

What are people using?

Informal survey done via my Facebook page

78.9% iOS only

4.3% Mostly iOS, some Android

13.1% Android only

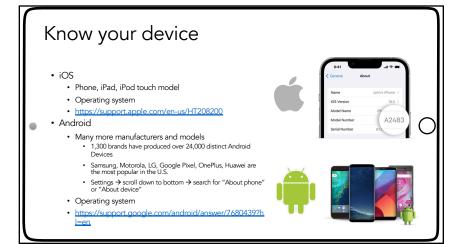
3.7% Most Android, some iOS

Hearing Aid Compatibility Task Force / Final Report and Recommendation

64% iOS vs. 36% Android (55+ year olds)

47% iOS vs. 54% Android (40-54 year olds)

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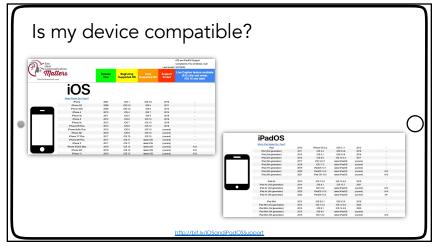


		<i>10</i> 5	ANDROID	
	Customized sound	•	•	
•	Speech-to-text transcription	•	•	
	Live captioning of media	•	•	
	Live captioning of phone calls and video calls	•	•	
	Environmental sound recognition	•	•	
	Mono audio	•	•	
	Background sounds (e.g., tinnitus masker)	•		
	Measure noise levels	•		
	Mirror watch to phone	•		



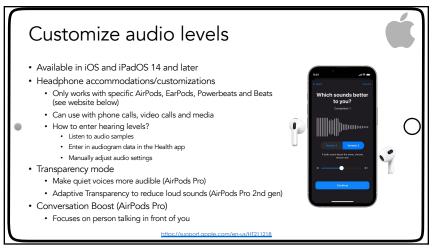


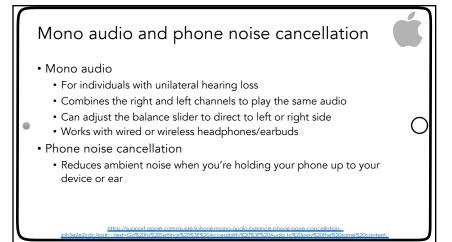
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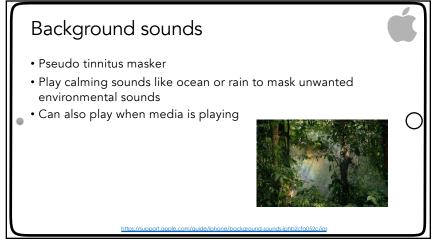








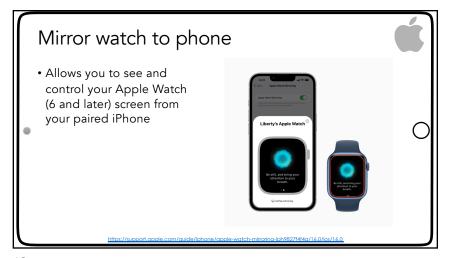




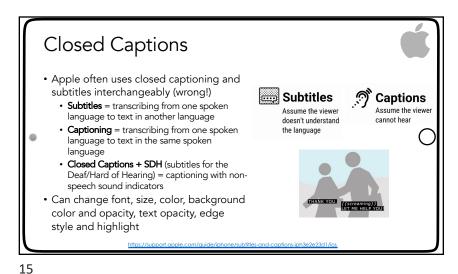


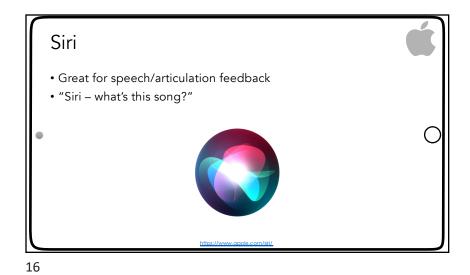
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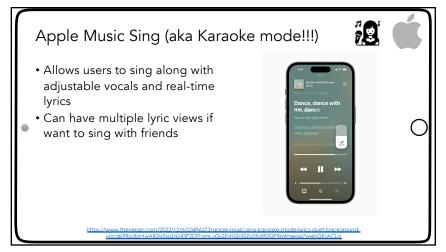


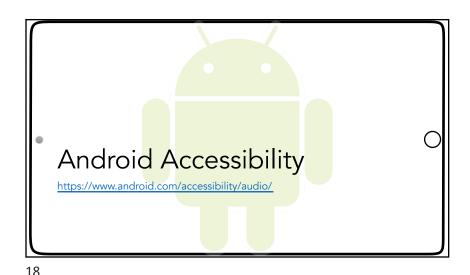


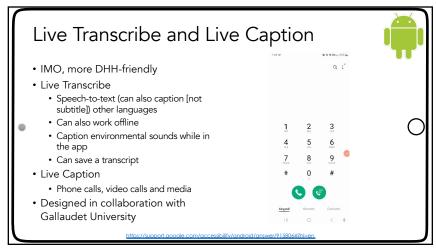






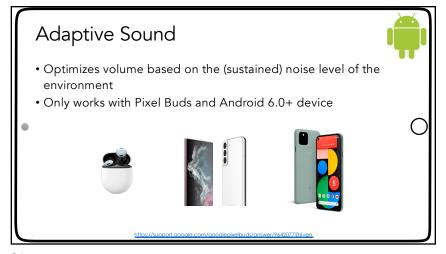


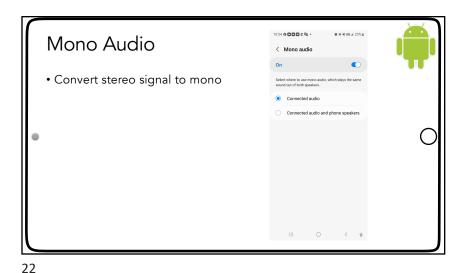


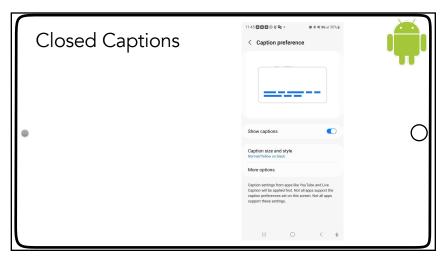


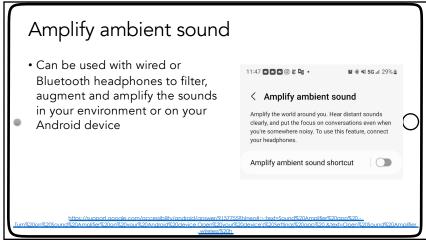








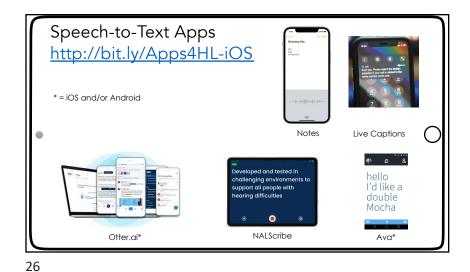




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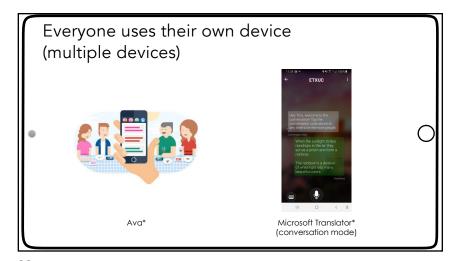












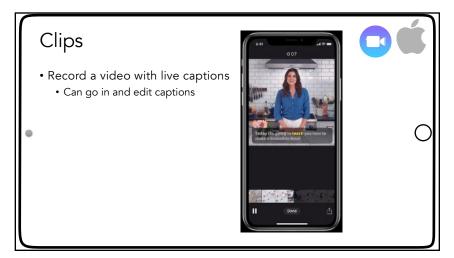
Microphones to improve accuracy

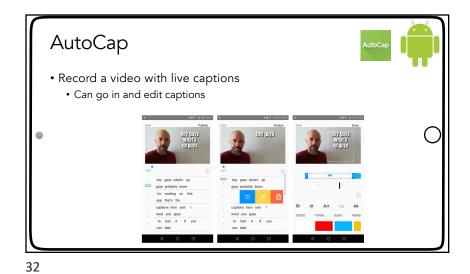
Testing 12
3.

Wireless Shotgun Wired lapel

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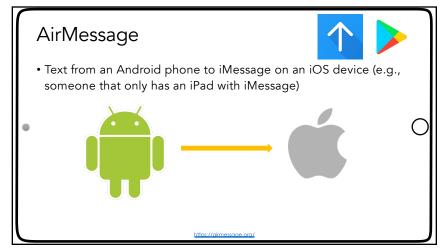


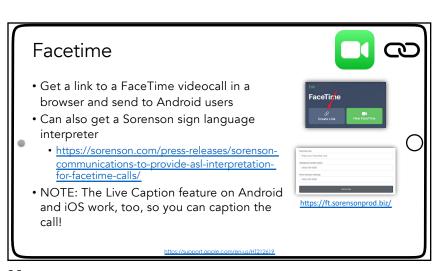
Apps that work with hearing aids, cochlear implants and bone anchored hearing systems

Change programs
Change settings
Check battery status
Listening check
Stream
Locate devices
Troubleshooting
Remote microphone

iOS and Android working together

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### Real-Time Text

ĒT

- Works with TTYs
- Don't need a special number
- Can send and receive text in R-E-A-L T-I-M-E
- Can use simultaneously with voice
- Works with any device, any network

- Can call
  - Emergency services by dialing 911
    - · This is NOT the same as Text-to-911
      - · Only available in certain areas
      - https://www.fcc.gov/consumers/guide what-vou-need-know-about-text\_ 911#:~:text=Text%2Dto%2D911%20is %20the.during%20an%20emergency% 20whenever%20oossible.
  - Relay services by dialing 711
  - TTY users (individuals, businesses and government agencies)

ttps://www.fcc.gov/consumers/guides/real-time-text-improving-accessible-telecommunications

## Access on phones

· Standalone Videophone or computer

Interpreter

ASL

Deaf Caller

program

VRS apps





Hearing Caller

- Specialized landline phone with a caption display (e.g., CapTel)
- Universal captioning native to the device -Live Captions (iOS) and Live Transcribe (Android)
- Mobile phone captioning apps many can also be viewed on a computer monitor
  - InnoCaptic
- Service that transcribes voicemail

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# 38

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#### MFi / MFA / ASHA



- MFi (Made for iPhone)
  - Proprietary Bluetooth Low Energy protocol
  - Can detect location using the iPhone's GPS locator
- Made for All (MFA)
  - Proprietary Phonak technology that can connect with all Bluetooth-enabled phones
- ASHA (Audio Streaming for Hearing Aid)
  - Proprietary Bluetooth Low Energy protocol for Android

If you don't have a compatible hearing device or phone, then you will need some kind of accessory for hands-free calling

#### Made for iPhone MFi devices



#### Compatible Apple devices:

- iPhone 5 or later
- iPad Pro (all models)
- iPad Air (all models)
- iPad (4th generation) or later
- iPad mini (all models)
- iPod touch (5th generation) or later

# Hearing device manufacturers (check specific models):

- MED-EL (AudioStream)
- Cochlear (BAHA 5s, Kanso 2, Nucleus 7)
- Oticon Opn/S/Play, More
- Oticon Ponto 4, 5 and Sentio 1
- ReSound

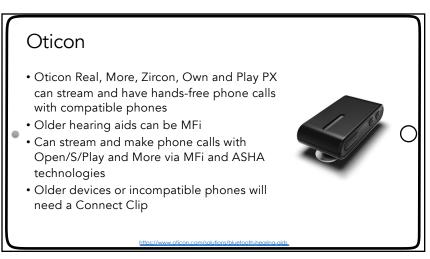
https://gupport.apple.com/on.us/HT9014











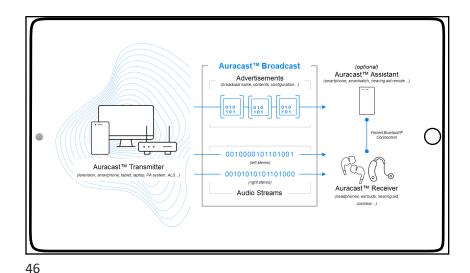


# Bluetooth developments

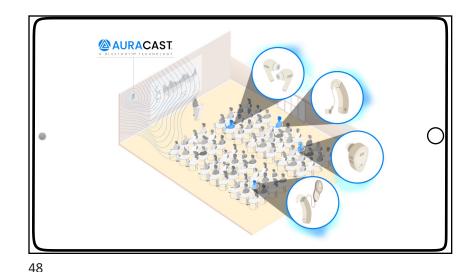




- Blessing and a curse
- AuraCast is coming! (<a href="https://www.bluetooth.com/auracast/">https://www.bluetooth.com/auracast/</a>)
  - aka Bluetooth LE Audio (not to be confused with Bluetooth LE)
  - Will take 5-10 years for full implementation but we're already seeing products with the requisite chip (e.g., Nucleus 8)
    - There has been discussion about intermediary devices that can access Auracast even if you don't have the requisite Bluetooth chip
    - In the meantime, induction loop systems will stay in place and there is discussion about hybrid devices that can access induction loop and Auracast broadcasts
    - Many hearing device companies have been involved in this development















The App Lists for iOS and Android Accessibility Advocacy Audiology CaptioningClassroom ToolsHearing Test Listening Therapy • Media Player Personal Ámplifier Sign Language Sound Level Meter • Speech/Language • Telecommunication Master List\* • Resources (e.g., favorite developers, http://bit.lv/Apps4HI-iOS blogs, and websites)



