



Engaging your Learner with Video in the Classroom

Zoom Best Practices and Tips

Introduction:

Zoom is an easy to use video conferencing program that allows for multiple participants, audio and video sharing, screen sharing, working on a whiteboard and recording. During our workshop we will be discussing how you can use Zoom for video conferencing, but also how you can think outside the box and use Zoom for developing screencasts and video supplements for your courses.

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Zoom Uses, Tips and Best Practices

Ideas for Using Zoom in Your Synchronous Course

- Bring students at multiple home locations, classroom sites or field sites together via video/audio conferencing
- Invite guest lecturers to your courses for interviews, presentations and conversations. Record these sessions for further use as instructional content.
- Provide visual meeting space for students outside of regular class time and for online courses.
- Provide virtual office hours for online courses.

Tips for Using Zoom in a Synchronous Course

- Require Self-Identification - It is not always possible for the instructor or the students to see who is talking. Knowing who is speaking sometimes provides clues regarding the best response and provides the instructor opportunity for later follow up with the student. Consider having students first say their name (and location if more than two) i.e., “This is John Doe from WIU Quad Cities”, before sharing or asking a question. Until individuals in the class get used to this the instructor, as well as other classmates, may need to prompt each other to state their names before speaking until everyone is used to this protocol.
- Use Microphone Awareness - **When teaching a course via Zoom at WIU, student microphones are turned off by default. Students must use the Chat feature to request that they be unmuted in order to speak.** Microphones are always on in a video conferencing classroom. Almost all sounds from each location can be heard in other locations. Sounds that can be heard include whispering, side commenting, eating food, sneezing, pencil tapping, page-turning, etc. Explain this to your students and encourage them to use restraint by being cognizant of what others can hear and limiting unnecessary noise in the classroom.
- Set a Standard of Etiquette - Some items to consider for inclusion are:
 - ▶ Avoid side conversations, shuffling paper, tapping pens, non-essential noise of any kind. This can be picked up very easily on microphones and make it hard for the remote locations to hear the main conversation. **For these reasons, during courses offered via Zoom at WIU, student microphones are turned off by default. Students must use the Chat feature to request that they be unmuted in order to speak.**
 - ▶ Refrain from chewing gum, eating and drinking.
 - ▶ Make eye contact with individuals you are speaking to at the remote site by looking into the camera, not at the projection screen.
 - ▶ Show that you are listening to others at the remote site by nodding your head and looking into the camera.
 - ▶ Direct questions or comments to a particular person at the remote site, by stating their name to gain their attention.

- Teaching on Camera - Consider the following ideas, when teaching via video conference.
 - ▶ Arrive in the virtual space and local room (if that pertains) a few minutes early to test all video and audio connections. If you have a facilitator or moderator, work with them to ensure that they know the plan for your course and the level of assistance that will be needed.
 - ▶ Mute your microphone when you are not speaking to students at remote sites. Also, have students at all sites mute their microphones when they are not speaking to avoid feedback.
 - ▶ Maintain eye contact with students at both locations. Distribute your time evenly by looking at your local students the same amount of time you would spend looking at your remote students. Remember to look at your remote students and provide eye contact. You must look directly into the camera to ensure that you are making eye contact with remote students.
 - ▶ Speak as you would in a traditional face-to-face class. Remember to reduce environmental noise by closing windows and doors, muting cell phones, turning off computer alert sounds, asking students to practice etiquette discussed previously and be aware of microphone placement to avoid accidentally bumping it or covering it with papers during your class.
 - ▶ When delivering a presentation, sharing images, files or video, remember to allow for a potential 2-3 second transmission delay. This can also occur with audio. Pause after the end of your comments and allow time for students to respond before continuing to the next discussion or visual.
 - ▶ Routinely check with students for coherence, and the remote student's ability to see and hear everyone and everything from the sending site.

- Pedagogy and Collaboration Ideas - Consider the following ideas, when preparing to teach via video conferencing.
 - ▶ Always have and share a concise plan. Consider providing an agenda/plan for each course period so that students at all sites can clearly see how the class period is going to progress, what the grouping will be for each discussion/activity and gain an overall picture of how to transition from one activity to the next. Each class agenda/plan can reiterate expected etiquette.
 - ▶ Teach to your lesson plan or agenda. Stay within the intended sequence of events and be mindful of allotted time in order to keep students engaged and on task.
 - ▶ Questioning and Inquiry - When presenting information take moments to provide time for questioning and inquiry to engage learners. When you practice this, give participants ample time to respond. It takes time to formulate responses and at times the video conferencing technology can delay delivery of responses as well. Participants at remote locations must offer feedback to let instructors know if they are lost in the presentation, cannot hear, or cannot see important details on the screen.
 - ▶ Break-Out Groups - Prior to large group discussion consider providing a small portion of class time for small group discussion or use the "think-pair-share" method to have students

briefly answer a question, solve a problem, complete an activity or etc. Then reassemble into large group having one person from each small group serve as a facilitator or speaker representing their group in the larger group discussion. Combine this with the practice of self-identification, and number or name the groups or teams and have the speaker/facilitator for the group include that information when speaking. You could also have slides set up with team names and a list of members in that group or team showing on the screen during these discussions. If you would like to change these groups/teams/pairs upon from time to time you could consider using the groups feature on Western Online to allow students to choose and create their own teams or randomly assign them. This would also allow them to see who is in each group or team. You can use Zoom's Breakout Room feature to assist with these group work activities.

- ▶ Allow for students to use annotation tools during presentations.
- ▶ At times make students the presenter to let them share thoughts, ideas, projects and etc. with the entire class.

Ideas for Using Zoom as a Screen casting Tool

- Create narrated and annotated slide lectures and mini lectures.
- Create overviews and introductions for online courses.
- Create screen recordings and tutorials for software programs, filling out forms, web tours, and etc.

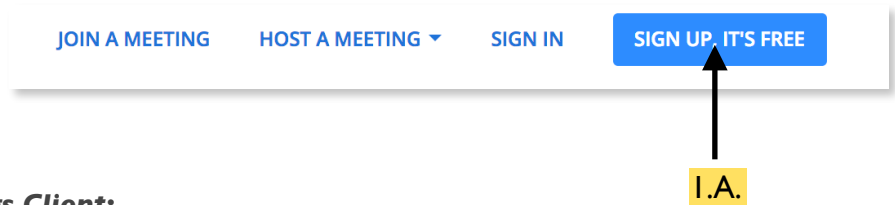
Tips for Using Zoom for Screen casting

- Keep video segments/lessons short.
- Use visuals, images and animations sparingly when they can help convey a point.
- When projecting text keep text on a page or slide to a minimum. Too much text, or making text too small to fit it on one slide will make it impossible to read via screen sharing in Zoom.
- Use Zoom's annotation tools to point out specific information or direct student's attention to a key point.
- Create guided or embedded questions or activities for the students to do while or right after watching the video segment.
- Test knowledge with quizzes and self-assessment.

I. Setting up an Account & Downloading the Meeting Client

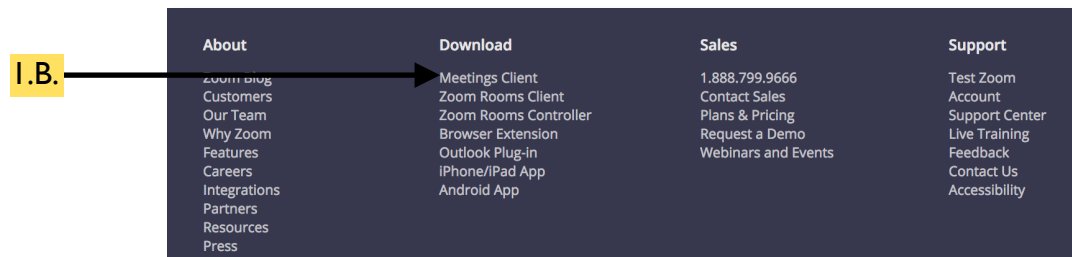
Setting up an Account:

- A. You will need to set up a free account to use Zoom if you do not already have one. To set up your free account, go to <https://zoom.us>. Click on the **Sign Up, It's Free** button in the upper right-hand corner of the screen and follow the on screen instructions. A free trial allows you to host meetings that last up to 40 minutes.



Downloading the Meetings Client:

- B. You will need to download the Zoom Meetings Client from <https://zoom.us>. Scroll to the bottom of the page. Click on the **Meetings Client** link under the Downloads section of the menu.

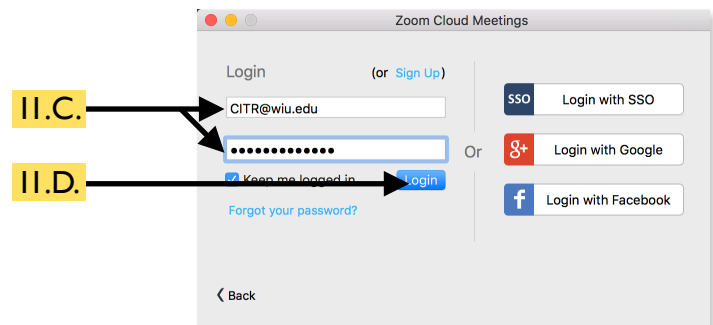


II. Logging In

- A. Open the Zoom Meeting Client.
B. Click **Sign In**.



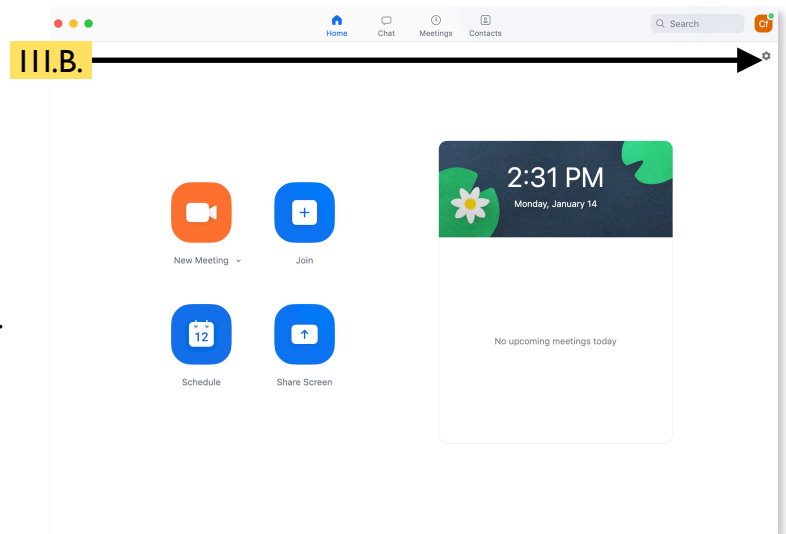
- C. Enter your username and password.
D. Click the **Login** button.



III. Adjusting Settings

Adjusting your Audio and Video Settings:

- A. Plug your Logitech QuickCam into the USB port on your computer.
- B. Click on the **Settings** link in the upper right-hand corner of the Zoom Home Screen. (Click on the Gear shaped icon.)

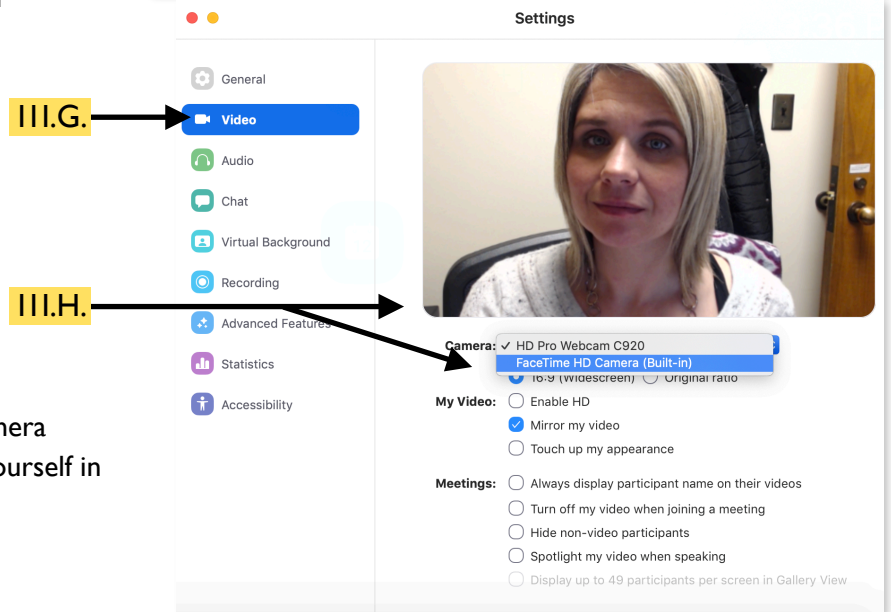


- C. Click on the **Audio** link in the left panel of the window.
- D. Click on the **Test Speaker** button to ensure that you can hear participants.



- E. Under Microphone settings, choose the **Built-in Microphone** or external microphone that you will be using.
- F. Click the **Test Mic** button and record a small audio snippet. When you have finished recording it will automatically play back to show that it is working.

- G. Click on the **Video** icon in the toolbar at the top of the window to open your video settings.
- H. Click on the **Camera:** drop-down menu and choose the **Built-in camera** or external camera that you plan to use. You will see yourself in the preview window.

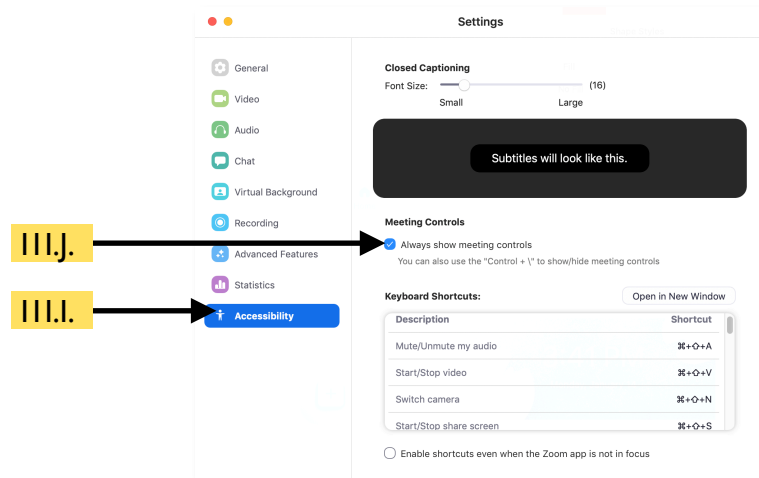


Note: In Zoom you can have more than one camera connected at a time. You can switch between cameras to change the view for your participants. III.Adjusting Settings, cont.

Adjusting your Toolbar:

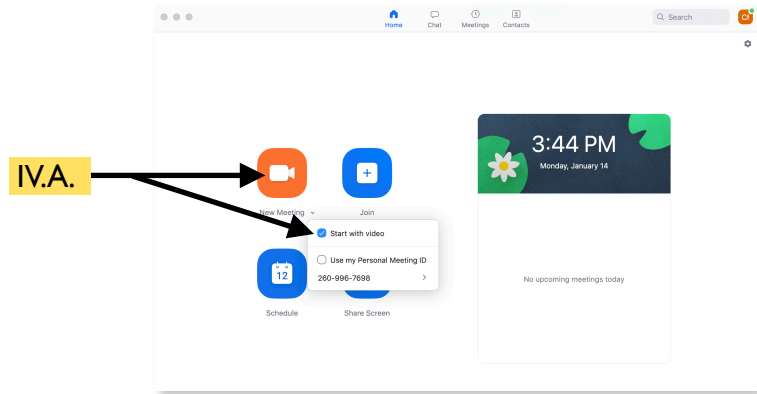
In Zoom the main toolbar which is located at the bottom of the video conference window is set to disappear when you are not actively using it and reappear when you move your mouse towards it. However, if you prefer to have it showing all of the time you can set your preferences as shown below.

- I. Within the Settings window click on the **Accessibility** button.
- J. Click in the checkbox in front of **Always show meeting controls** to select that option.

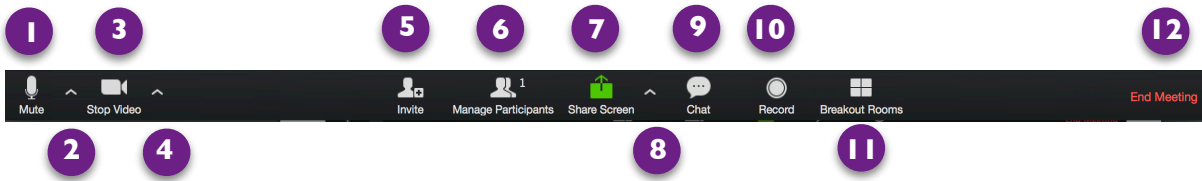


IV. Starting your Meeting

- A. In the Zoom Home Screen click on the **New meeting drop-down menu and choose Start with video.**
- B. Your meeting will begin and you will see the Zoom video conferencing interface appear.



Using the Toolbar:



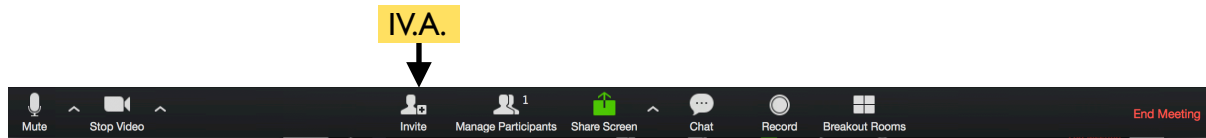
1	Mute/Unmute Microphone	Allows you to mute your microphone so participants cannot hear you, and then unmute it so that they can hear you when you are ready for them to hear you.
2	Microphone/Speaker Settings	Clicking on the up arrow allows you to access the microphone and speaker settings as well as the Audio settings, which is where you can perform an audio test.
3	Stop/Start Video	Allows you to start and stop your video feed.
4	Video Options	Clicking on the up arrow allows you to access the video options which allows you to switch video inputs, adjust video settings, or add a virtual background.
5	Invite	Allows you to invite participants to your meeting.
6	Manage Participants	Opens the participant management panel, where you can manage participant settings such as mute/unmute microphones, start/stop cameras, lock screen sharing, lock the meeting, and etc.
7	Share Screen	Lets you share your screen with your participants.
8	Screen Sharing Settings	Lets you set how many people can share at a time, and whether or not participants can share their screens.
9	Chat	Lets you start a private or a group chat.
10	Record	Lets you start recording the video and audio of your meeting.
11	Breakout Rooms*	Lets you break the meeting attendees up into small groups for collaboration and group work activities.
12	End Meeting	Lets you end or leave the meeting.

*** Only available on Professional (paid) licenses.**

IV. Inviting and Managing Participants

Inviting Participants:

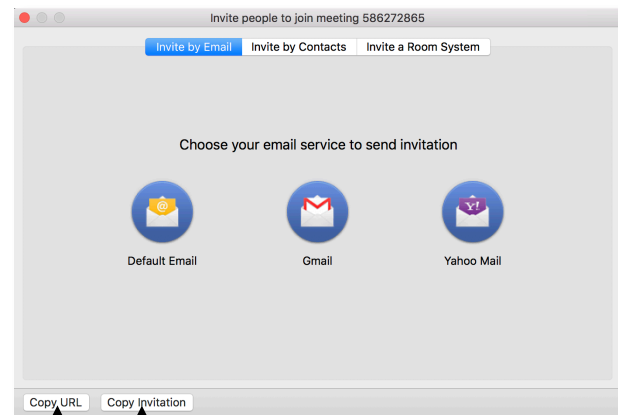
A. Click on the **Invite** button on the toolbar.



B. Click the **Copy URL** or **Copy Invitation** button.

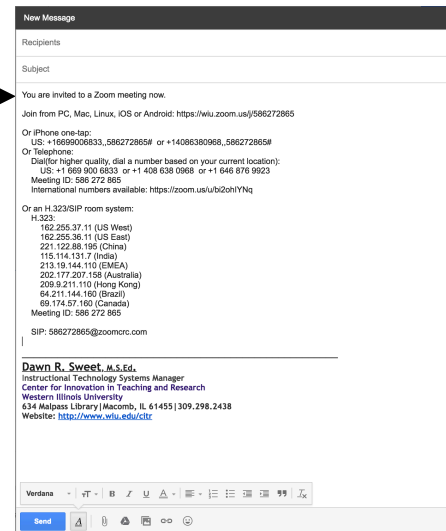
C. Paste what you copied into your email program and send it to your participants.

Alternatively, for a class that will continually use the same meeting link, you can paste the link or invitation into your WesternOnline course for continued use.



IV.B.

IV.C.

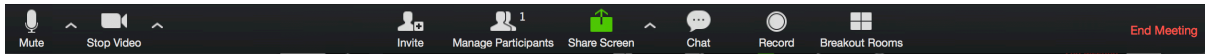


IV. Inviting and Managing Participants, cont.

Managing Participants:

- D. After you send your invite, you will want to open the Manage Participants window. Click **Manage Participants** in the toolbar.

IV.D.



- E. As your participants arrive you may hear a chime sound, and you will begin to see their names show up in the **Manage Participants** window.

IV.E.

II.F.

- F. Click on the **More** drop-down menu and you will see options for controlling your participant video, name, hosting controls, and etc.

- G. To easily control the audio and video availability of a specific participant you can just click on the audio and video icons to the right of their name.

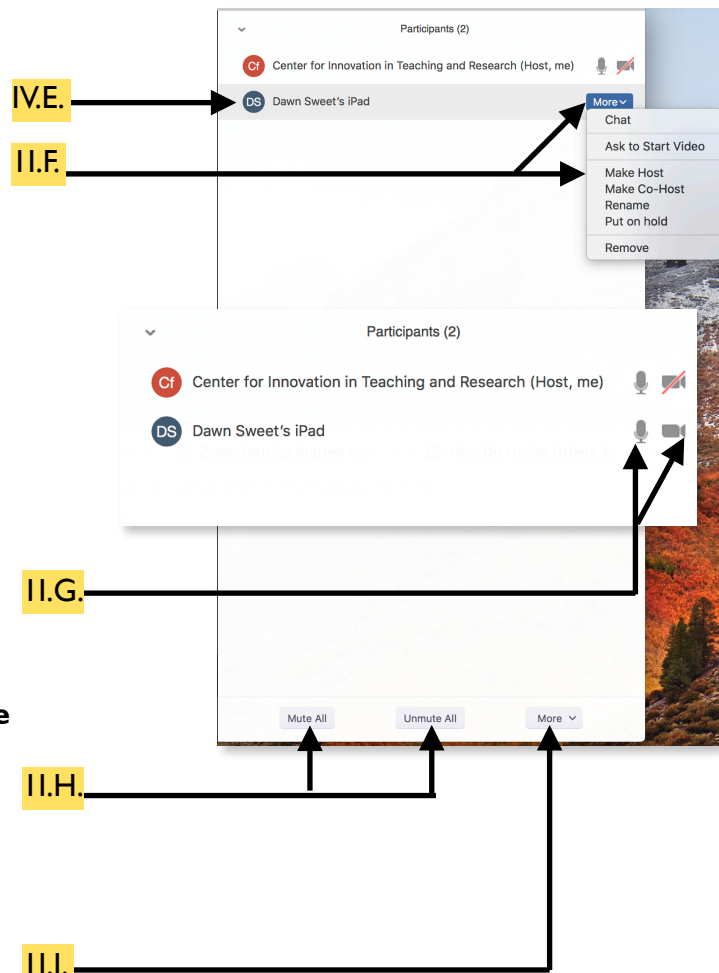
II.G.

- H. If you would like to **Mute or Unmute All** participants at one time, click the **Mute All** or **Unmute All** button.

II.H.

- I. Click the **More** button to drop-down a menu that allows for **Muting Participants on Entry, Playing the Enter/Exit Chime,** and **Locking the Meeting.**

II.I.

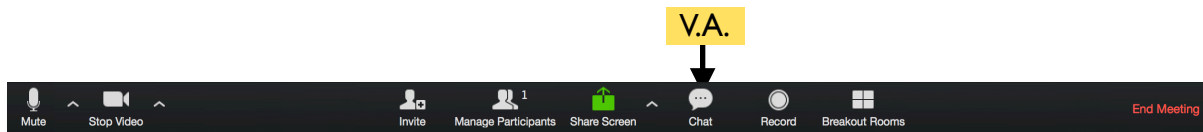


Note: Once your participants start arriving, begin speaking to them and ensure that they can see and hear you. Have them start speaking to you to ensure that you can hear them. If there are issues with feedback, you can mute your microphone when you are not talking. As discussed above, you also have the ability to mute your participant's microphones when they are not talking. Similarly, you can stop your own camera and your participant's cameras if bandwidth and lag becomes an issue as discussed above.

V. Chatting with Participants

Within Zoom you will also have the ability to chat with participants both publicly and privately. Anytime someone is having trouble communicating via microphone and/or camera you can always try communicating with them via the chat window to assist them in getting set up. Participants can type questions into the chat window as you meet and you can answer them verbally or via the chat window. Chat transcripts can also be saved and shared at the end of your meetings.

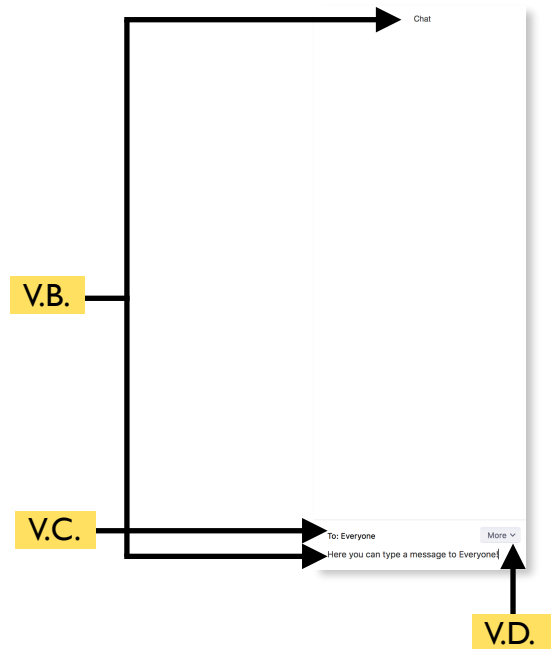
- A. Click on the **Chat** button on the toolbar.



- B. The chat window will appear to the right of your screen. Click in the field provided at the bottom of the screen to type a message to **Everyone** (all participants).

- C. Click on the word **Everyone** to switch from public to private chat. When switching to private chat, click on the name of someone in the list whom you wish to chat with. Type your message, in the field provided then press your **Enter/Return** key on your keyboard.

- D. Click on the **More** drop-down menu to control chat settings such as, **Saving the chat transcript** and selecting who **participants can chat with**.

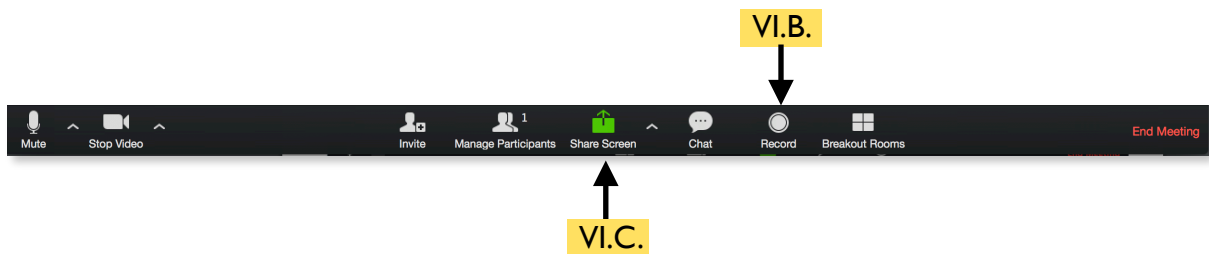


VI. Screen Sharing

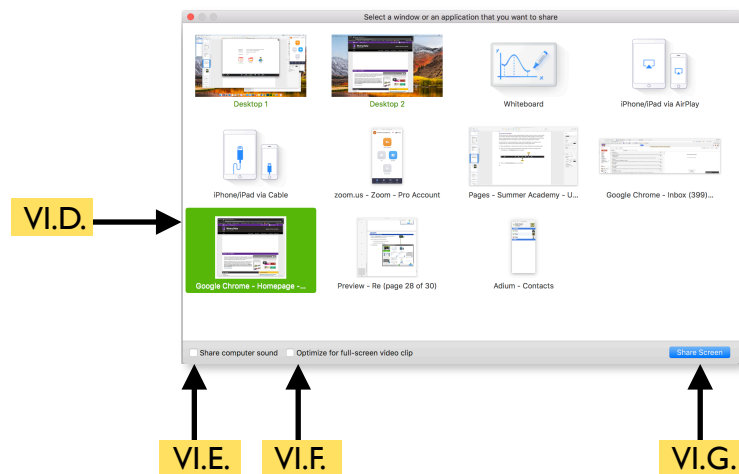
Within Zoom you can share your screen with participants and they can share it with you. Screen sharing can be used for interactive white boarding, sharing a presentation, walking through a document, giving a web tour, showing software tutorials, and etc. When combined with recording, Zoom's video and screen sharing capability also make it an excellent choice for basic screen casting of course materials.

As a best practice, it is recommended that you open any and all applications or windows on your computer that you would like to share before starting screen sharing within Zoom.

- A. Open any applications or windows that you will want to share during your screen sharing session.
- B. If you want to record the screen sharing portion of the session, and have not already started recording, click on the **Record** button on the toolbar.



- C. Click on the **Screen Share** button on the toolbar.
- D. When the window selection screen appears, click on the Window you would like to share to select it.
- E. Notice at the bottom left of the screen there are two checkboxes. If there is sound that will be passing through your computer such as a video, audio clip, or sound effect that you want your participants to hear, click in front of **Share Computer Sound**.

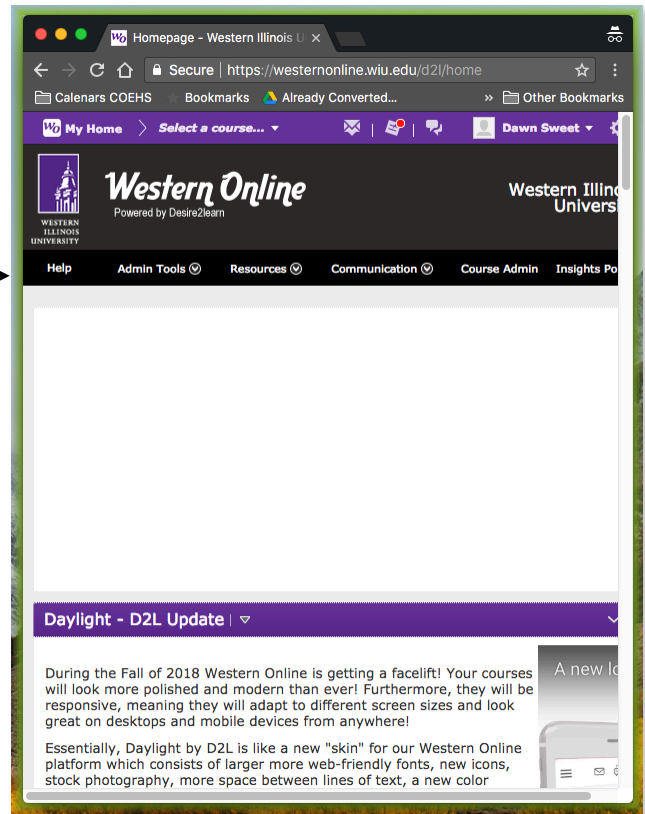


- F. If you intend to share a video with your participants, click in front of **Optimize for full-screen video clip**.
- G. After you have made all of your selections, click the **Share Screen** button.

VI. Screen Sharing, cont.

H. Once you go into screen sharing mode you will be able to identify what is being shared with your participants by the green glowing bounding box that outlines the window.

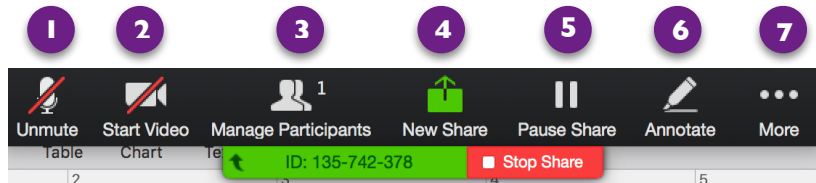
VI.H.



VI. Screen Sharing, cont.

Screen Sharing Toolbar:

At the top of your window, you will see a small screen sharing toolbar. Look at the image below and descriptions to learn about tool options within the screen sharing environment.




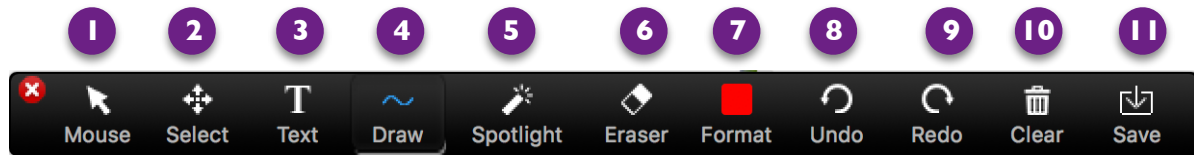
1	Mute/Unmute Microphone	Allows you to mute your microphone so participants cannot hear you, and then unmute it so that they can hear you when you are ready for them to hear you.
2	Stop/Start Video	Allows you to start and stop your video feed.
3	Manage Participants	Opens the participant management panel, where you can manage participant settings such as mute/unmute microphones, start/stop cameras, lock screen sharing, lock the meeting, and etc.
4	New Share/Start Share	Allows you to return to the screen selection window so you can share a different window. Also allows you to Restart a share that you have previously stopped.
5	Pause Share/Resume Share	Lets you pause the current sharing session momentarily and then. Click the pause button one time to pause it and then click it again to resume it.
6	Annotate	Opens the annotation window so that you can make annotations over the screen. This window will be discussed in more depth in the next section of the tutorial.
7	More	Opens a drop-down menu with additional menu items. These will be reviewed later in this tutorial.

VI. Screen Sharing, cont.

Screen Sharing Annotations Toolbar:

Annotations within the screen sharing portion of Zoom allows you to provide online drawings, text insertion, as well as, calling out attention to specific information with a spotlight tool. Look at the image below and descriptions to learn about tool options within the screen sharing environment.

Click on the **Annotate button** () in the Screen Sharing toolbar to open the annotations toolbar.

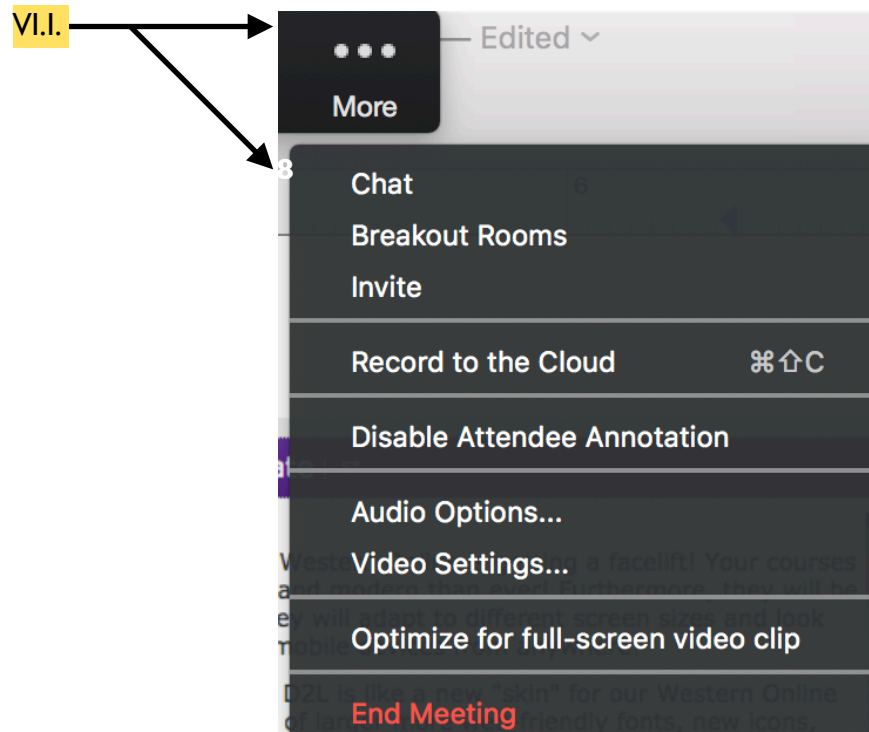


1	Mouse	Functions as a mouse on the screen. Click on this icon each time you want to switch between annotation tools.
2	Select	Lets you select an annotation object on the screen. For example, if you have drawn a shape this tool lets you select that shape and move it.
3	Text	Creates a text box where you can type text on the screen.
4	Draw	Opens a drawing tool box with both constrained shape tools and free hand drawing options.
5	Spotlight	Allows you to click and shine a laser point or an arrow to highlight specific information on the screen.
6	Eraser	Allows you to erase something on the screen.
7	Format	Allows you to make changes to color (shapes/lines/text) and font changes such as color; bold, italics and etc.
8	Undo	Allows you to undo your last change.
9	Redo	Allows you to redo your last undo.
10	Clear	Clears your annotations.
11	Save	Allows you to save your annotations as an image file.

VI. Screen Sharing, cont.

Screen Sharing More Menu:

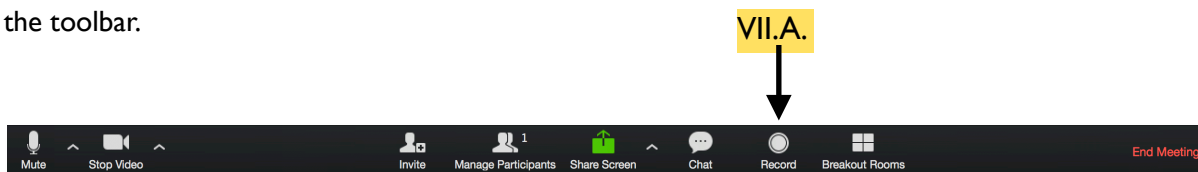
- I. The more menu on the screen sharing toolbar opens as a drop-down menu when you click on the **More button** on the screen sharing toolbar.



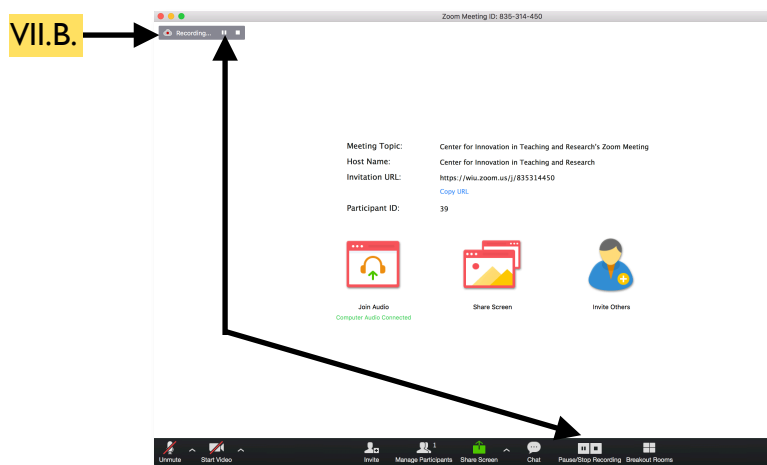
VII. Recording Meetings

Zoom allows you to record your meetings. If you have a paid account you can record and save your recordings to the cloud or locally. If you have a free account you can record and save your recordings locally to your computer. Use Zoom's recording capabilities to record lectures, introductions, screencasts, guest visitors, and etc.

- A. To begin recording your meeting, click on the **Record** button on the toolbar.



- B. Once the recording begins, you will see a recording indicator in the upper right corner of your screen.
- C. If you need to pause the recording click on the **Pause** icon in the indicator at the top of the page, or the **Pause/Stop Recording** button in the toolbar.



* **Note about FREE Accounts:** If you are using a free account and you do not see the record button at the bottom of your screen follow these instructions.

- ◆ Logout of your account in the desktop application.
- ◆ Login to your account by navigating to <https://www.zoom.us> and clicking **Sign In** in the upper right corner of the window. When prompted enter your Email address and password and then click the **Sign in** button.
- ◆ In the menu to the **Left** of the screen, click **Meeting Settings**.
- ◆ Click the **Recording Tab/Link**. Toggle **Local recording** to on.
- ◆ When prompted click **Turn On** again.
- ◆ Log back into your desktop client and the Record button should appear.