Learn More and Do More: Exploring Accessibility and Apps

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With contributions from Carolyn Phillips, Ben Jacobs and Liz Persaud

www.gatfl.org
Come Visit Us
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.

• Also consider HATT – Cook & Hussey
## Comparing Tablets

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

[www.bluebugle.org](http://www.bluebugle.org) updated by TFL
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…
Great prices on tablets

**Save up to $70.00**
Surface

⭐⭐⭐⭐⭐ (55)
- 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

⭐⭐⭐⭐⭐ (92)
- 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

⭐⭐⭐⭐⭐ (3)
- 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)
- 8.3-inch Full HD display
- Intel Atom Z3770
- 2GB memory/64GB eMMC
- Up to 8 hours battery life

Shop all tablet deals
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 find items anywhere on the tablet
- Share Charm
  - Instant access to ways by which can share current content
- Devices Charm
- Settings Charm
  - Ways to connect tablet to other devices
  - 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 me@onenote.com
  - 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/training/windows8/](http://www.microsoft.com/enable/training/windows8/)
A Closer Look at Android
Version History

ANDROID

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
- 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
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 forward 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.

Browse by category

- (43) Arcade & Action (5)
- Books & Reference (12)
- Brain & Puzzle (3)
- 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)
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 vOICe 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 aqua 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 add 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
Ok I’ve attempted to use several different calculators, but no luck. Can someone please let me know which one I need and maybe even give me a suggestion?
By Christopher Bartlett - Jun 2 - 3 new of 3 messages - Report as spam
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

- 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
Go Read

• 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://www.google.com/landing/now/#whatisit
- http://www.statista.com/topics/876/android/
- 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 gesture-based 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 speak 36 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

DOES NOT WORK WITH ALL APPS

- Does not work with many eBooks or textbooks
- Works with built-in apps

Built-in voices that speak 36 languages
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 and VoiceOver
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!
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.

Learn more ›
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.

Learn more »
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.

Learn more ›
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.

Learn more >
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
• 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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