

# Assistive Hearing Tech

## Tips, Apps and More



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# Introduction



The most advanced piece of technology in this photo!



# Music Producer



Isaac Stern



Philip Glass



Jean-Pierre Rampal



New York Philharmonic



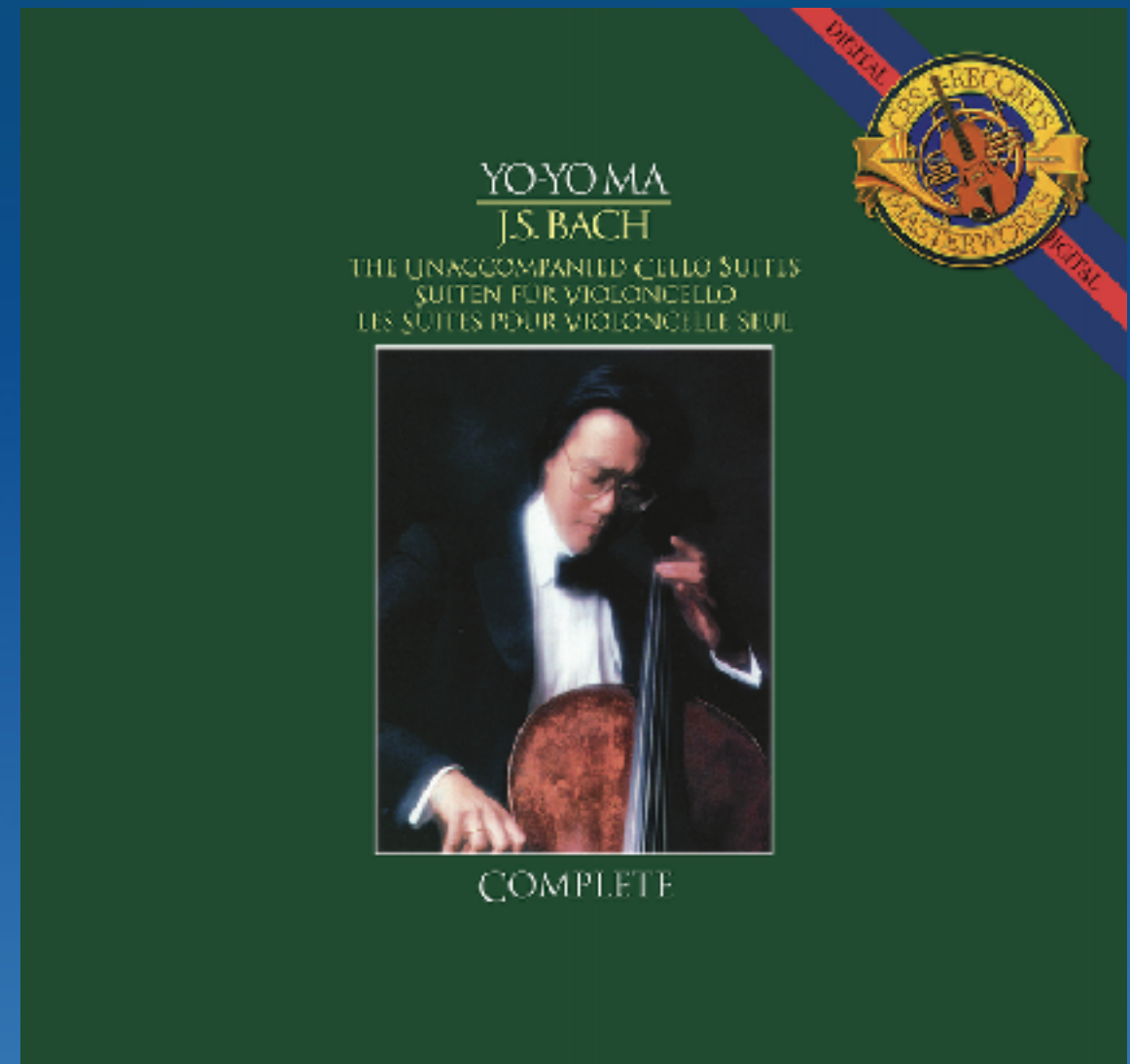
Glenn Gould



# Music Producer



Yo-Yo Ma



Grammy Winner



# Composer





# Sudden Hearing Loss

## June 10, 2010



Lenox, Massachusetts







# Disclosures

- I both advocate for people with hearing loss and consult with numerous companies on hearing technology
- When/if I mention tech from a company I consult for, I will disclose it and, if possible, discuss a competitor's product
- I do not endorse any company's products.



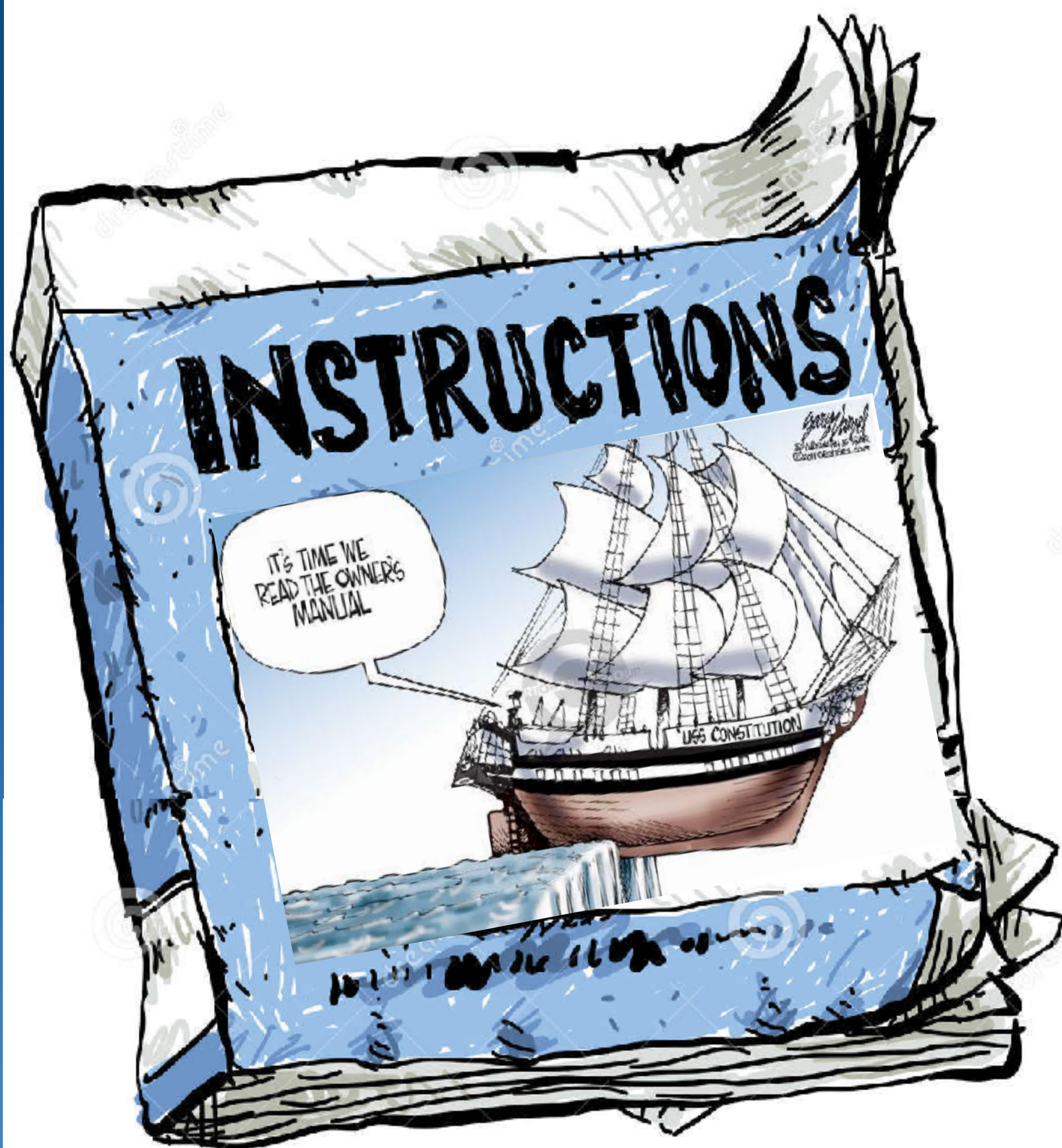
# How To Approach Tech

- It's not your fault
- Treat it like a game
- Use Google
- Ask your kids
- Practice!
- And, very important...

A cartoon illustration of Homer Simpson from 'The Simpsons'. He is shown from the chest up, wearing his signature blue shirt and yellow tie. He has a large, round yellow head with a few strands of hair on top. His eyes are wide open and looking upwards with a confused or overwhelmed expression. He is holding a large, folded newspaper in front of him with both hands. The background is dark and indistinct, suggesting an indoor setting. The overall tone is humorous, reflecting the common experience of feeling lost when learning new technology.

I DON'T UNDERSTAND ANYTHING.

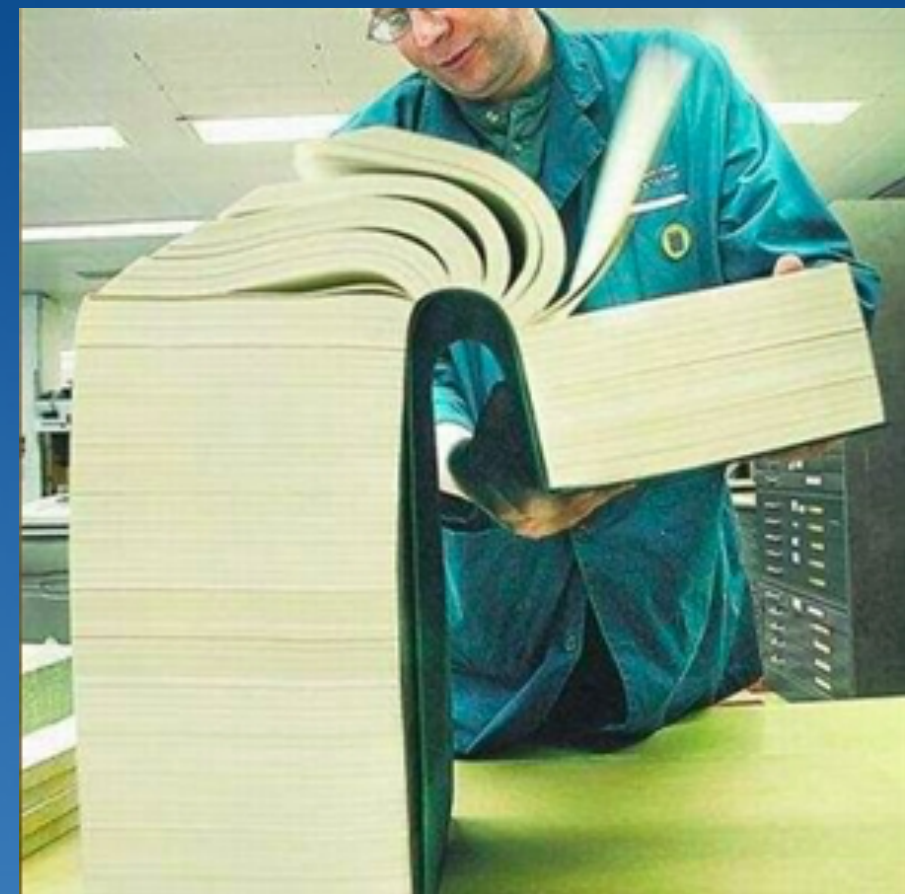






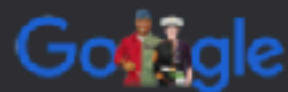
# How to Read a Manual

- Turn every page, from cover to cover
- Look carefully at the Table of Contents
- Look carefully at the Index
- Ignore any and all hype
- When you need the info, read slowly
- And...





# Google is your Friend



hearing loops



<http://www.hearingloop.org> ⋮

## Hearing Loop

Thanks to the refinement of "induction **loop**" systems--which magnetically transmit sound to **hearing** aids and cochlear implants with telecoils (T-coils)—that ...

## 📺 Videos ⋮



How Hearing Loops Work: What is a Hearing Loop and how ...

YouTube · OTOjOY  
Jun 15, 2015



How does a Hearing Loop work (induction loop, T-loop or ...

YouTube · Ampetronic  
Jun 1, 2016

2 key moments in this video



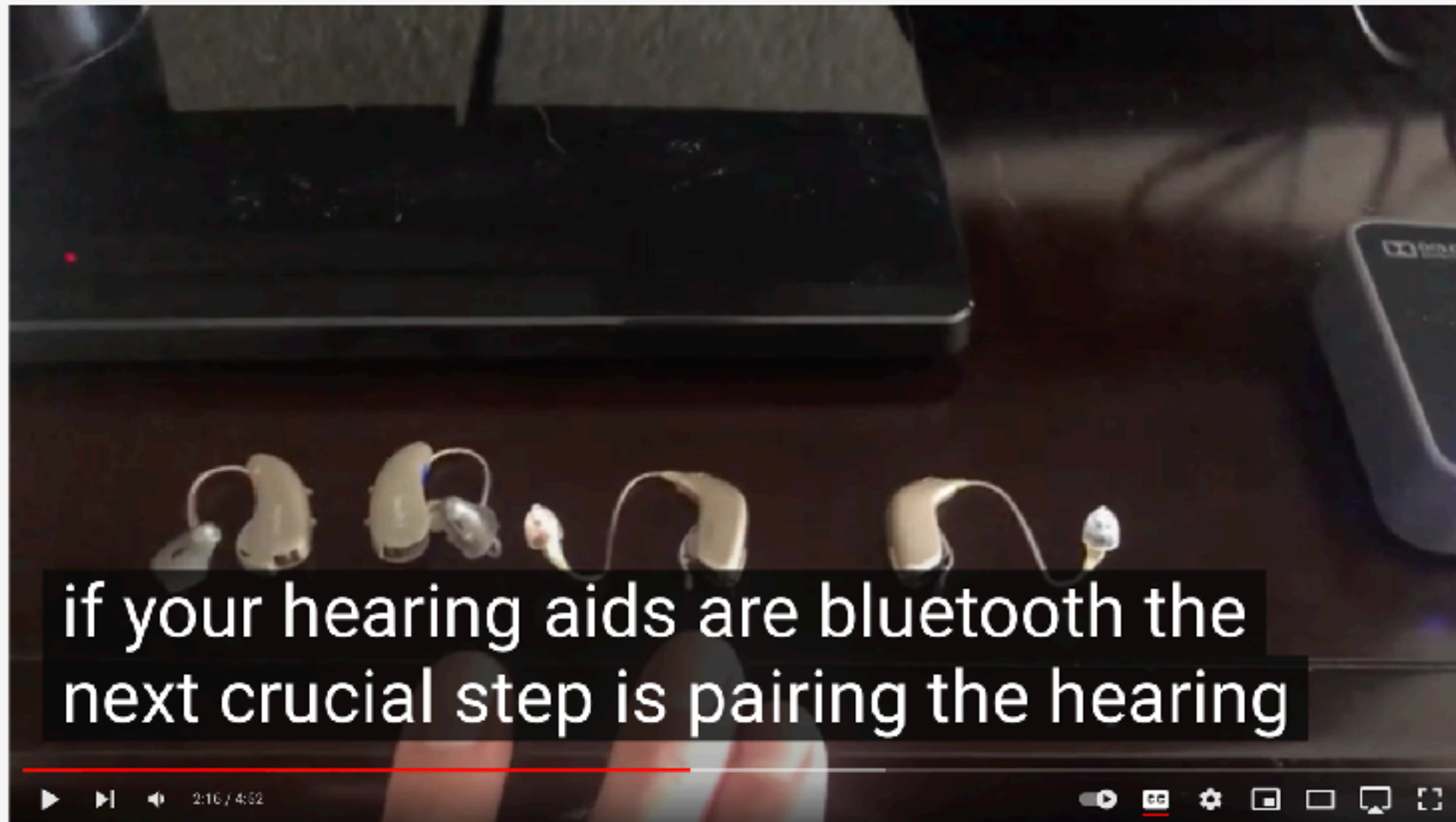
Introduction to hearing loops for transport



# YouTube Is Your Friend



how to use bluetooth hearing aids



How to connect your hearing aids to your TV box.

16,243 views • Apr 3, 2020



SHARE



SAVE

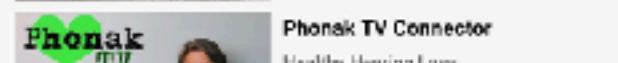
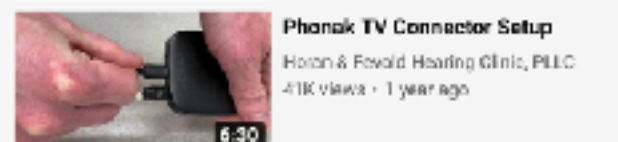
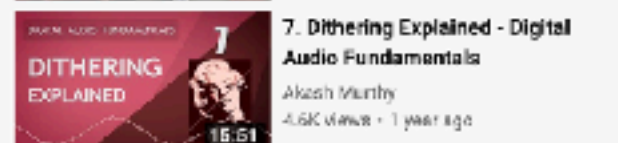
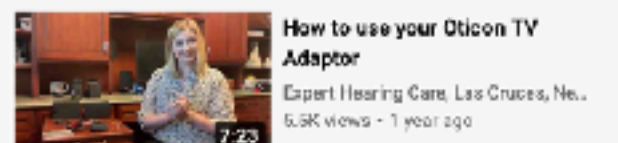
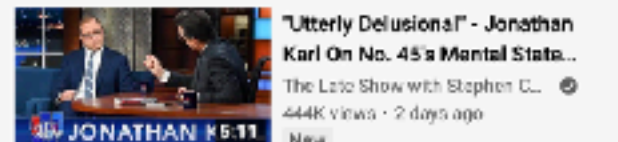
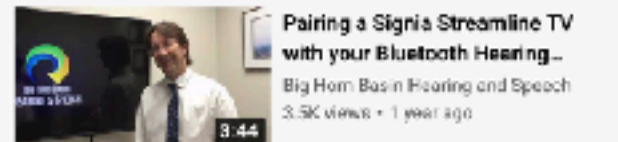
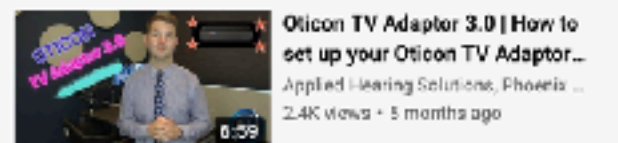
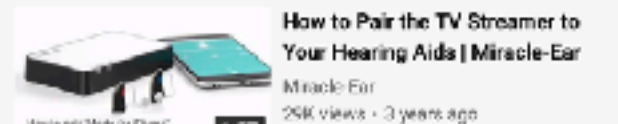


WorthHearingCenter

29 subscribers

SUBSCRIBE

All Gadgets Audio Equipment Related







# Troubleshooting



# How to Troubleshoot

Stay calm

Define the problem

Consider simple solutions first

Are the batteries dead?

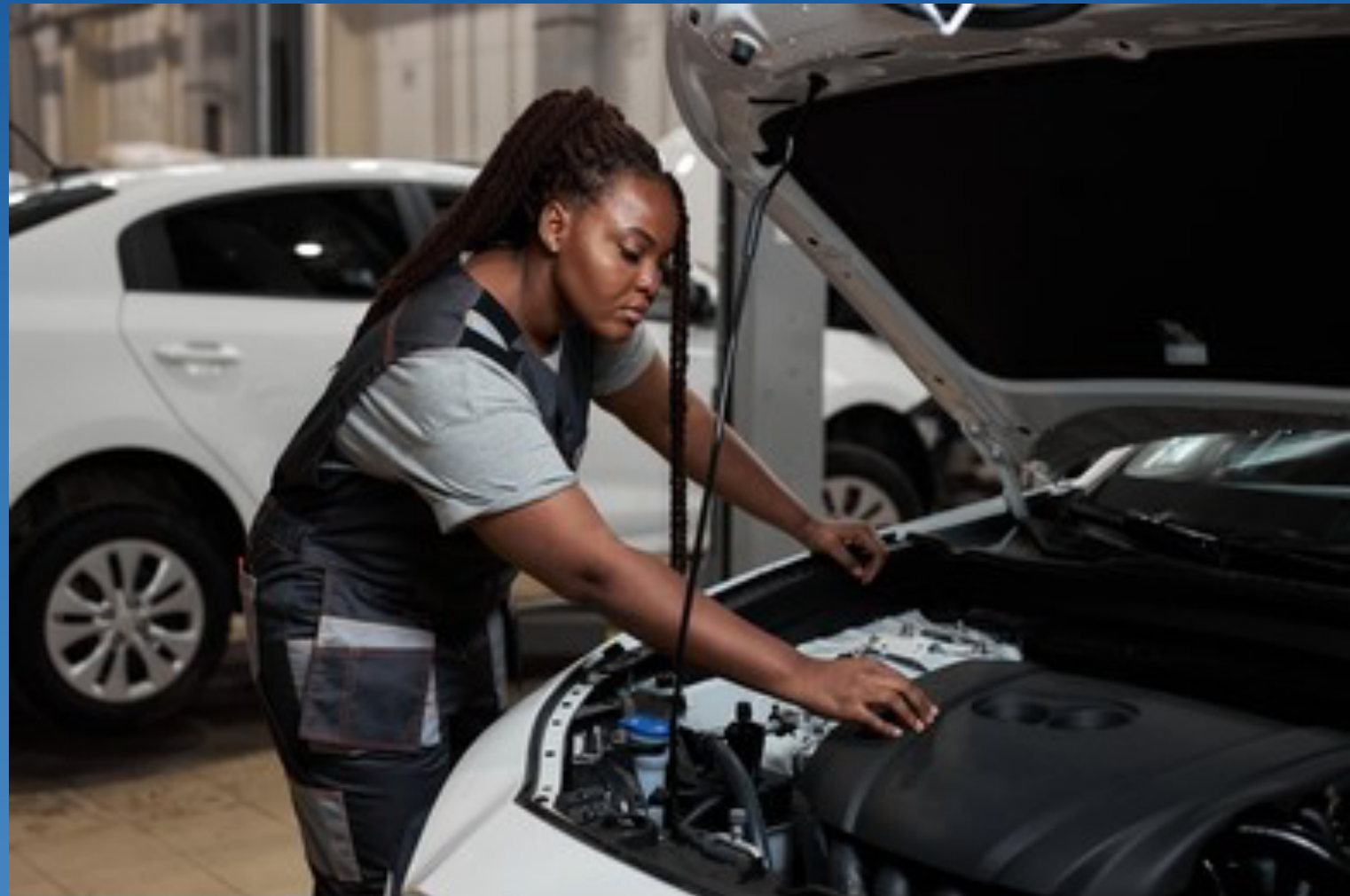
Is it unplugged?

Turn devices off, wait 5”+ and turn them on

GIYF/YTIYF

If nothing works, try to work around it

Stay calm





# General Hearing



# Hearing Aids/Cochlear Implants





# Hearing Aids/Cochlear Implants

## Some Important Assistive Features

- Access to a great audiologist (by far the most important!)
- Presets
- Volume control
- Left/Right balance control
- Telecoil – for hearing loops
- Bluetooth for phone calls, video calls, and other audio (aka Made for Smartphone)
- Has useful, easy to use remotes and TV adapters



# Hearing Aids and CIs Have Limitations





# Situations

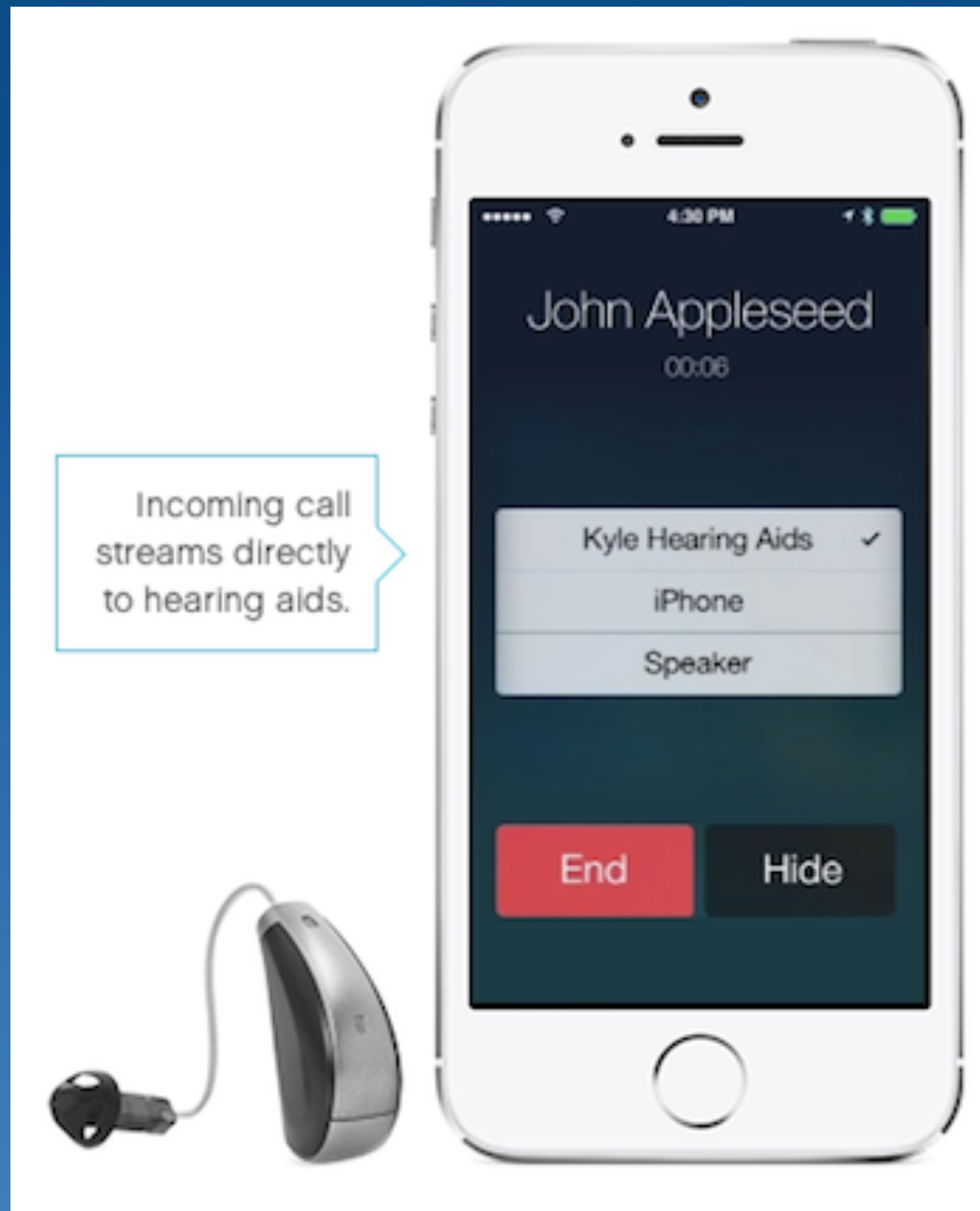
- Phone calls
- Video Calls, webinars, etc
- TV
- Restaurants
- Music

# Phone Calls





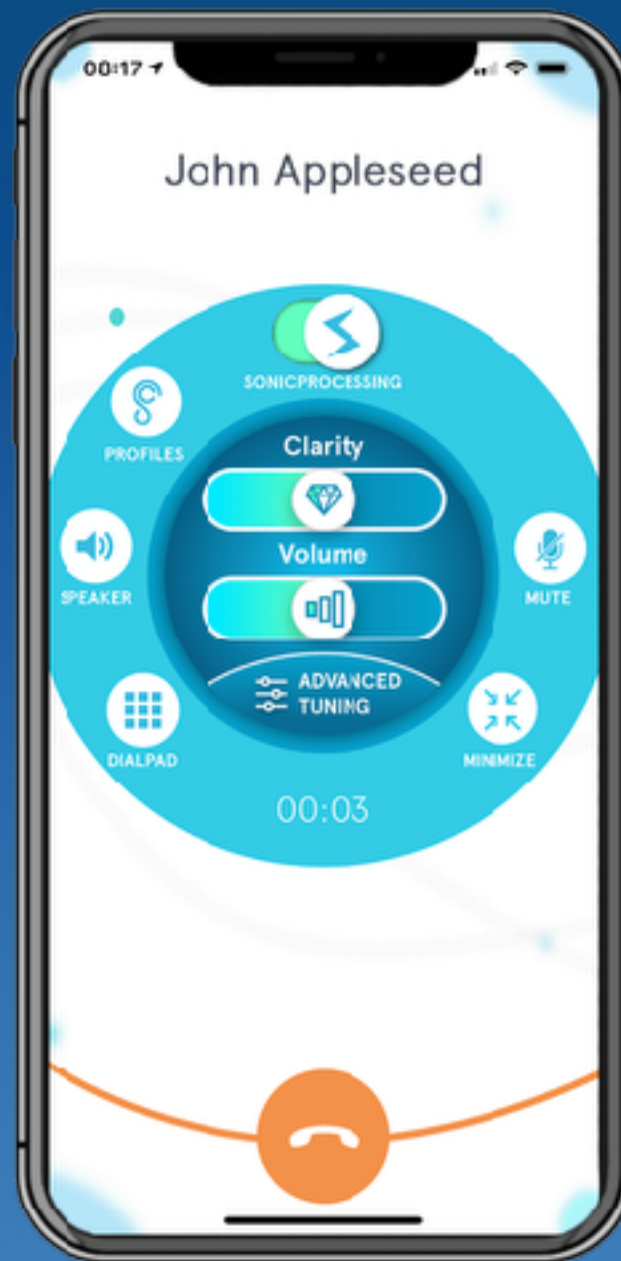
# Phone Calls



# Made for Smartphone

# Phone Calls

\$9.99/mo



# SonicCloud



# Phone Calls



Landline

Phone Adapter

Streamer

# Phone Adapters

# Phone Calls



Telecoil



# Phone Calls



# Amplified Phones

# Phone Calls

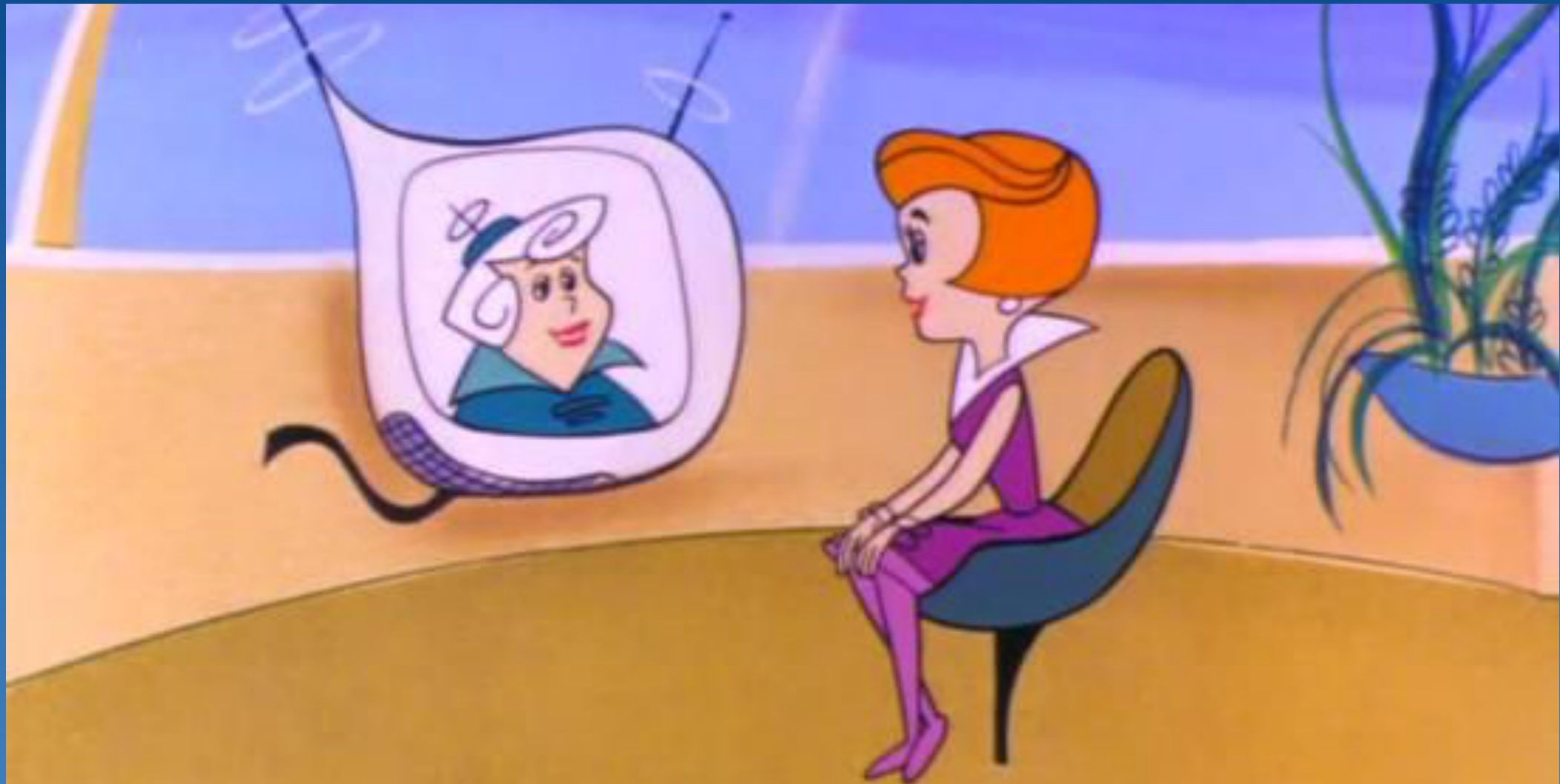


Advocacy Issue?

# Captioned Phones



# Video Calls, Webinars, etc.



## Tips

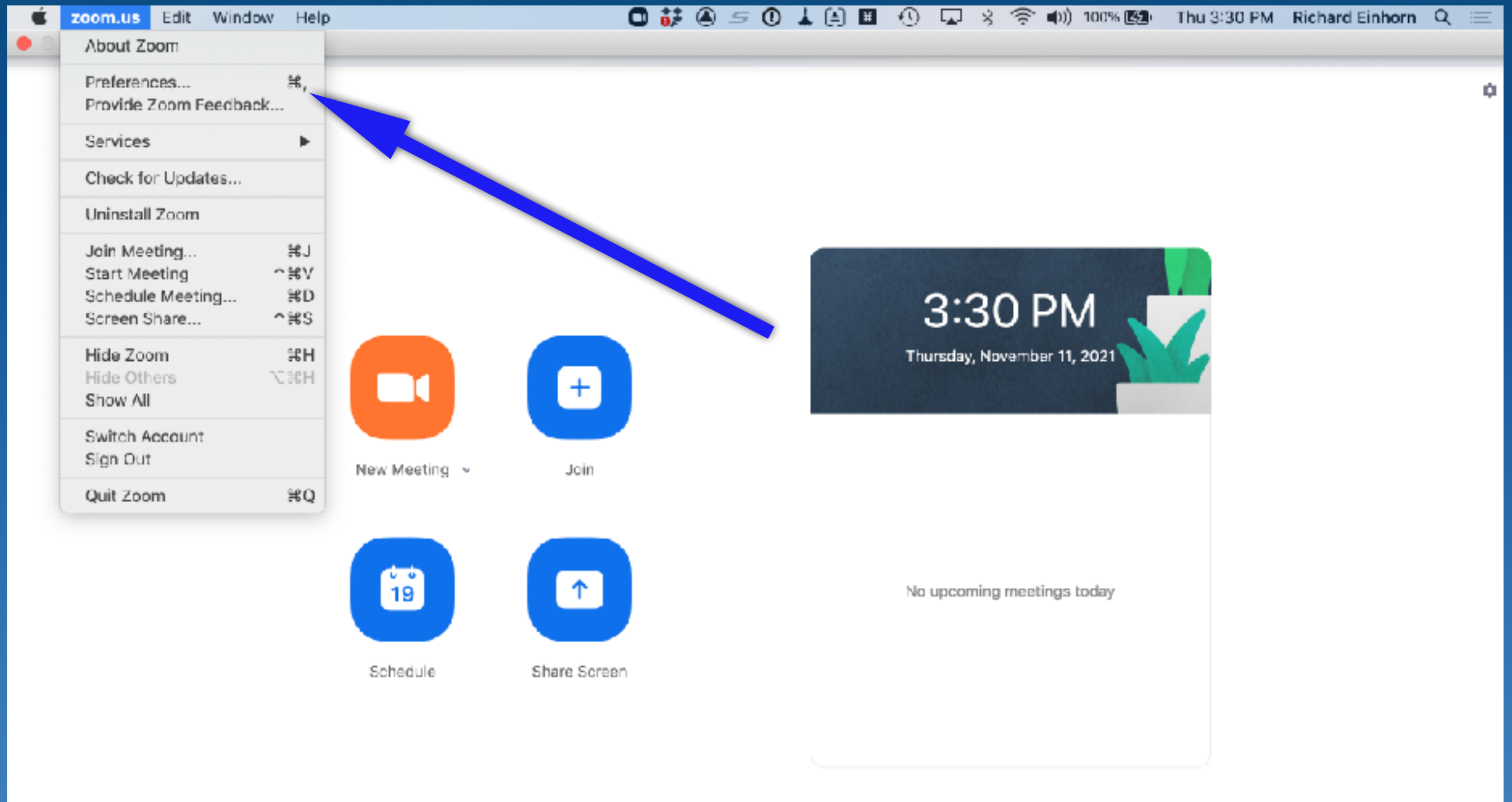
# Video Calls, Webinars, etc.

- Try going to the settings or preferences for the program you're using
- Then look for the video and audio (sound) settings and adjust them
- Be sure that the volume is turned up!

When in trouble

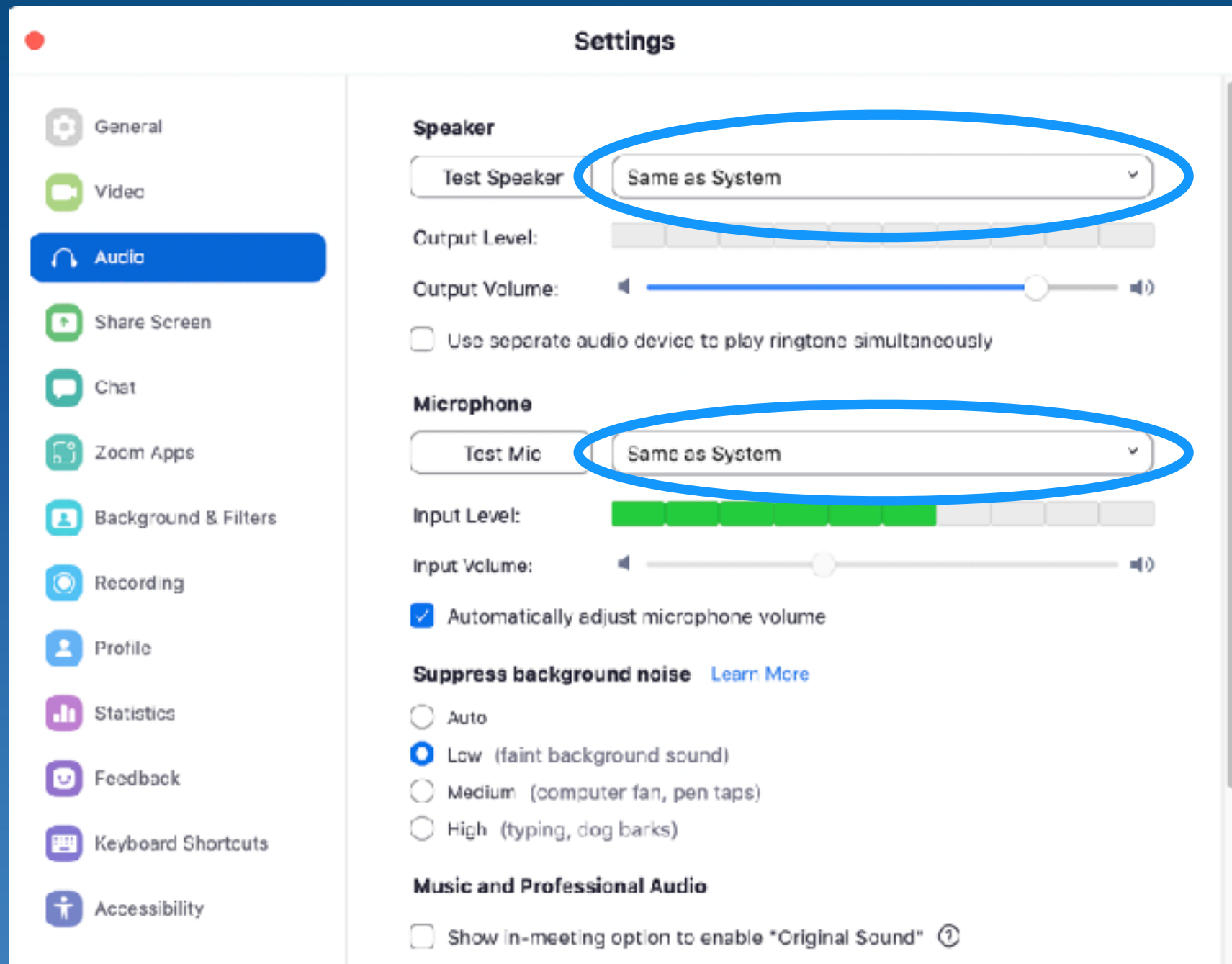


# Video Calls, Webinars, etc.



Look for “Settings” or “Preferences”

# Video Calls, Webinars, etc.



# Choose Speakers and Mic



# Video Calls, Webinars, etc.

- Sit close to your computer or phone
  - Easier to see you
  - Better sound pickup
- Speak in a normal tone, maybe a little bit slower
- Adjust the lighting for clarity (Google “how to light a video call”)
- Be patient with technical problems. If they’re really bad, just hang up and re-connect

## Basic Tips for Better Video Calls

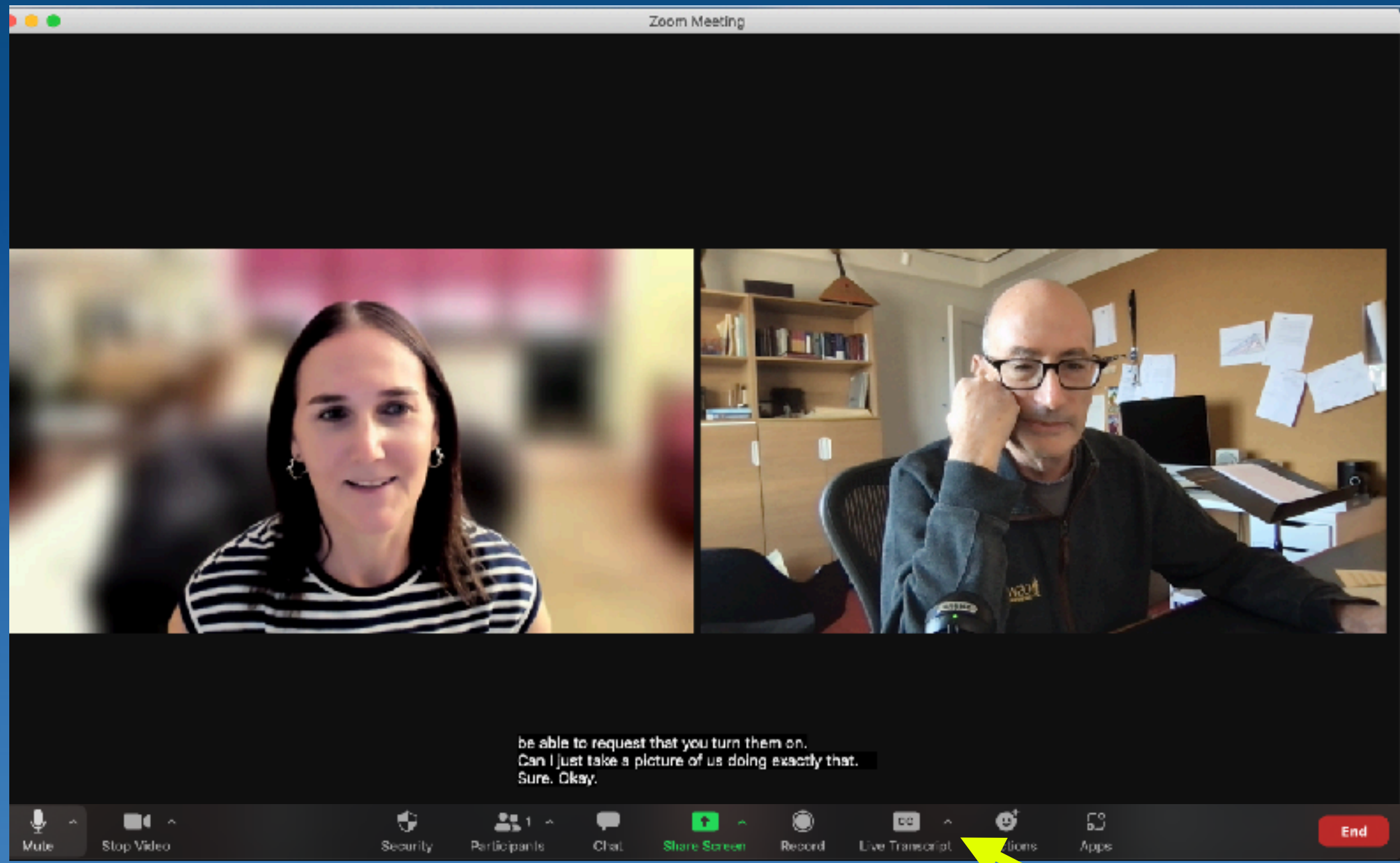
# Video Calls, Webinars, etc.

- Use a headset with a boom mic
  - And ask your family/friends to use one (they make nice gifts!)
- Blur the background
- Use SonicCloud for Zoom
- At least one hearing aid works with a computer
- Use a remote mic like the Resound Mini-Mic
- Use an Ethernet cable — more reliable than Wi-Fi

## Advanced Tips

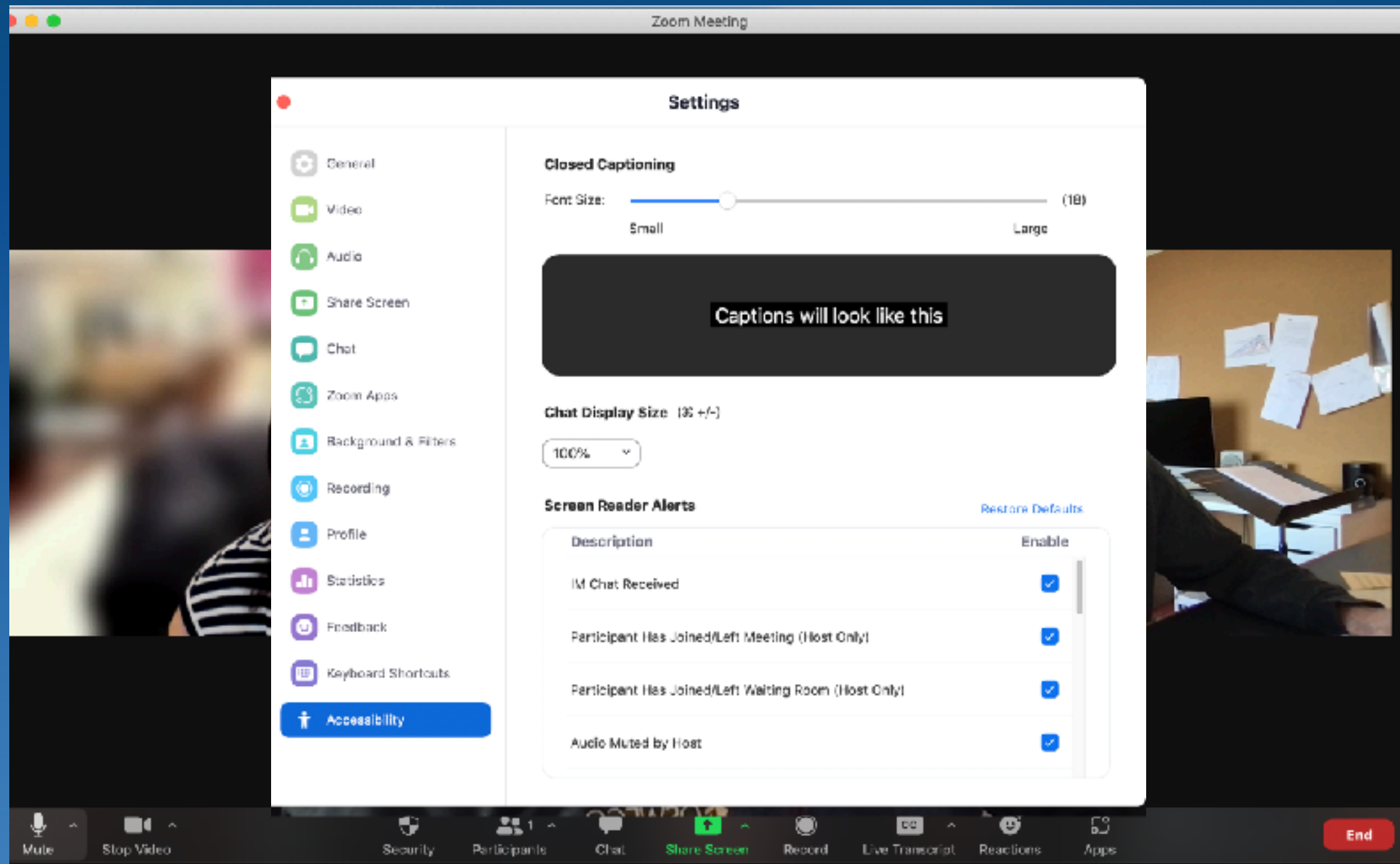


# Video Calls, Webinars, etc.



Captions

# Video Calls, Webinars, etc.



# Captions



# Video Calls, Webinars, etc.

To set up Zoom Captions

Zoom: Enabling or disabling closed captioning and live transcription

<https://support.zoom.us/hc/en-us/articles/4409683389709-Enabling-or-disabling-closed-captioning-and-live-transcription-services>

Zoom: Managing closed captioning and live transcription services

<https://support.zoom.us/hc/en-us/articles/207279736-Managing-closed-captioning-and-live-transcription>

# Captions

# TV





# TV



# Soundbar



# TV



## Dialogue-enhancing Soundbar

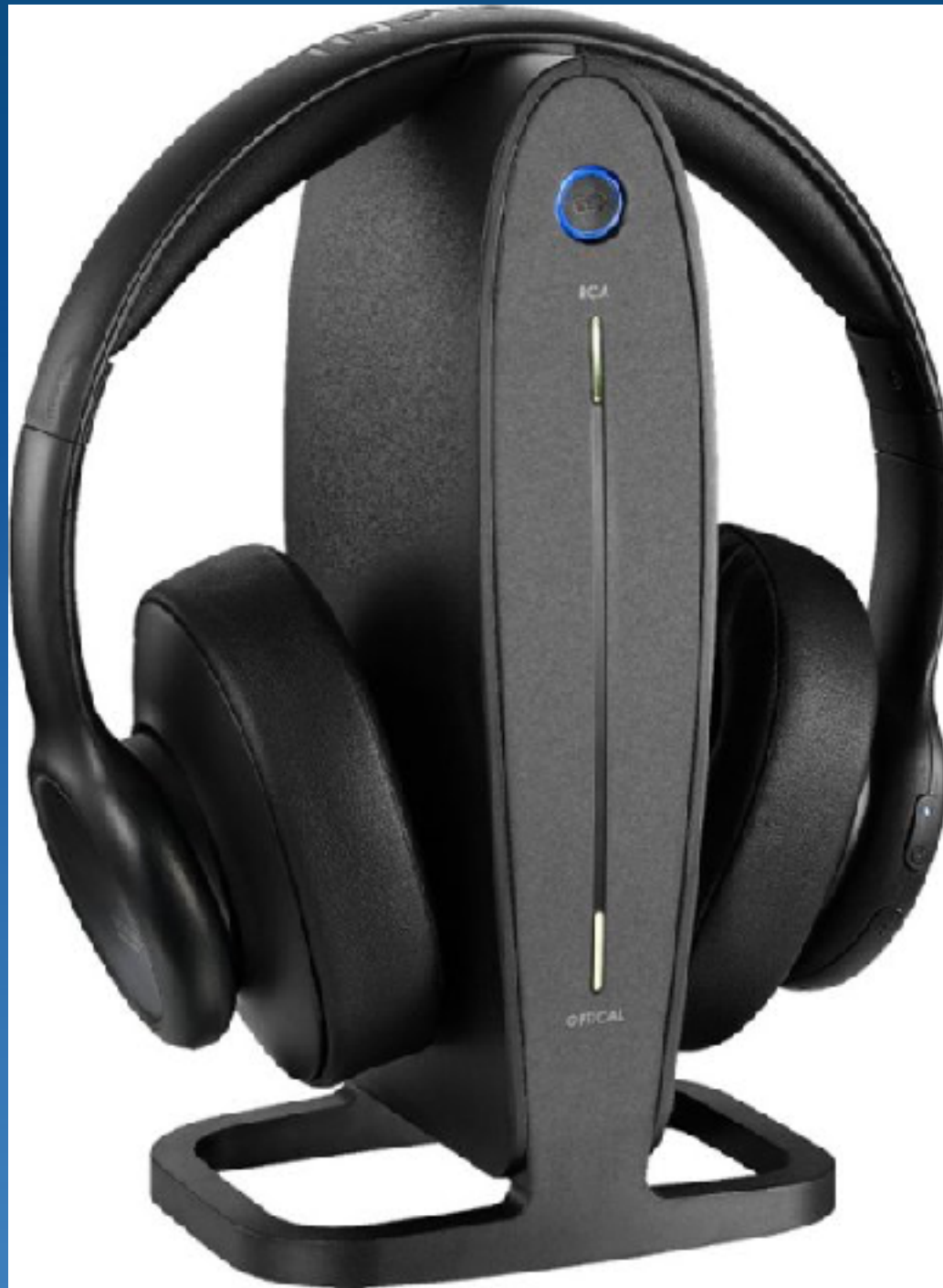


# TV



# TV Adapters

# TV



# Wireless Headphones



# TV



Telecoil required

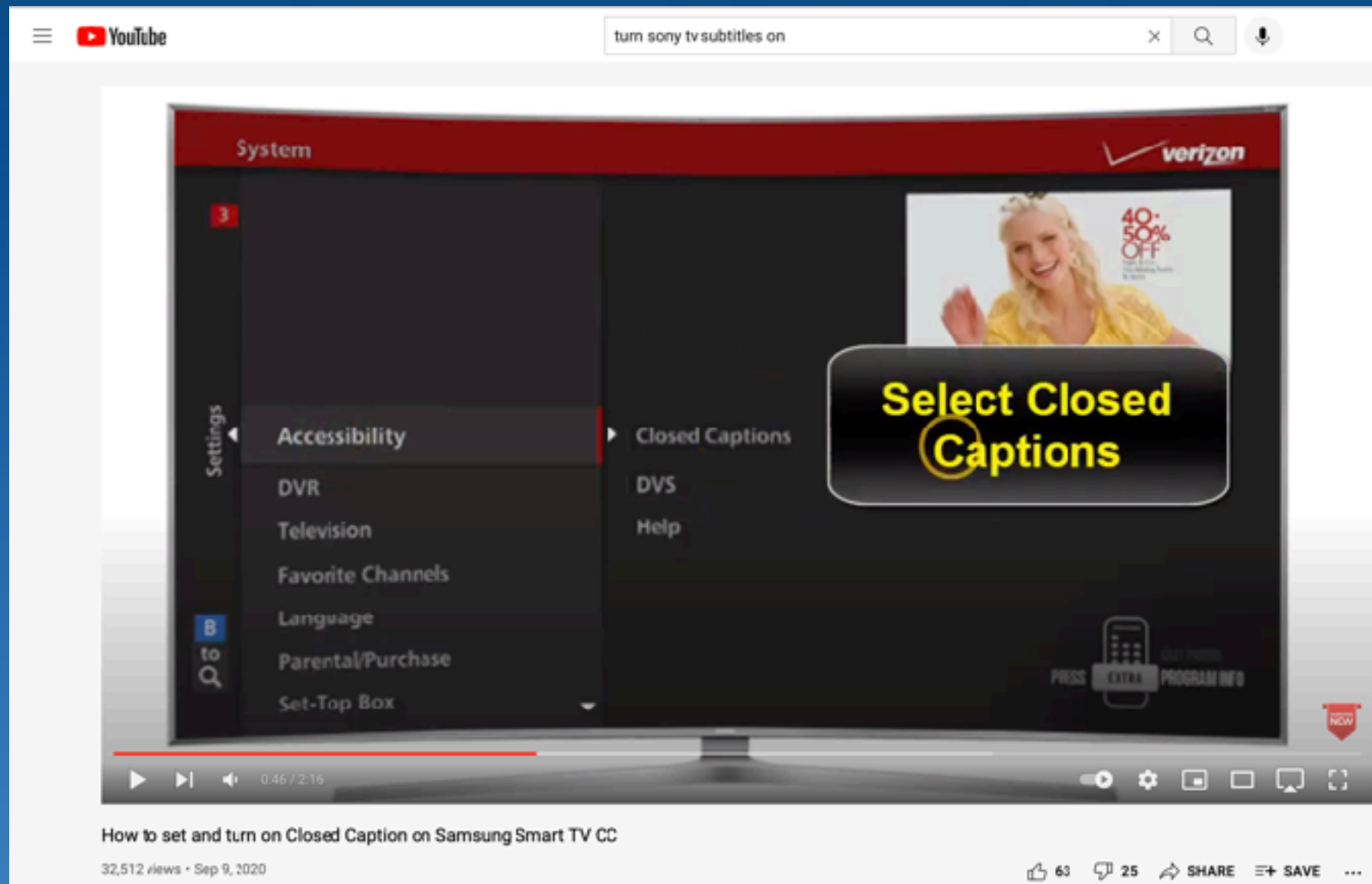


# Personal Hearing Loop

# TV

Every TV System is different

YouTube is Your Friend



# Captions

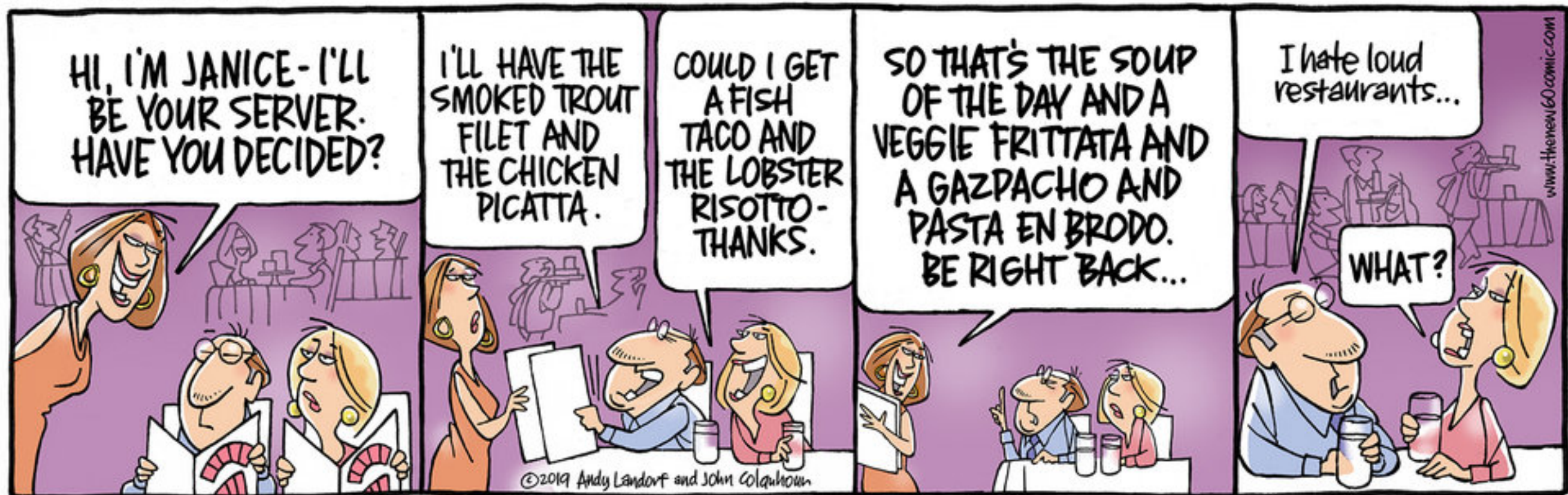


# Restaurants





# Restaurants






# Restaurants



# Hearing Aid/CI Presets

# Restaurants

A close-up photograph of a person's hand, wearing a dark blue long-sleeved shirt, holding a red pen. The hand is positioned over a blue surface, possibly a table or desk. The background is blurred, showing a light-colored wall and a wooden chair.

Made for your devices  
Has advanced processing  
Can be finicky  
Expensive  
One more thing to lose

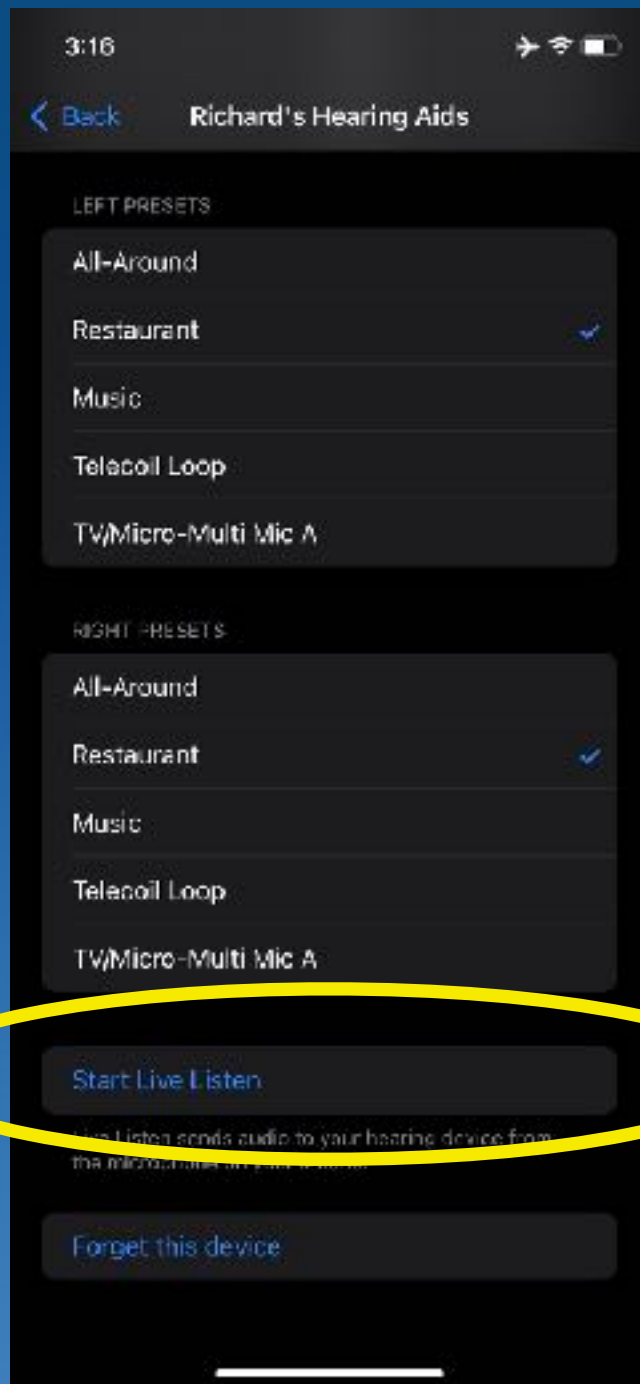
Remote Mic from HA Companies



# Restaurants

Settings > Accessibility > Hearing  
Devices > Your Hearing Device,  
then scroll to Live Listen

Tip: It is often helpful to mute  
your live microphones



# Live Listen (iOS)

# Restaurants

Phonak and  
Unitron not  
compatible



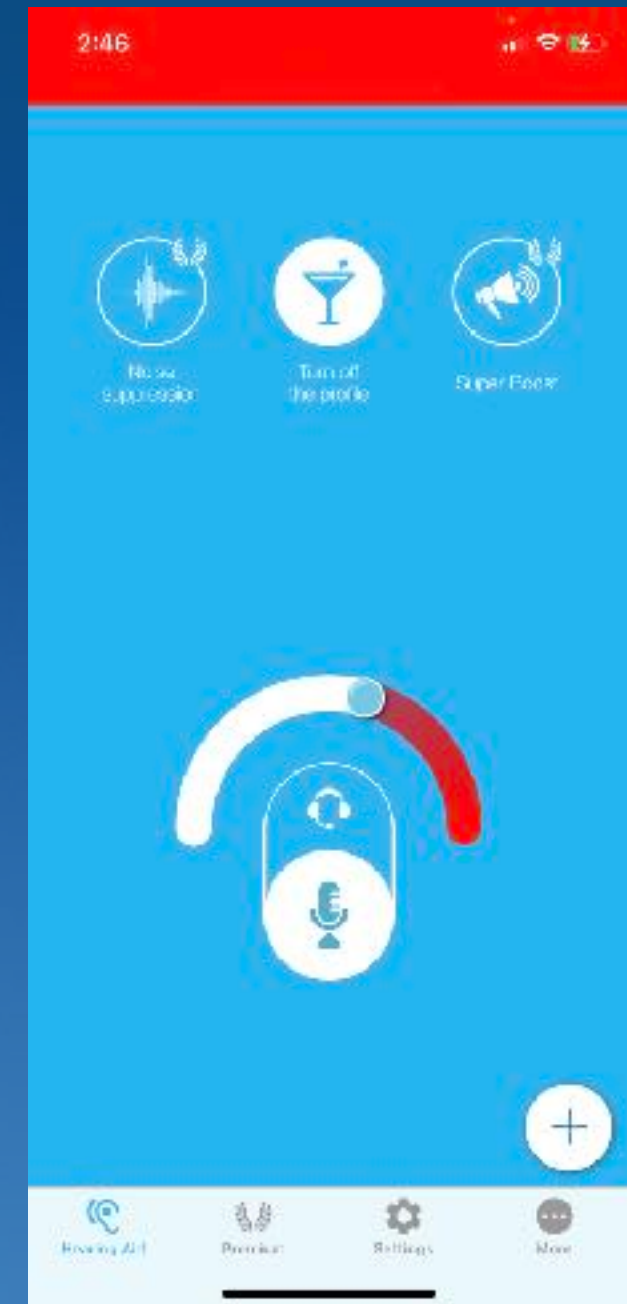
Noopl (iOS, Android coming)



# Restaurants



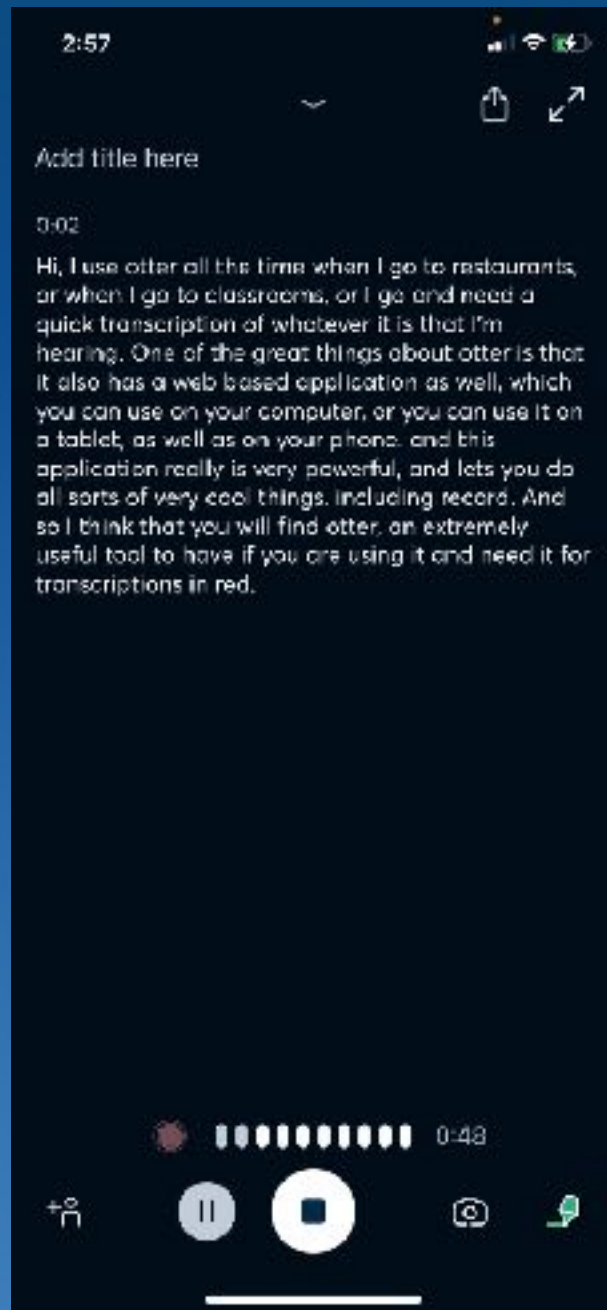
Chatable



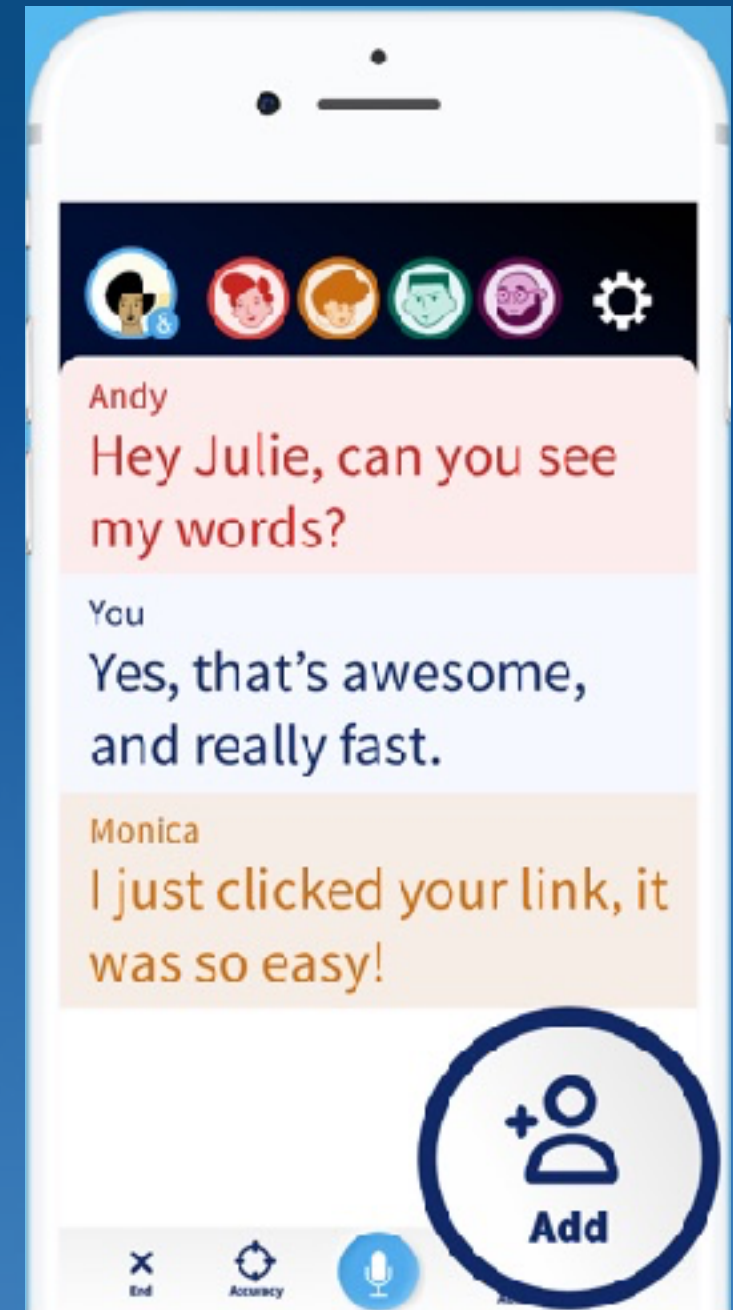
Petralelex

# Apps

# Restaurants



Otter



Ava

# Speech to Text



# Restaurants



Wireless Keyboard/Tablet

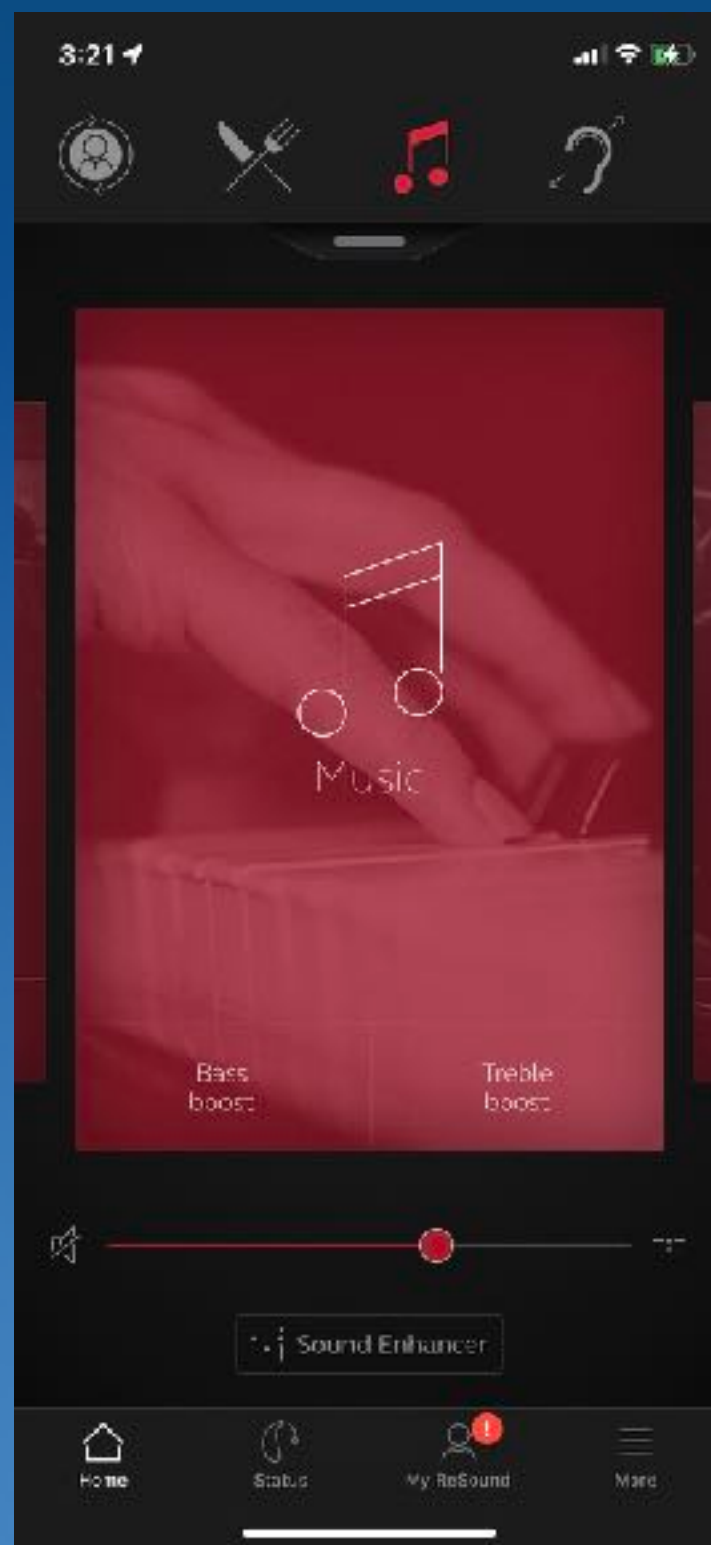
# Music Listening





# Music Listening

Music Program  
on your ha/ci



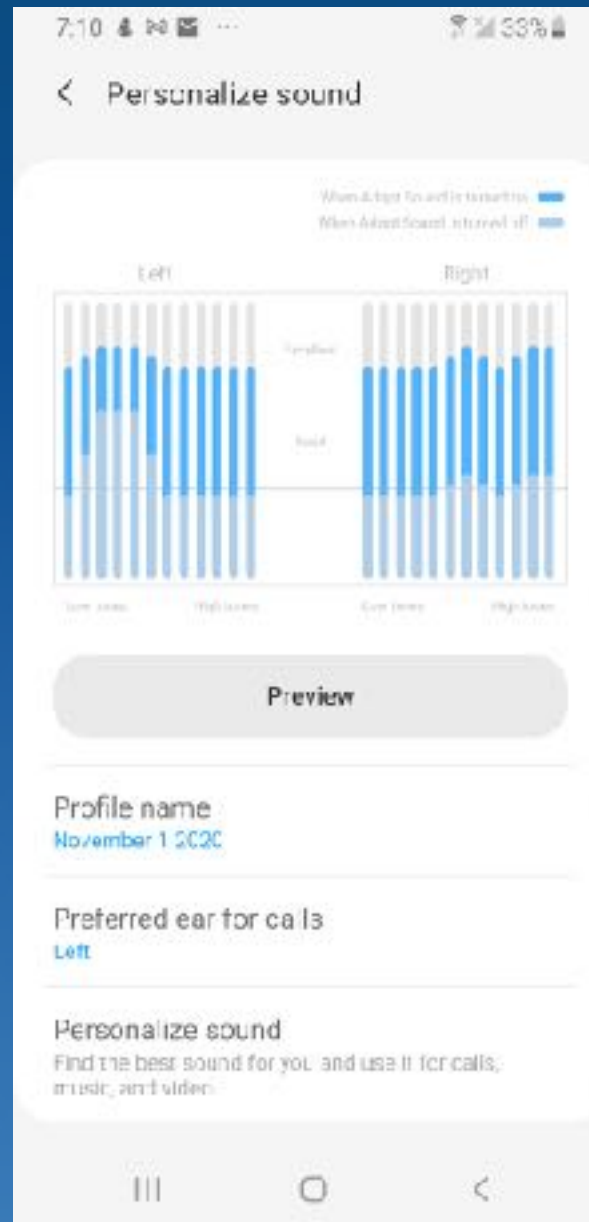
# Music Listening



For amplified music, wear  
musicians' earplugs

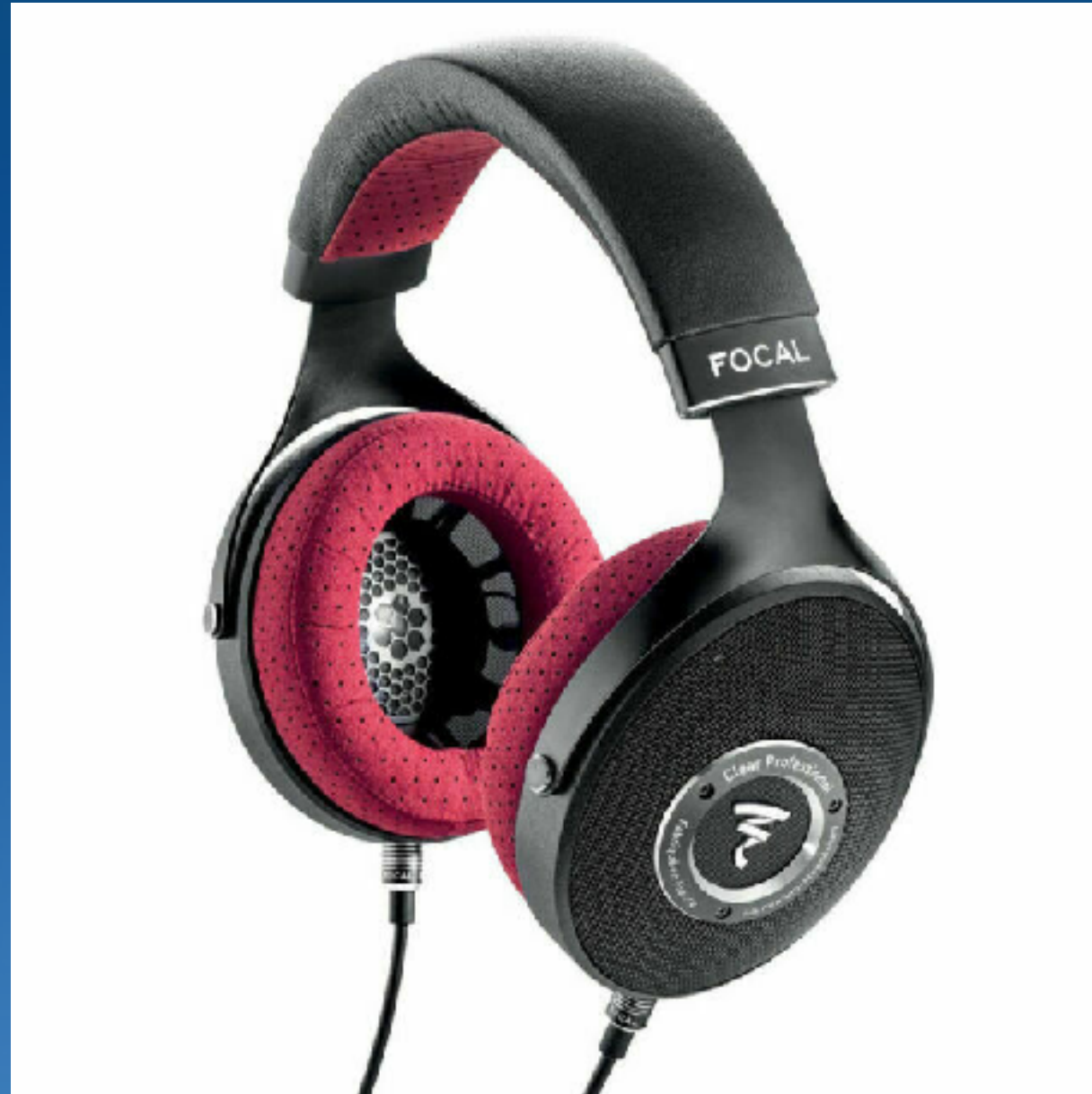


# Music Listening



Listening personalization settings  
on smartphone

# Music Listening



# Good Headphones

# Music Listening



## Familiar Music



# Music Listening



Some recordings are easier to hear

# Music Performing





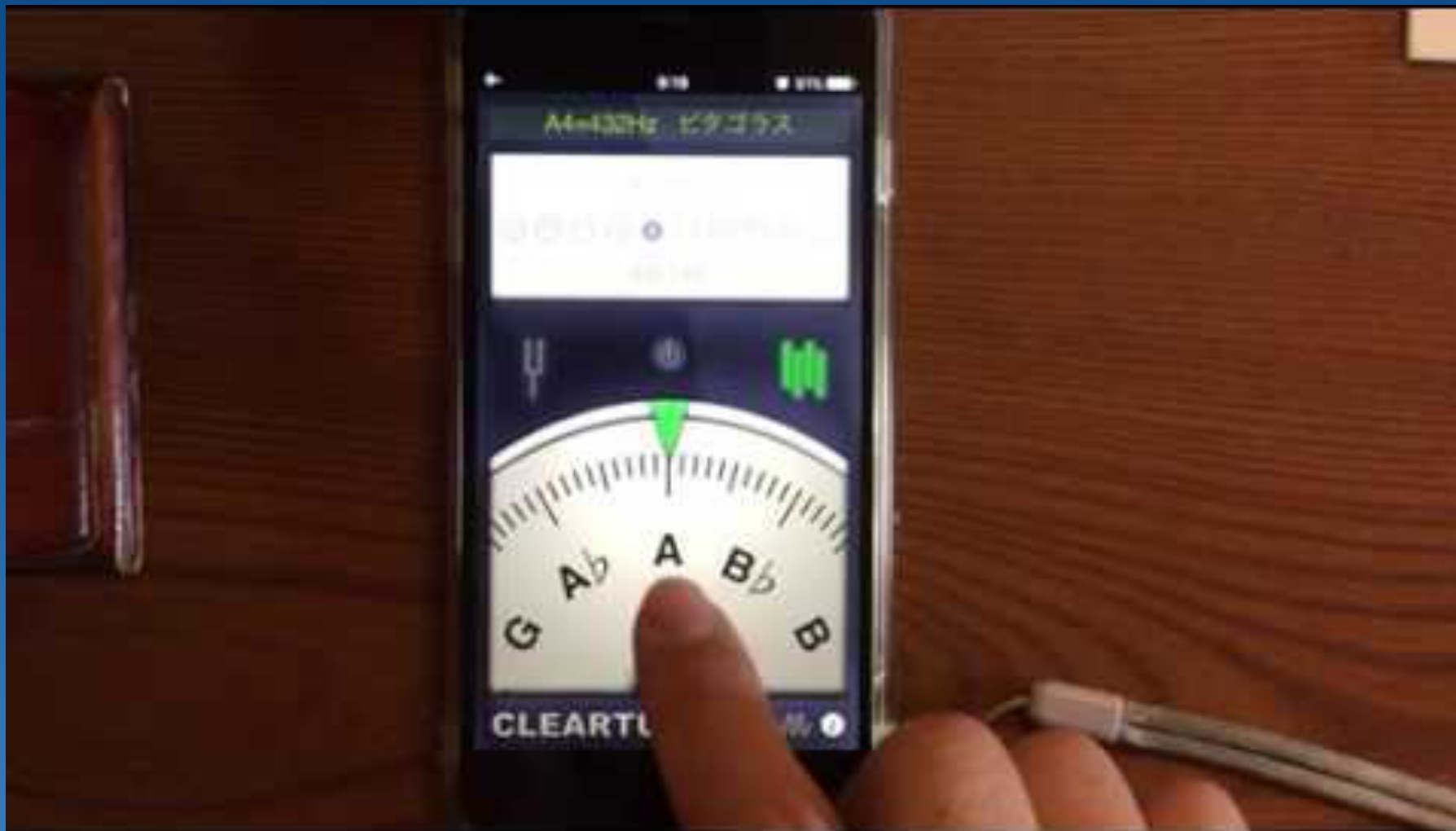
# Music Performing

Music program





# Music Performing



Tuning app

# Music Performing



Custom in-ear monitors

# Music Performing



Learn percussion?



# In Conclusion

- Before buying anything new, make sure you know the tech you already have
- Don't carry around too much (smartphones may suffice)
- Experiment and practice
- Read the instructions/manual!
- Don't get frustrated/intimidated

# Thank you!



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