



# Android Operating System - A Google Product

- Nook, Kobo and Kindle have a proprietary version of the Android OSs, including their own stores. Some apps cannot be downloaded onto these tablets. Kindle HD uses a screen reader called, Screen Reader, aside from that features are similar or identical to other Android tablets. The newer Kindle models, including the Fire phone, have more robust screen readers and magnifiers.

Device/Model Name	<u>Galaxy Note Tab 10.1</u>	<u>Nexus 7</u>	<u>Transformer Pad (TF701T)</u>	<u>Nook HD+ Tablet</u>	<u>Arc 7</u>	<u>Kindle Fire HD</u>
Manufacturer	Samsung	Google	Asus	Barnes and Noble	Kobo	Amazon
Operating System	Android 4.3 - Honeycomb	Android 4.3 - KitKat	Android 4.3 - KitKat	Android 4.0 - Ice Cream Sandwich	Android 4.2.2 - Jelly Bean	Fire OS 3.0 (Android Mojito)
eBook/textual File Types	App Dependent (All)	App Dependent (All)	App Dependent (All)	PDF, ePub, DRP, ePIB, FOLIO,	App Dependent (All)	Kindle (AZW), KF8, TXT, PDF, unprotected
Where to find Accessibility settings	1. From setup - press and hold two fingers until you hear talking to start TalkBack. If it is not set up, sighted help will be needed to go to : 2. Settings --> Accessibility -->				Reading Menu (bottom right) --> Aa fonts icon AND Swipe down from right side,  Settings --> Accessibility	Settings --> Accessibility --> VoiceGuide  <b>VoiceGuide Only.</b>

## Accessibility Options

- VoiceGuide: On/Off ( Only in Kindle Fire 7")
- TalkBack (Called ScreenReader in newer Kindles): On/Off
  - Will need to allow for best experience:
    - Observe your actions
    - Retrieve window content
    - **Turn on Explore by Touch** – TalkBack will be useless without this on.
    - Turn on enhanced web accessibility
    - Observe text you type
  - TalkBack Settings (not available on all Android tablets)
    - Set speech volume
    - Use pitch changes
    - Keyboard echo
    - Speak when screen is off
    - Set proximity sensor
    - Resume from suspend
  - Feedback settings
    - Vibration feedback
    - Sound feedback
      - Sound volume
    - Focus speech audio
  - Local Context Menu:
  - Global Context Menu:
- Explore by Touch (can be used without TalkBack)
  - Automatically scroll lists: On/Off
  - Launch “Explore by touch” tutorial: On/Off – will start tutorial when you start TalkBack
  - Manage gestures
- Magnification Gestures: On/Off
- Large Text: will increase font size
  - More detailed font increase – Settings --> Display --> Font Size
- Captions: On/Off (a user preference)
  - Language
  - Text size
  - Caption style
- Auto-rotate: Check/Uncheck. Uncheck when using TalkBack
- Speak password: Check/Uncheck
- Accessibility Shortcut: On/Off
- Text-to-speech output
  - Preferred engine, Language, Speech rate, Listen to an example
- Touch & hold delay

## TalkBack/Explore by Touch Gestures

\*gestures can be assigned to other tasks, default is listed

Use this Gesture	To do this
Two-finger swipe left anywhere on screen	To unlock a locked screen
Drag one finger	Explore your screen and hear audible feedback for what is being touched (menus and items)
Double-tap anywhere on the screen	Opens or activates the item that you last touched
One-finger swipe right (or down)	Move to the next item
One-finger swipe left (or up)	Move to the previous item
Two-finger swipe up or down, swipe left or right	Scroll lists and pages up or down OR left or right
Two-finger swipe left or right	Move to next or previous page
* One-finger swipe up and then down OR one-finger swipe down and then up	Move to first and last items on screen (default)
* One-finger swipe down then left	Go back to previous screen
* One-finger swipe right then down	Open quick settings and notifications
Two-finger swipe from left edge	Open Navigation Panel in content library or store
* One-finger swipe up then left	Go to Home screen
Portrait: Two-finger swipe from bottom. Landscape: Two-finger swipe from right edge	Show recently open apps or content
* One-finger swipe up then right	Open local context menu (circle of items)
* One-finger swipe down then right	Open global context menu (circle of items)
* One-finger swipe left then up	Recent Apps
* One-finger swipe right then up and left then up	Unassigned.

Gestures that can be assigned: back, home, recent apps, open notifications, open global context menu, open local context menu, **read from top, read from next item.**

<b>Local Context Menu Items</b>  <b>Once you have selected an item, swipe to the right or left to move by menu item on page.</b>	<ul style="list-style-type: none"> <li>• Default granularity (reads content of focused item), page granularity, paragraph granularity, line granularity, word granularity, character granularity, cursor control (only when in a edit field), links (only when content has links), page control (when horizontal scrolling is an option), label control</li> </ul>
<b>Global Context Menu Items</b>	<ul style="list-style-type: none"> <li>• Inside circle menu: quick navigation, read from top, spell last utterance, read from next item.</li> <li>• Outside circle menu: Pause feedback: (Tap top left corner) and TalkBack Settings (tap top right corner)</li> </ul>

Keyboard with TalkBack	
Using the Keyboard	Touch keyboard and move finger across on-screen keyboard. Release finger when you hear the letter you want to select and it will be added to text box/field. When you move outside of keyboard, you will heard a high-pitched tone.
Word list	<ul style="list-style-type: none"> <li>• Type first letter of a word, move your finger until you hear tone saying you are outside of the keyboard area.</li> <li>• WITHOUT LIFTING FINGER, draw circles clockwise to hear list of suggested words. To cycle backwards, draw counterclockwise circle.</li> </ul>

Magnification Gestures	
Use this Gesture	To do this
One-finger triple tap and release	Enter or exit an app to get out of magnification
One-finger triple tap and hold	Temporary magnify
One-finger triple tap, hold and drag	Pan around screen while magnified
2+ finger drag	Pan across screen
Pinch two fingers or more together and apart	Adjust zoom level

## Android Support

### General Android

Android Accessibility Help: <https://support.google.com/accessibility/android/#topic=6004781>.

Speech settings - Android Accessibility Help: [https://support.google.com/accessibility/android/answer/6006589?hl=en&ref\\_topic=6005000](https://support.google.com/accessibility/android/answer/6006589?hl=en&ref_topic=6005000).

### Galaxy Note Tab

Samsung Support: <http://www.samsung.com/us/support/>

### Google Nexus 7

Nexus Help: <https://support.google.com/nexus/?hl=en#topic=3415468>.

Nexus 7 | National Federation of the Blind Write-up: <https://nfb.org/blog/atblog/nexus-7>.

### Asus Transformer Pad

Asus Transformer Pad User Guide: [http://dlcdnet.asus.com/pub/ASUS/EeePAD/TF701T/e8803\\_tf701t\\_em\\_v2\\_for\\_web\\_only.pdf](http://dlcdnet.asus.com/pub/ASUS/EeePAD/TF701T/e8803_tf701t_em_v2_for_web_only.pdf).

### Nook HD

Nook HD+ User Guide: [http://img1.imagesbn.com/plimages/nook/nook07/mediakit/User\\_Guide\\_NOOK\\_HD\\_Plus\\_v8.pdf](http://img1.imagesbn.com/plimages/nook/nook07/mediakit/User_Guide_NOOK_HD_Plus_v8.pdf)

### Kobo Arc 7

Kobo.com: <http://www.kobo.com/koboarc7#overview>.

RNIB Kobo eBook readers Review: <http://www.rnib.org.uk/information-everyday-living-reading-ebook-reader-reviews/kobo-ebook-readers>.

### Amazon Kindle

Amazon : Kindle for PC with Accessibility Plugin: [http://www.amazon.com/gp/help/customer/display.html/ref=help\\_search\\_1-9?ie=UTF8&nodeId=200596280&qid=1410160647&sr=1-9](http://www.amazon.com/gp/help/customer/display.html/ref=help_search_1-9?ie=UTF8&nodeId=200596280&qid=1410160647&sr=1-9).

Amazon.com Help: Kindle Support: [http://www.amazon.com/gp/help/customer/display.html/ref=hp\\_bc\\_nav?ie=UTF8&nodeId=200127470](http://www.amazon.com/gp/help/customer/display.html/ref=hp_bc_nav?ie=UTF8&nodeId=200127470).