Wireless Independence Now

An Overview of Smartphone Accessibility Features

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- Questions for the Group
- What is Accessibility
- iOS and Android Accessibility Features
- Assistive and Accessibility Apps
- Accessibility Resources



Questions for the Group

- What type of phone or tablet do you have?
- What do you like about your device?
- What do you not like about your device?
- How did you choose your device?



Accessibility – what does that mean?

- Wireless accessibility is the ability to access and benefit from mobile phones and tablets.
- Accessibility means that a product, device, service, or environment is available and usable to as many people as possible.



Demonstration of Apple & Android Accessibility Features





Apple Accessibility Features



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Apple Accessibility Features

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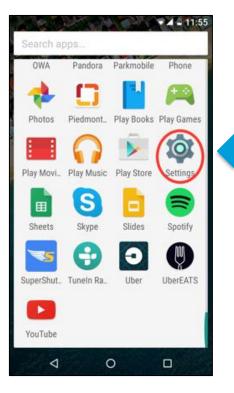
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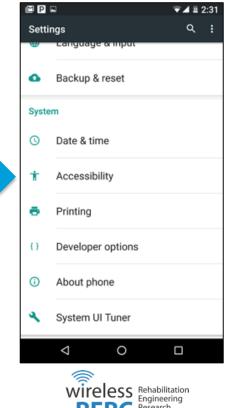




Android Accessibility Features









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Android Accessibility Features

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Accessibility Features Helpful for Everyone

Apple Devices (iPhone/iPad)

- Siri Voice Control
- Accessibility Shortcut

Android Devices (LG, Samsung, HTC Phones/ Tablets)

- Google Now and Ok Google Voice Control
- Accessibility Shortcut



Apple: Siri – Voice Control



Press and hold the Home button or say, "Hey Siri!"





Android: Ok Google – Voice Control



Type in the search bar on top or just say, "Ok Google!"





Apple: Accessibility Shortcut

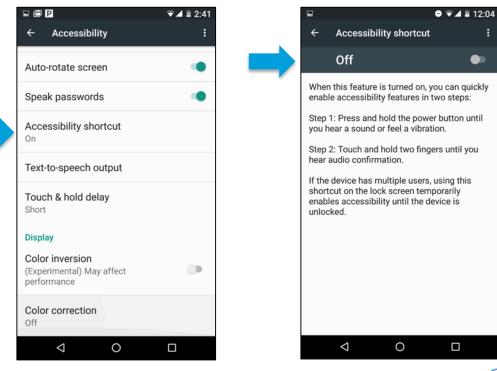
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Android: Accessibility Shortcut







Accessibility Features for People who have Difficulty Seeing

Apple Devices (iPhone/iPad)

- VoiceOver Screen Reader
- Zoom
- Larger Text
- Invert Colors

Android Devices (LG, Samsung, HTC, Motorola Phones/Tablets)

- Talk Back Screen Reader
- Magnification Gestures
- Large Text



Apple: VoiceOver – Screen Reader

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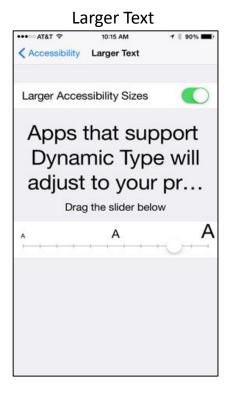




Apple: Zoom, Larger Text, Invert Colors

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Zoom



Invert Colors

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Android: TalkBack – Screen Reader

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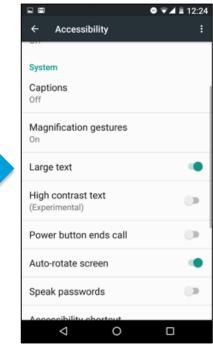


Android: Magnification Gestures, Large Text

Magnification Gestures

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Large Text







Accessibility Features for People who have Difficulty Hearing

Apple Devices (iPhone only)

- Vibrate on Ring
- LED Flash for Alerts

Android Devices (LG, Samsung, HTC, Motorola Phones only)

- Vibrate when Ringing & Vibrate on Touch
- Pulse Notification Light



Apple: Vibrate on Ring, LED Flash for Alerts

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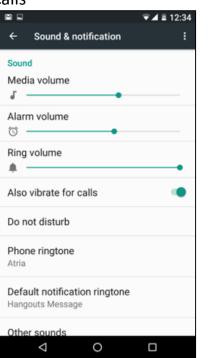
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Android: Vibrate for Calls & Pulse Notification Light

Vibrate for Calls

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Pulse Notification Light

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Accessibility Features for People who have Difficulty Touching or Grabbing

Apple Devices (iPhone/iPad)

- Assistive Touch
- Dictation
- Keyboard Shortcuts
- SWYPE (3rd party app that costs \$0.99)

Android Devices (LG, Samsung, HTC, Motorola Phones/Tablets)

- SWYPE (Built into Android, free)
- Dictation





Apple: Dictation





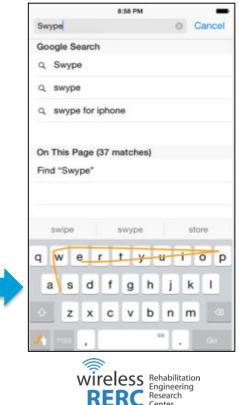


Apple: Keyboard Shortcuts, Swype



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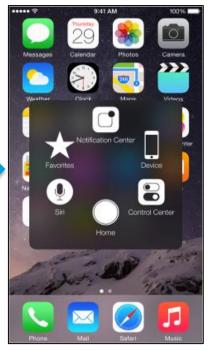
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Apple: Assistive Touch

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Android: Dictation, Swype

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Dictation



Swype



Accessibility Features for People who have Difficulty Concentrating

Apple Devices (iPhone/iPad)

- Guided Access
- Reminders

Android Devices

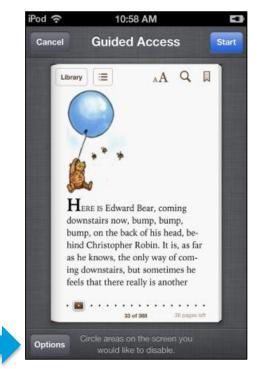
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Apple: Guided Access

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Apple: Reminders



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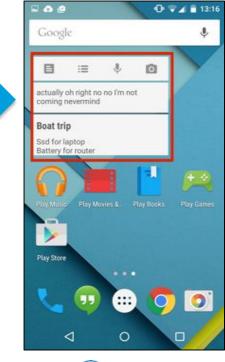




Android: Google Keep

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Examples of Apps for All

Evernote



PillBoxie





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- Take notes in a variety of formats, including: text, sketches, photos, audio, video, PDFs, web clippings and more
- Customizable medication reminder

- Note taking app designed for people with substantial loss of vision
- Simple spending tracker, budget creator and bill reminder





Examples of Apps for Vision Loss

BrailleTouch



IDEAL Currency Identifier

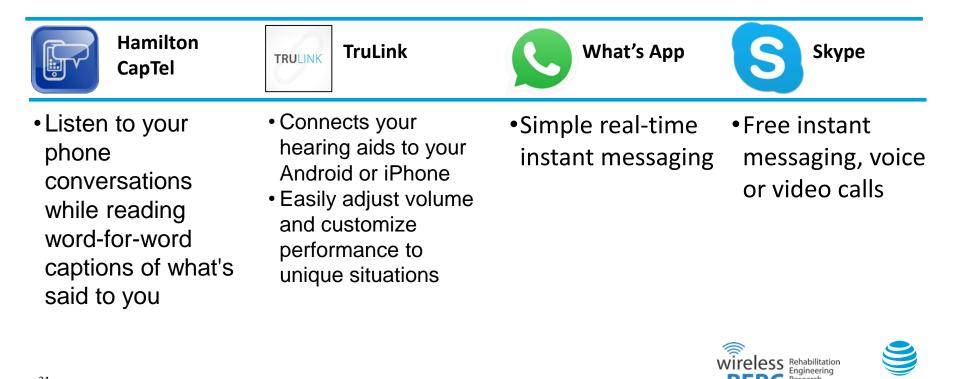


BARD Mobile

- Alternative text input app based on the Braille alphabet
- Identifies three generations of U.S. currency notes beginning in 1993
- •Note taking app designed for people with substantial loss of vision
- Provides access to talking books from the NLS Braille and Audio Reading Download (BARD) site
- Contains nearly 65,000 talking books, magazines, and braille music scores



Examples of Apps for Hearing Loss



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Examples of Apps for Dexterity Impairments

Tetra Alarm



Parking Mobility



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- Highly

 customizable
 timer that notifies
 you of weight
 shifts, bio-breaks,
 or to take meds
- Report disabled parking abuse to your city in less than two minutes
- •Setup your Android keyboard so that it works best for you
- Simplifies user interface of home screen and app pages





Accessibility Resources

- AT&T Accessibility (download presentations) <u>att.com/accessibility</u>
- AT&T Digital You <u>digitalyou.att.com</u>
- AT&T National Center for Customer with Disabilities Voice: 1-866-241-6568; TTY: 1-866-241-6567
- AT&T for Disability and Aging for Wireline Services Voice: 1-800-772-3140; TTY: 1-800-651-5111
- Wireless RERC <u>wirelessrerc.org</u>
- LiveWell RERC <u>livewellrerc.org</u>
- FCC Accessibility Clearing House <u>ach.fcc.gov</u>
- Global Accessibility Reporting Initiative (GARI) gari.info



Thank You!

If you have any questions, contact:

- <u>Ben@imtc.gatech.edu</u>
- 404-894-7034

