Mobile Device Features That Bear on A11y

Type	When (Android)	When (iOS)	When (Other)	Category	Feature Name Android	iOS	Or general/persistent feature	Feature Details	Default?	% of users turn this on	Related	Android Feature details	iOS Feature details	Accessibility Tree-off?	Related WCAG	Related FC	Related Max

Note: there are some unique features in Samsung, HarmonyOS that we might want to add

Mobile Device Feature Sources

Source	Link	Description	Date
Apple	https://support.apple.com/en-us/118721	iOS 17 updates	2023
Apple	https://support.apple.com/en-us/101566	iOS 16 updates	2022
Apple	https://www.apple.com/ios/ios-15-preview/features/	iOS 15 features preview	2021
Apple	https://www.apple.com/ios/ios-14/features/	Current iOS features (14)	
Apple	https://support.apple.com/en-us/HT211808	iOS 14 updates	2020
Apple	https://support.apple.com/en-us/HT210393	iOS 13 updates	2019
Apple	https://support.apple.com/en-us/HT209084	iOS 12 updates	2018
Apple	https://support.apple.com/en-us/HT208067	iOS 11 updates	2017
Google	https://www.android.com/accessibility/	Android 12 features list	2021
Google	https://developer.android.com/about/versions/12/summary	Android 12 features and change list	2021
Google	https://www.android.com/android-11/	Android 11 features	
Google	https://developer.android.com/about/versions/11	Android 11 dev	
Google	https://www.android.com/android-10/	Android 10 features	
Google	https://developer.android.com/about/versions/10/	Android 10 dev	
Google	https://www.android.com/versions/pie-9-0/	Android 9 features	
Google	https://developer.android.com/about/versions/pie/android-9.0	Android 9 dev	
Google	https://www.android.com/versions/oreo-8-0/	Android 8 features	
Google	https://developer.android.com/about/versions/oreo/android-8.0	Android 8 dev	
Wikipedia	https://en.wikipedia.org/wiki/Windows_Phone	Windows phone history	2010-2020
Pew Research Cent	https://www.pewresearch.org/internet/fact-sheet/mobile/	US Smart phone ownership	

Apple	https://developer.apple.com/documentation/uikit/uiaccessibility/1	Google	https://developer.android.com/reference/android/content/res/Configuration#fontWeightAdjustment

Apps That Bear on A11y

Type	App (Android)	App (iOS)	Other apps that do the same thing	Category								Related PC	Related Mac														
		Seeing AI	Envision AI, Aira, Be my eyes (involves people as well Vision																								

This is a W3C Mobile Accessibility Task Force Working document.
It lives in the **MATF Shared** folder:
https://drive.google.com/drive/folders/1Q9md2AwmeTgvsT9GB62BaGyCaaiDGtE6?usp=sharing

Related Documents	URL
Research spreadsheet	https://docs.google.com/spreadsheets/d/1zinXnFksB7Ur1RAJCoDxtEUfF7QX9n6J8xLUdzwKMo/edit?usp=sharing
Problems, Solutions, Important, Like spreadsheet	https://docs.google.com/spreadsheets/d/10LHkd9iJK2K1ARZ6qObCzPVWBUhXQzl0VYACZQrtJFM/edit?usp=sharing

Mobile Device Features That Bear on A11y As of 2021 (Android 11)

Type	Feature	Android Feature Details	Notes
Vision	TalkBack	Screen reader for Android	
Vision	TalkBack braille keyboard	6-dot braille input	Only unified English supported
Vision	Display size	Persistent setting to adjust size of objects on screen	
Vision	Font size	Persistent setting to adjust size of text on screen	
Vision	Magnification	Temporarily zoom screen	
Vision	Contrast	High, dark theme, color inversion, color correction	
Vision	Select to speak	Spoken feedback about items on screen, or where camera is pointing	
Vision	Lookout	Computer vision to give visually impaired users information on their surroundings	
Vision/ Cognitive/Motor	Voice Access	Control device with spoken commands (numbers elements on the screen)	
Vision/ Cognitive	Google assisstant	Voice interaction	
Motor	Switch Access	Switch input instead of touchscreen	
Vision/ Cognitive/Motor	Action blocks	Customize buttons for routine actions on home screen	
Vision/ Cognitive	Time to take action	Users can choose how long to show actionable messages	
Vision	BrailleBack	Braille output to a refreshable Braille display	Works with TalkBack for combined speech and braille experience to edit text
Hearing	Live Caption	Realtime captions for audio from device	
Hearing	Live Transcribe	Realtime captions for speech captured by the device	
Hearing	Sound Notifications	Alerts about sounds such as fire alarm in user's home	
Hearing	RTT	Real-time text during calls	
Hearing	Sound Amplifier	Wired or bluetooth headphones to filter, augment and amplify sounds in user's environment	
Hearing	Hearing aid support	Pair hearing aids with Android device	