Making your Zoom sessions more inclusive and accessible

Korey Singleton, ATI Manager George Mason University

AHEAD 2021 Spring Colloquium March 20, 2021

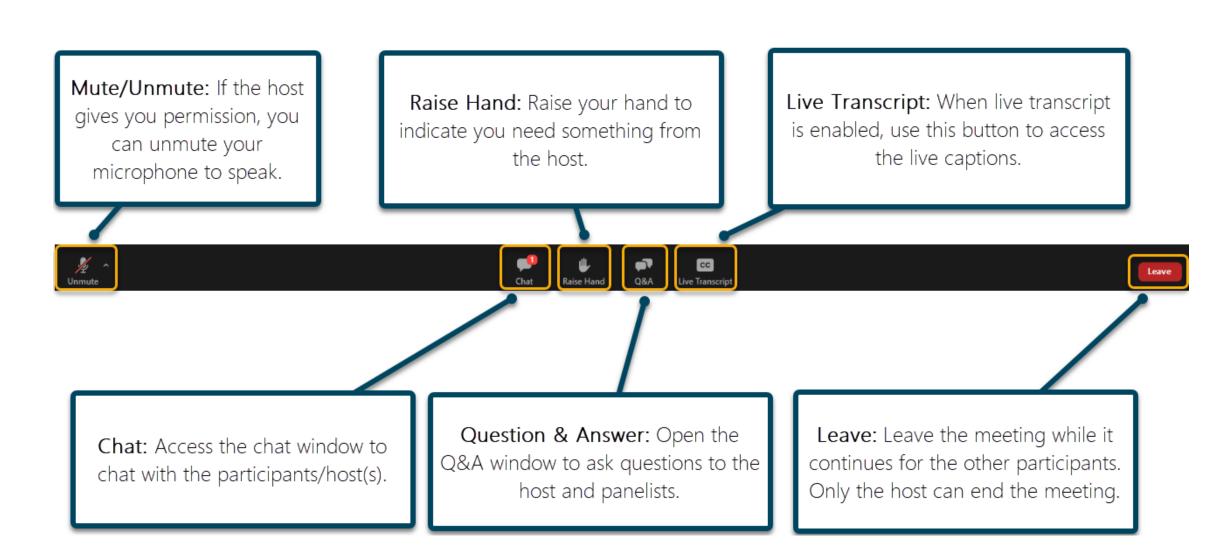
Today's Speaker

Korey Singleton, Ph.D. ATP RET Assistive Technology Initiative Mgr. George Mason University





Attendee Tools

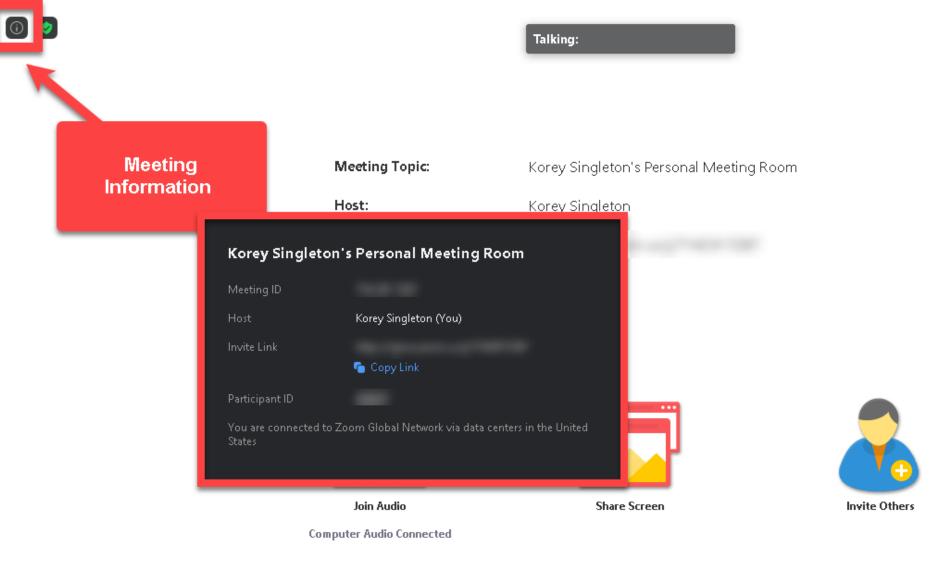


Today's Agenda

- Introductions
- Basic Overview of Zoom platform
- Built-In accessibility features
- Sharing considerations during Zoom sessions (whiteboard, documents, hyperlinks, screen-sharing, etc.)
- Live Captioning Options
- Post-Production Options
- Q& A

Zoom: Basic Overview

Platform overview (Host/Co-host)



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Participants

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Polls

Chat

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Security





Live Transcript Breakout Rooms

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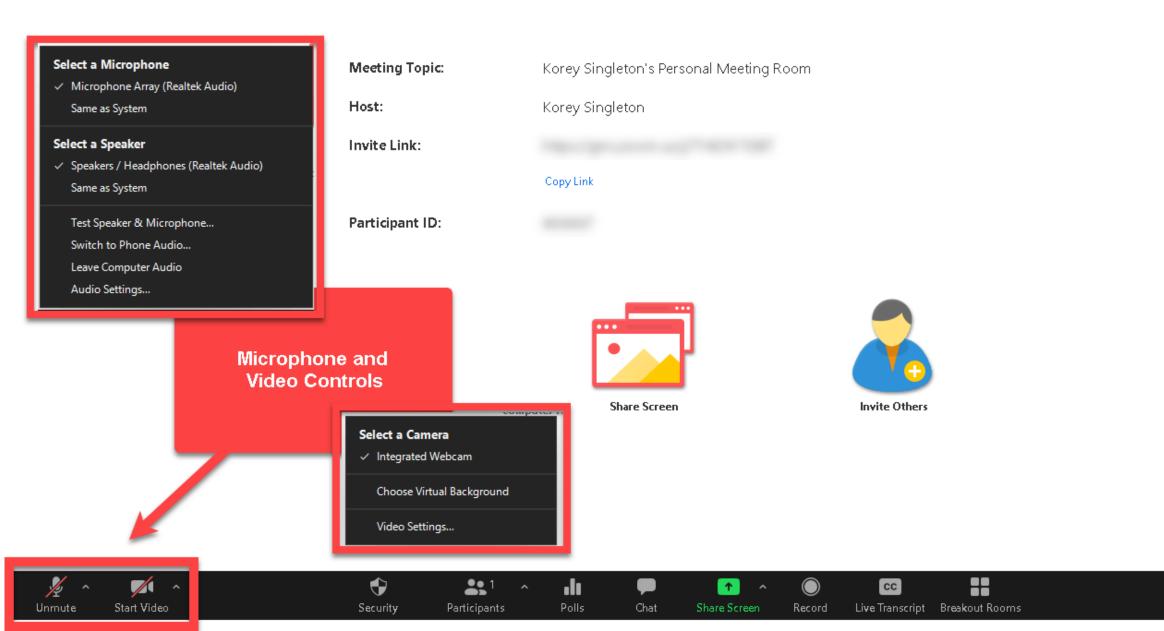
Record

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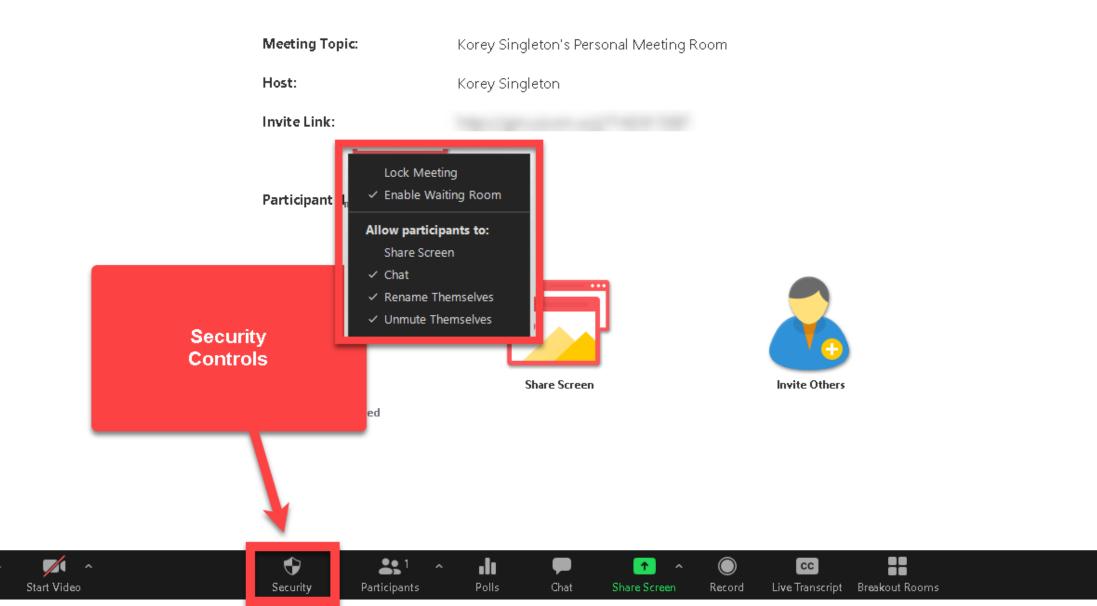
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Unmute

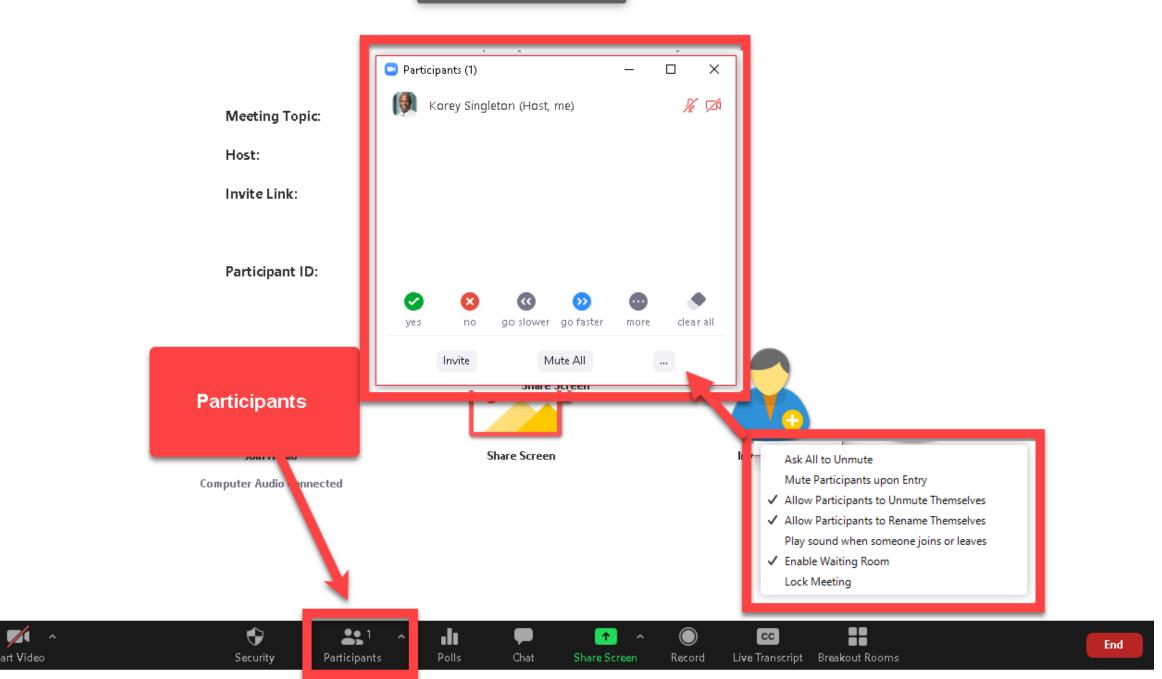


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Unmute

Start Video

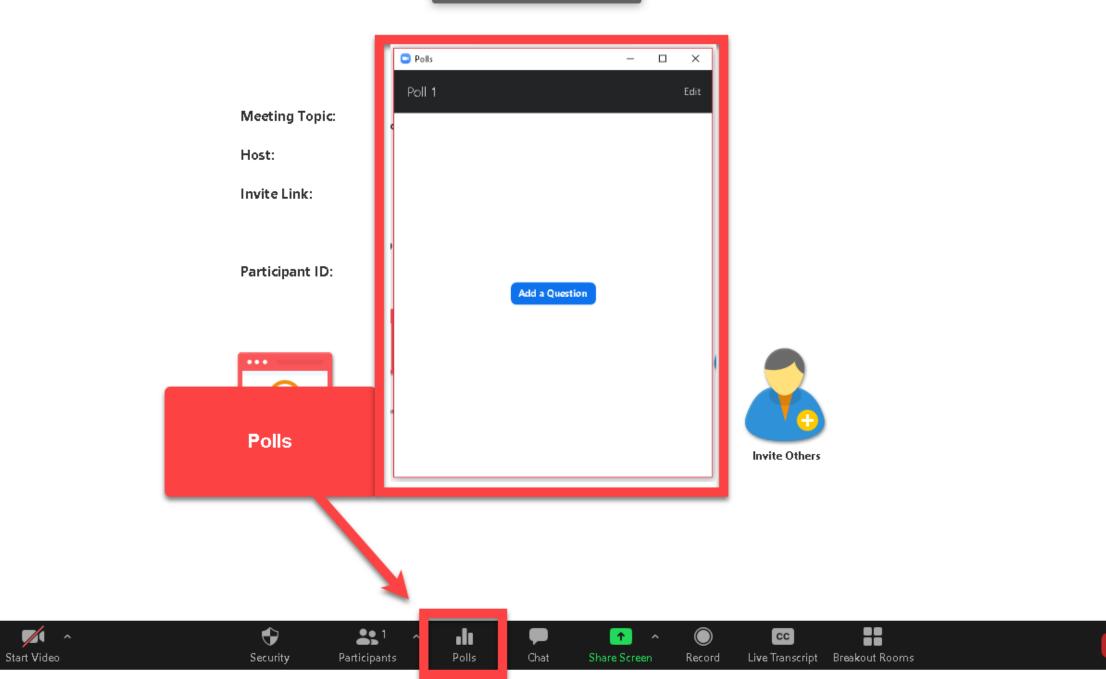


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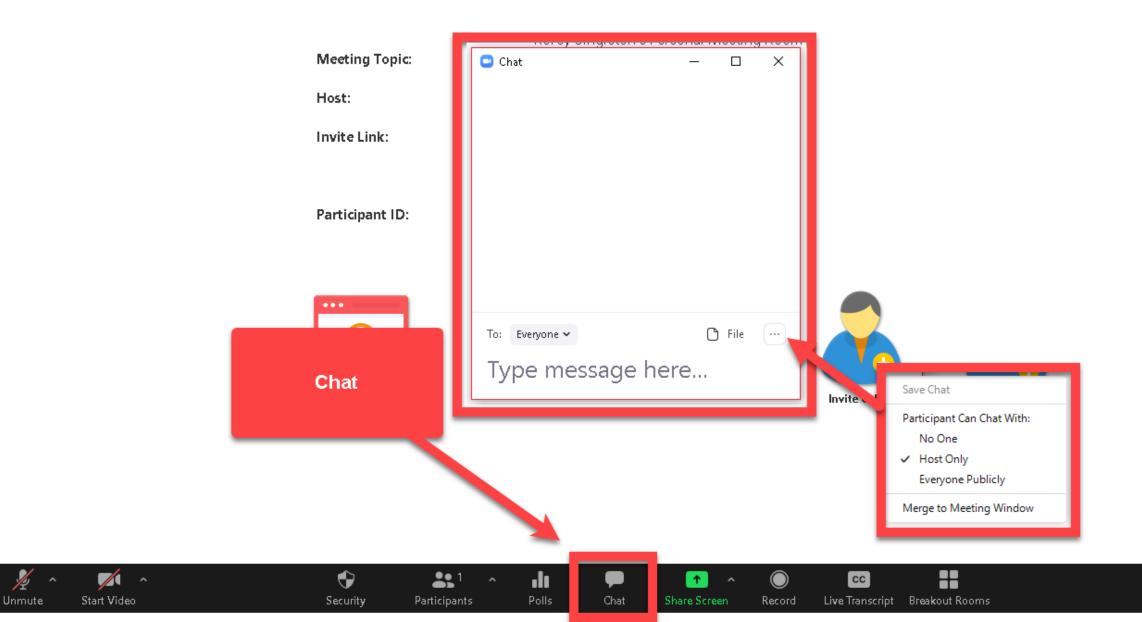
Talking:

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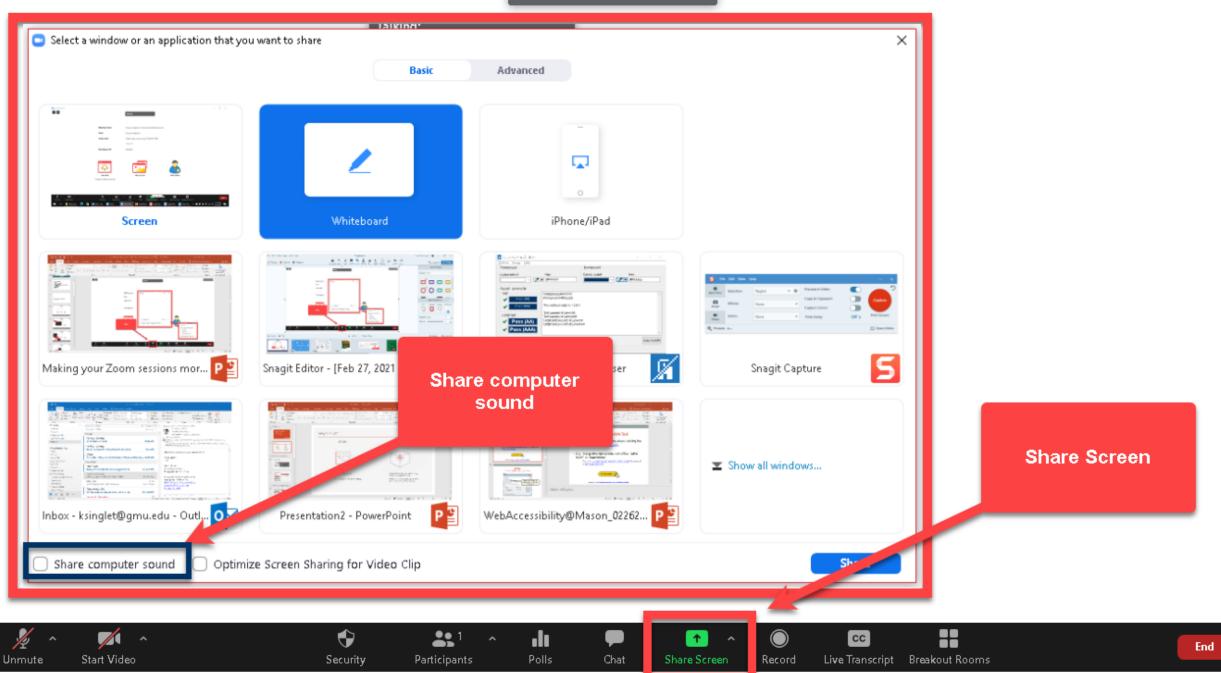
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Talking:

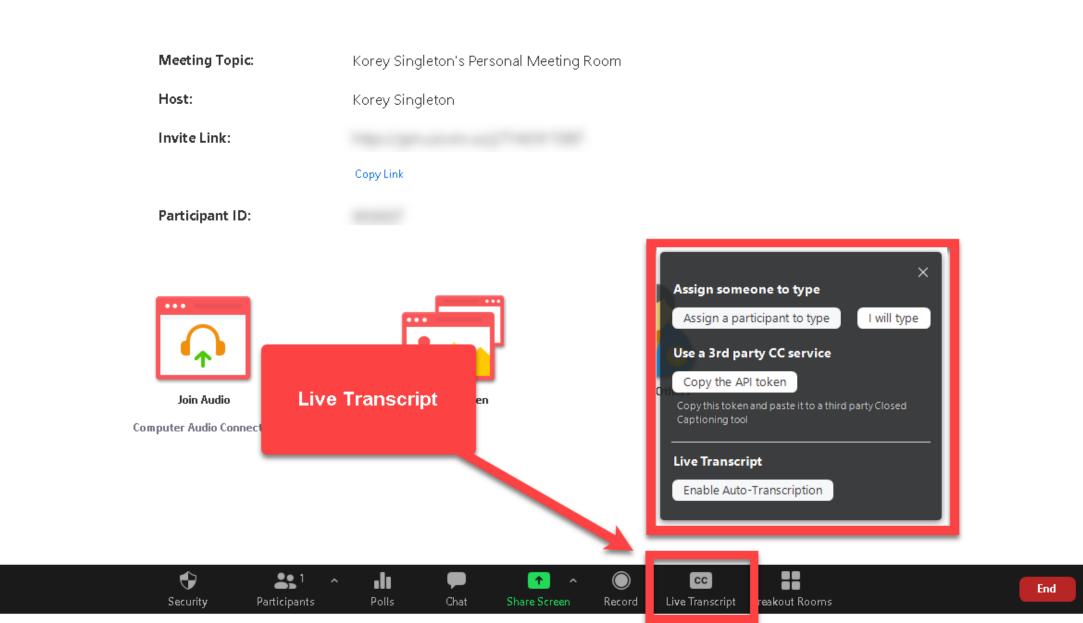


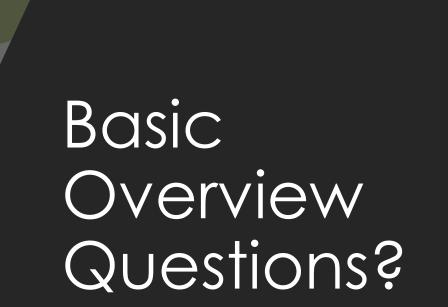
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Start Video

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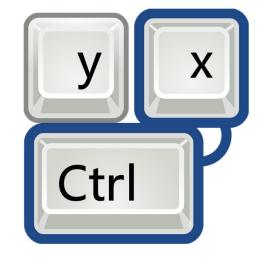


Built-In Accessibility Features

Keyboard Navigation, Chat, Etc.

Keyboard Navigation Support

- Keyboard shortcuts perform a series of preprogrammed actions (e.g., close an application, print a document, etc.)
- Zoom generally accessible to all users, including screen reader and/or keyboard-only users
- A full list of keyboard shortcut keys can be found at: <u>Hot keys</u>



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Keyboard Navigation Support cont.

Basic list of keyboard shortcuts

Some Keyboard Shortcuts for Windows

F6, Navigate among Zoom popup windows.

Alt, Hide/unhide meeting controls

Ctrl + Alt + Shift, Move focus to Zoom's meeting controls

Alt + U, Display/hide Participants panel

Alt + Y, Raise/lower hand

Alt + A, Mute/unmute audio

Alt + V, Start/Stop Video

Alt + H, Display/hide In-Meeting Chat panel

Alt + F, Enter or exit full screen

How do we use this information?

Consider hosting this information...

- Where faculty teaching resources are hosted (e.g., CTFE)
- In LMS with synchronous sessions via Zoom (hybrid, online, and/or F2F)
- Public meetings/events held via Zoom

Screen Reader Alerts

- Benefits screen reader users
- Customizable alerts provide feedback for screen reader users when events happen within Zoom platform (e.g., chat received, document uploaded, etc.)
- Host-only alerts for screen reader users as well (e.g., hand raised/lowered, participant joins/leaves meeting)

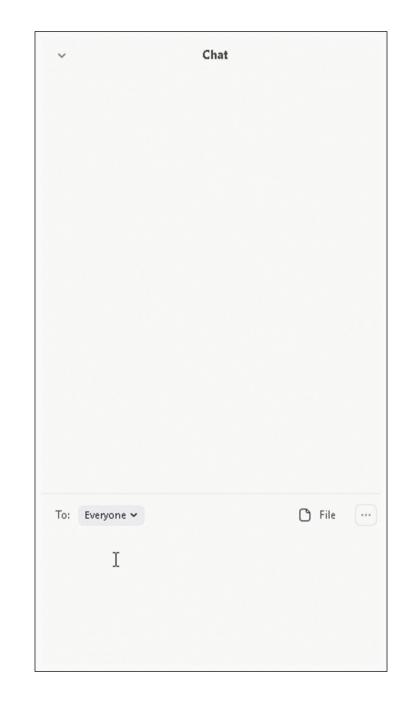
Screen Reader Alerts	Restore Defaults
Description	Enable
IM Chat Received	
Participant Has Joined/Left Meeting (Host Only)	
Participant Has Joined/Left Waiting Room (Host Only)	
Audio Muted by Host	

Adjusting the Chat Window

Chat Display Size (up to 200%)

Benefit to users who struggle with low vision

Keyboard Shortcut: Ctrl/Cmd +, Increases font size Ctrl/Cmd -, Decreases font size

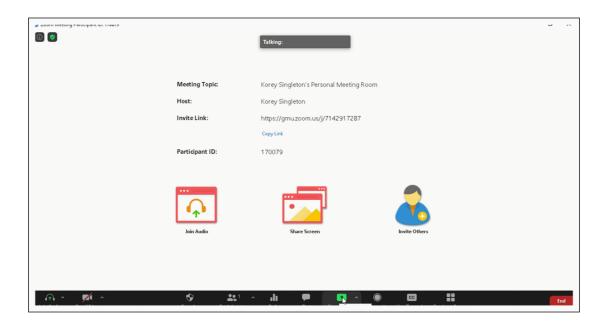


"Sharing" considerations during Zoom Sessions

Whiteboard, screen-sharing, polling

Limit use of Whiteboards

- Host and attendees (if allowed) can annotate on a shared space.
- Challenges:
 - Content shared on the whiteboard is inaccessible to screen-reader users.
 - Screen-reader users, keyboard-only users, and those calling in (i.e., ability to annotate) can not participate
 - Output only as an image.
- Workarounds:
 - Accurately describe what you are doing
 - Whenever possible, provide content in alternative formats (e.g., step-by-step instructions)
 - Record activity and share



Other Screen-Sharing Considerations

- We all know the benefits of screen-sharing!
- Challenges:
 - Inaccessible to screen-reader users and those calling in
 - Can be difficult to follow for those with learning/cognitive challenges (e.g., step-by-step instructions, math, etc.)
- Workarounds:
 - Accurately describe what you are doing
 - Whenever possible, provide content in alternative formats (e.g., step-by-step instructions)
 - Record activity and share
 - IMPORTANT: When streaming video, be sure to share computer sound



Image taken from https://tinyurl.com/yryj649n

Using Polls

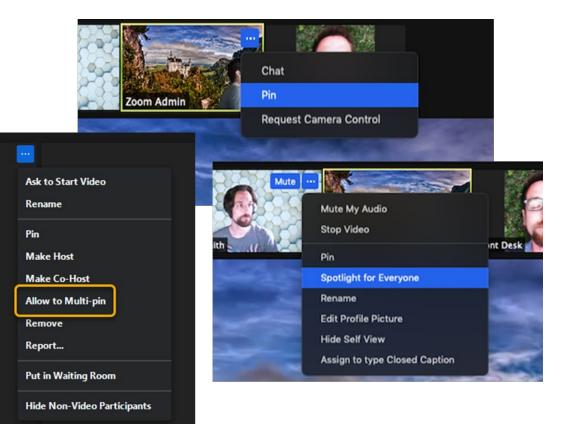
- Use polls to increase engagement/interactivity during your sessions
- Polls can be added before or during sessions
 - Only hosts can create new polls
 - Hosts and co-hosts can launch polls
- Zoom polls are simple (i.e., no graphics) and generally accessible
- Challenges:
 - Inaccessible to those calling into the session
- Workarounds:
 - Read questions and results aloud
 - Give audience time to complete polls
 - Allow entries in chat

Poll 1: Ice Cream Poll	🗸 🖌 Edit	Ice Cream Poll in Progres	s 00:00:3
1. Do you like ice cream?		Attendees are now viewing question	ns 2 of 2 (100%) vot
n bo you nike nee cream.		1. Do you like ice cream?	
⊖ Yes		Yes	(2) 100
O No		No	(0) 09
2. What is your favorite ice cream flavor?		2. What is your favorite ice crea	am flavor?
Chocolate		Chocolate	(0) 09
🔿 Vanilla		Vanilla	(1) 504
Black Raspberry		Black Raspberry	(1) 504
Other		Other	(0) 09
Launch Poll		End Pol	

Image taken from <u>shorturl.at/actN5</u>

Pin Multiple Video Streams

- *Multi-pin* allows participants to pin multiple video streams at once during a Zoom session
- By default, Zoom participants can only pin 1 video stream. The host, however, can override this setting enabling *Multi-pin* for that user. The host can also <u>spotlight videos</u> for everyone to see. See <u>Pinning participant's</u> <u>videos</u> for more details.
- Why is this useful?
 - Support for Deaf/Hoh students.
 - Typically, sessions that last longer than one hour require 2 interpreters. This allows the student to pin the streams of both interpreters as well as the speaker



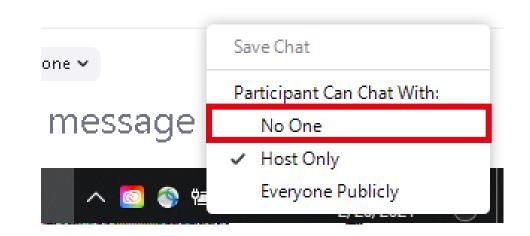


Managing Chat Discussions

Basic strategies, documents, URLs

Strategy #1 – Avoid using Chat

- In the **Chat** window, click *More (...)* to change chat settings.
 - Turn off chat to eliminate all chat
 - Host Only -- private communication between host and attendees
 - Everyone Publicly allows open chat with host and other attendees -- no private communication



Strategy #2 – Schedule Q&A/Breaks

- Build breaks/Q&A into your lectures (e.g., break between sections or every few slides)
 - Gives students time to ask questions when material is presented as opposed to at the end of the session
 - Manages expectations -- students know when to ask questions
 - Better gauge of comprehension/engagement



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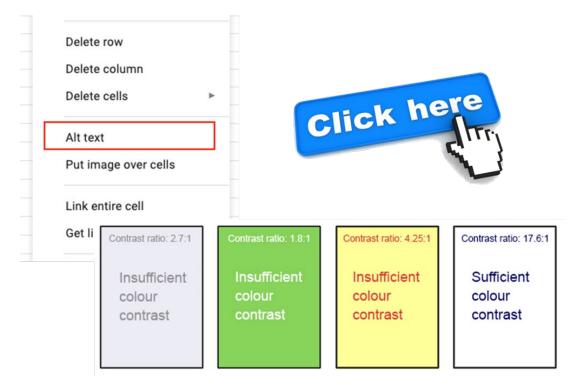
Strategy #3 – Enlist a Helper

- Use a GTA or student from class to monitor the chat for questions.
- Empower them to chime in whenever questions are asked or during the break sessions
 - This is especially helpful during screen sharing
- Can post documents/links/re-state information in the chat



Make sure documents are accessible (i.e., Chat)

- Documents (Word, PPT, PDF) uploaded or shared via Chat should be accessible:
 - Use Headings
 - Alt text for complex images
 - Meaningful hyperlink text
 - Sans Serif fonts
 - Good color contrast
 - Tables with headers
 - Avoid merged or split cells in tables
- Step-by-step guidance coming in trainings later this month/early next



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Use Shortened URLs (i.e., Chat)

- Avoid posting long URLs (e.g., https://suicidepreventionlifeline.org/help-yourself/fordeaf-hard-of-hearing/) in the Chat
- Shortened URLs are more user-friendly (<u>https://tinyurl.com/sh646e7u</u>)

http://loooooooong.url

http://short.url

Image taken from <u>shorturl.at/actN5</u>

 Resources for creating free, shortened URLs (<u>Bitly</u>, <u>TinyURL</u>, <u>ShortURL</u>)



Managing Chat Questions?

Live Captioning Options

Automated, Assign a person, 3rd-party (i.e., Verbit), Post-Production Captions

Automated Live Transcription, (Cloud)

- 1. Sign into your account through the Zoom web portal
- 2. Under Settings/In Meeting (Advanced)
- 3. Make sure Closed Captioning is turned on.
- 4. Then check box to Enable live transcription...





Allow host to type closed captions or assign a participant/third party device to add closed captions

Enable live transcription service to show transcript on the side panel inmeeting

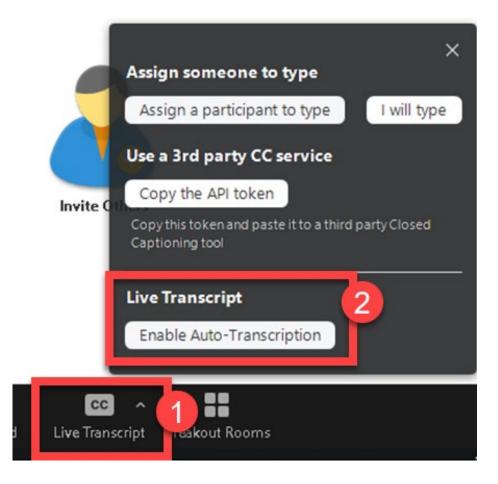
Automated Live Transcription (In Session)

Instructions

- 1. Host clicks on *Live Transcript* button
- 2. Click *Enable Auto-Transcription* to turn on Live Al captions

Notable features

- Released Jan 2021
- Powered by <u>Otter.ai</u> (ASR-only)
- 3 lines of transcription (< 32 char per line)
- Drawback(s): English only, no breakout room support, must be initiated by host



Adjust Caption Size

Instructions

- 1. With captions on, click arrow on topright of the *Live Transcript* button
- 2. Click Subtitle Settings...
- 3. Under **Closed Caption**, use the slider to adjust the size of the captions.

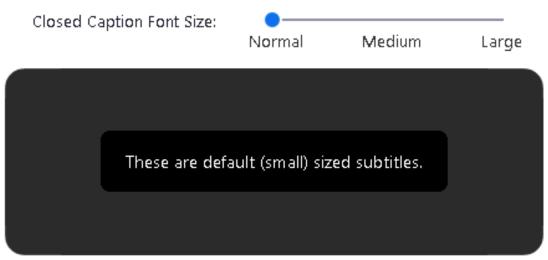
Notable Features

- Small, Medium, Large
- Drawback(s): Captions limited in terms of placement of captions (e.g., bottom, sides, top – full transcript window can be floated, however)





Closed Caption



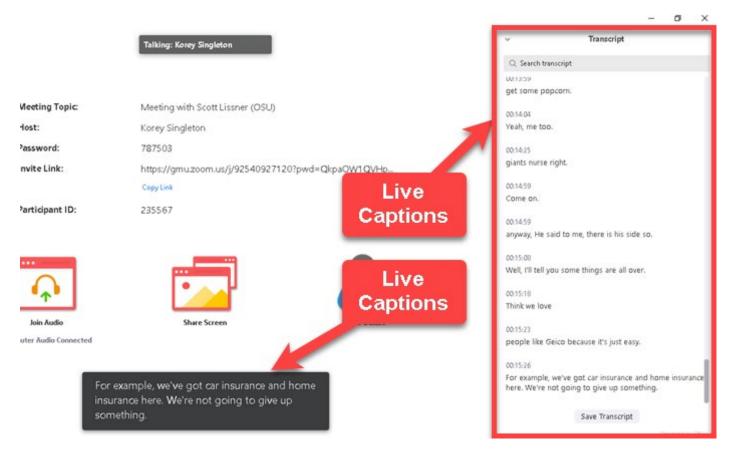
Full Transcript

Instructions

- 1. With captions on, click arrow on top-right of the *Live Transcript* button
- 2. Click View Full Transcript

Notable Features

- Transcript is searchable and timestamped
- Speaker identification (*only available in Full Transcript*)
- Attendees can save the transcript
- Available on mobile devices (not searchable on mobile)



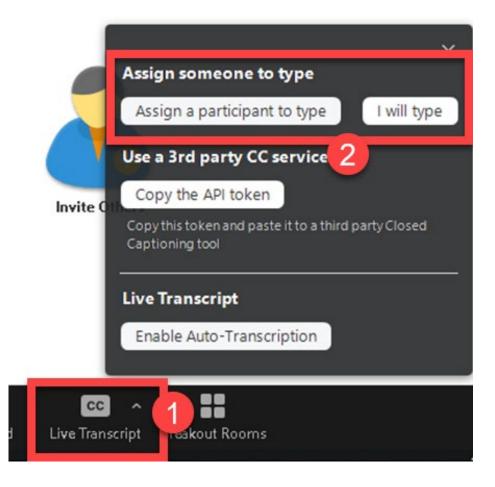
Assigning a Person for CC (In Session)

Instructions

- 1. Host clicks on *Live Transcript* button
- 2. Click *Assign a participant to type* or select *I will type* to have someone in session provide the captions.

Notable Features

- Host can assign CC privileges to anyone participating in the session
- **Drawback(s):** Rarely practical, platform does not always integrate with captioner's software



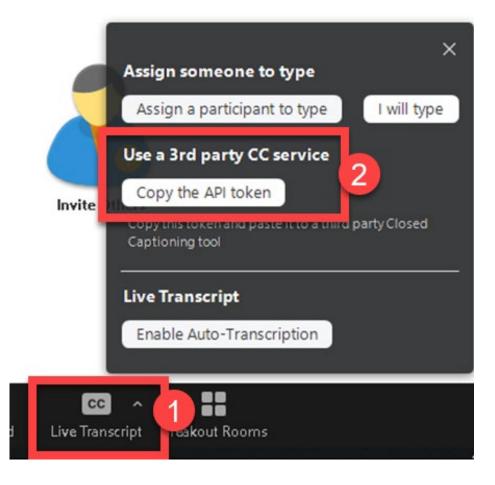
Integrating 3rd-party CC (In Session)

Instructions

- In a Zoom meeting, click Live Transcript.
- Click Copy the API token.
- API token needs to be shared with live captioning vendor (process likely to differ from one vendor to the next)

Notable Features

- Human transcription
- Typically, more accurate than ASR-only
- Drawback(s): Costs, coordination of services



Live Transcription (CC) and Breakout Rooms

- Keep in mind, live transcription (ASRonly) <u>NOT</u> available in breakout rooms. Only available in main room
- Workarounds: 3rd-party captions available in separate window, Use separate Zoom sessions to host breakouts

Create Breakout Rooms	×
Create 1 🗧 breakout room	าร
 Assign automatically 	
O Assign manually	
 Let participants choose room 	
1 participants per room	e



Live Transcription Questions?

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Post-Production Captioning and Transcription Options

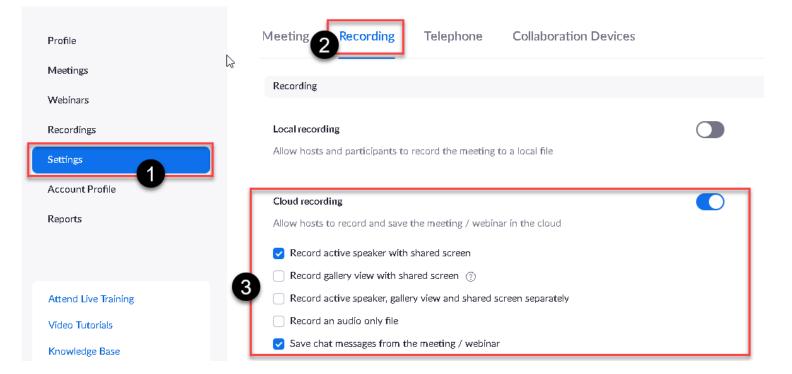
Recordings, Transcripts, and Captions

Recording Options

- Local Storage (Off by default)
- Cloud-based Options
 - Record active speaker with shared screen (MP4)
 - Record gallery view with shared screen (MP4)
 - Record active view and gallery view with shared screen, separately
 - Record an audio-only file (MP3)
 - Save chat messages from the meeting/webinar (TXT)
- For downloading or accessing multiple video layouts please see Zoom's explanation/documentation: <u>http://bit.ly/zoomrecoptions</u>

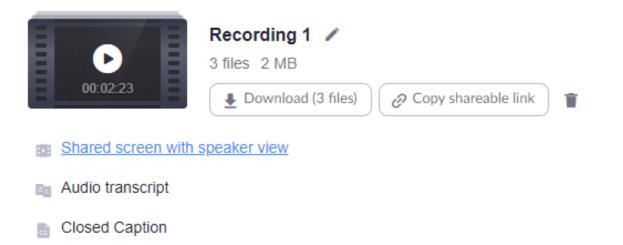
Recording Settings (Cloud)

- Sign into your account through the Zoom web portal
- 2. Under Settings/*Recording* tab
- 3. Under Cloud recording options...



Accessing captions/transcripts (GMU Default Settings)

- Once recorded, host will be emailed two links:
 - Link to files (downloaded as .zip or individually)
 - Recorded video of session (.mp4)
 - Audio transcript of the cloud recording (.*vtt*)
 - Closed caption transcript (.vtt)
 - Link to *shared screen with speaker view* (to be shared with viewers)



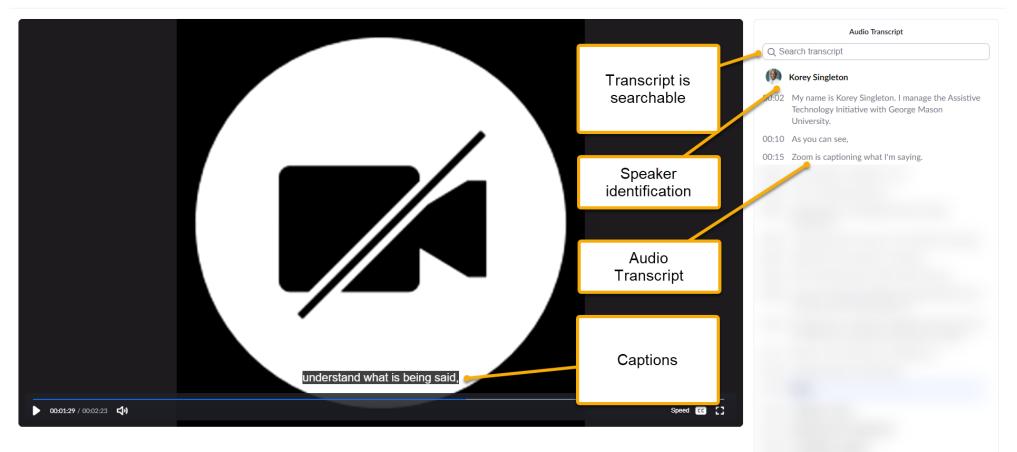
Transcript and Captions files

- Difference between *audio transcript* and *closed caption* file?
 - Closed caption file <u>does not</u> include speaker identification
 - Audio transcript *includes* speaker identification
- Both files available as VTT files
- What if I need another file format like SRT?
 - Use free online converters like *gotranscript.com* (<u>https://gotranscript.com/subtitle-converter</u>)
 - Some video hosting platforms will only support SRT, VTT, SCC, etc. file formats for captions. Check the platform you plan to use.
 - GMU uses Kaltura, which accepts both SRT and VTT for captions file formats

Shared Screen with Speaker View (Participant)

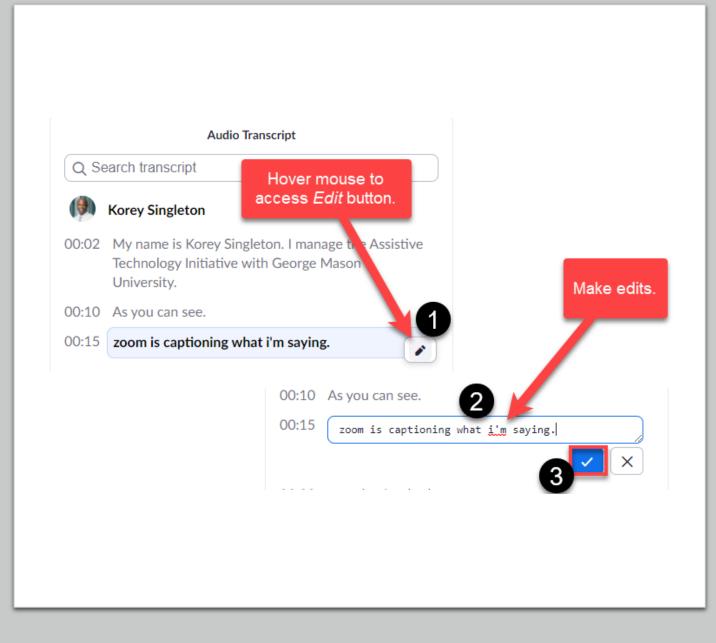
zoom





Shared Screen with Speaker View (Host)

- Looks exactly like Participant's View.
- Transcript can be edited.
 Changes automatically fixed in Participant's View.
- Note: Downloadable transcripts will not be updated when fixed in this view. Only the shared screen views are updated.



Post-production captions and transcripts Questions?

Questions?

Thank You