

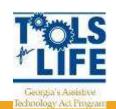




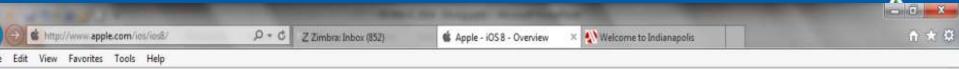
Creating Keyboard Shortcuts



- Go to General => Keyboard and make sure Shortcut is turned on
- Go to Add New Shortcut
- Put in your Phrase
- Create Short Cut
- Example:
 - Phrase : Martha E. Rust, MS CRC ATP
 - Shortcut is: MER
 - So when MER is typed it will put in the above Phrase
 - OMW => On My Way!



iOS 8 Fall 2014



iOS 8 Preview



Our smartest keyboard ever.

iOS 8 makes typing easier by suggesting contextually appropriate words to complete your sentences. It even recognizes to whom you're typing and whether you're in Mail or Messages. Because your tone in an email may be different from your tone in a message.

























iOS 8 iCloud





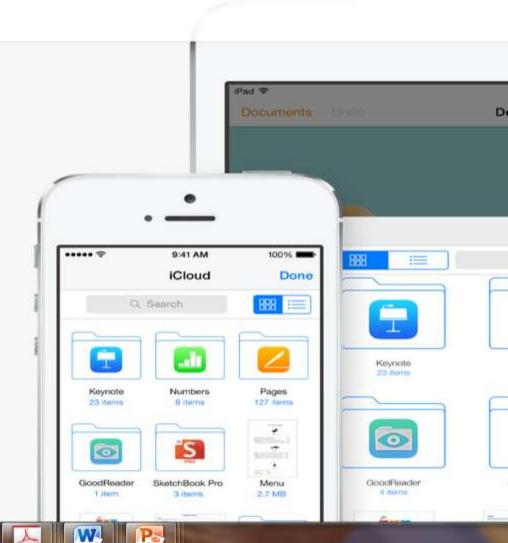
iOS 8 Preview



iCloud Drive. Any kind of file. On all your devices.

The good news: You can work on any file, anywhere. The bad news: You can work on any file, anywhere. That includes presentations, PDFs, images, and more — right from iCloud.

On whichever device you're using, including your Mac or PC.



iOS 8 Health







Health.
An entirely new way
to use your health and
fitness information.

Now your activity tracker, heart rate monitor, and other health and fitness apps can talk to each other. Which means they'll be able to work even harder for you. And all the information is accessible in one easy-to-read dashboard.



iOS 8 Spotlight





iOS 8 Preview



Spotlight. Brighter than ever.

Sometimes you're looking for a contact or an app. Sometimes you're looking for answers. Spotlight now gives you suggestions from Wikipedia entries, places nearby, trending news, and more. It's even smart enough to recognize context and location to offer you the most relevant information.



Apple: Read Text Out Loud



- Open the Settings app on your home screen.
- Tap the General tab.
- Scroll down and tap the Accessibility tab.
- Tap the Speak Selection option (it should be set to off, currently).
- Tap the toggle switch to turn it on. You
 - can also adjust the rate of speech as well.

- Highlight any text like you would if you were going to copy it but tap the "Speak" button instead.
 - This option will change to "Pause" while the text is being spoken so you can stop it at any point.

Can choose to highlight as it

reads

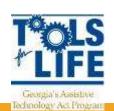




Apple: Quick Tips



- A faster way to reveal the multitasking bar
 - Take four fingers and swipe them up have faster access to the multitasking bar than by double-tapping the home button.
- Turn on Web Privacy Settings
 - Start the Settings app and tap on "Safari." Under the Privacy setting, set the "Private Browsing" switch to the "on" position
- Clicking the space twice while typing will create a period
 - Can make typing on a virtual keyboard easier





Our Favorite Apps

AccessNote







- AccessNote is the official iOS notetaker from the American Foundation for the Blind
- Keyboard commands customized for input with both QWERTY and refreshable braille display keyboards
- Cursor tracking that always keeps your place when you return to a note
- Fast and efficient navigation throughout a note by page, paragraph, line, word, character,
 and other elements.

Free



Reminders

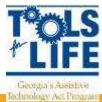








- Built-in App
- Works with VoiceOver
- Organize your reminders
- Siri if have iPhone 4s or 5
- The new iPad



Voice Dream

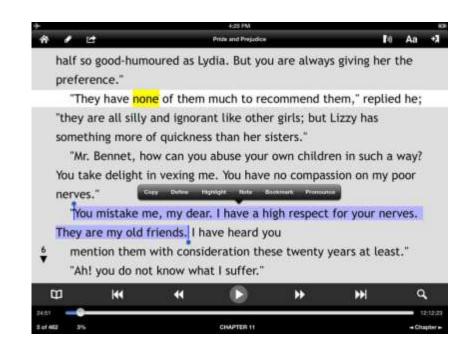






- Text to Speech
- Highlights as it reads
- Import
 - Bookshare
 - Dropbox
 - Gutenburg
 - Word Doc
 - PDFs
- Buy different voices
- Change rate of speed

- Download for later reading
- \$9.99





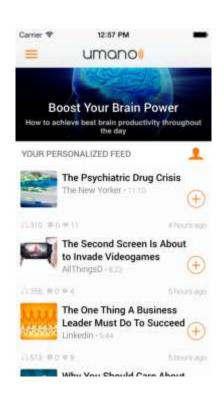
Umano





- News read to you by real people
- Make a playlist of articles
- Download to listen to offline
- Upgrade to premium for \$3.99/ month
- Free





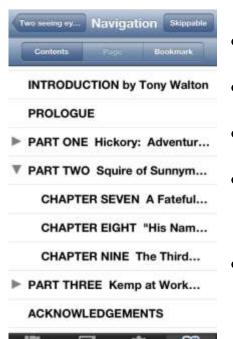


BARD Mobile









- Access directly to the National Library Service for the Blind and Physically Handicapped (NLS)
- Must be registered
- Settings
- Can use with braille display
- http://www.loc.gov/nls/find
 .html
- Free



MyMedSchedule



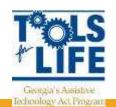






- Keep track of medication
- Reminders
- Refill Reminders
- Healthcare Provider Profiles
- Insurance Information
- Allergies
- Works across Platforms
- Free
- www.mymedschedule.com







Refurbished Tablets







- If you do not need the latest and greatest consider an older models for a discount
- Want to make sure that refurbish tablets have been certified
- Look for at least 1 year warranty
- Many places now sell
 - Apple
 - BestBuy
 - Amazon

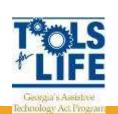








Our Question to You: What have You Learned today?



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