

VIRTUAL CHOIR: WHAT YOU NEED TO GET STARTED

Q and A

To ask the presenter a question, you will type that in the Q and A box.

CHAT

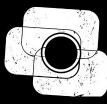
The chat box will be used for the presenters to give links and other information for particpants.

RECORDING

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TOO MUCH?

If the chat and/or Q and A interactions are too distracting, just close them.











September 8 - 25 VIRTUAL CHOIR: WEBINAR SERIES

Connecting Through Song - Getting Started - Recording Lead Tracks - Preparing Your Choir - Garage Band - Audacity Movavi - Soundtrap & Upbeat Music - DaVinci Resolve





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Agenda

- 1. Introduction
- 2. Process Overview
 - a. Pre (backing tracks)
 - b. Mid (file management)
 - c. Post (editing)
- 3. Software
 - a. Audio Editing Options: Audacity, Garageband, Logic, Bandlab, Melodyne
 - b. Video Editing Options: iMovie, FCPX, Movavi, Davinci
 - c. "Asynchronous" Recording options: Acapella, UpBeat (android), Zoom, and more
- 4. Hardware
 - a. Requirements
 - b. Peripherals
- 5. Wrap up, Q&A

Introduction

- Can't I just use Zoom?
 - Latency is unavoidable
 - Webcam audio is usually not usable
- Why virtual ensemble?
 - During and after COVID
 - Transferable skills for the future
- Overall description of the process
 - Singers record themselves singing along to backing tracks
 - You collect files and edit
- Big-picture overview of what you need
 - Different software options for different objectives, level of complexity, and taste
 - Time take into account time spent learning programs

Process (Pre-recording)

What device(s) do your singers need?

- To record: Phone is preferred
- To play the backing track: Laptop or another phone
 - If participants only have 1 device, this is a challenge

How do your singers know what to do?

- Backing Tracks need something to provide a common pulse & pitch center
- Live vs. MIDI
- Fixing pitch and rhythm in Live vs. MIDI
 - Useful to elicit the most accurate performances from your participants
- Conductor video
 - Helps communicate rit / accel and cues
 - May present additional technical challenges to create and/or playback

Process (during recording)

File Management Options

Method	Cost	Pros	Cons
Dropbox	\$10+/mo	File Requests Feature File system integration	Cost
Google Drive	Free, \$2-10/year	Familiar, free File system integration	No upload-only feature Phone -> Drive is tricky
Email	Free	Familiar, free	Tedious; file size limits (unless using WeTransfer)
SMS	Variable	Familiar, free	Tedious; compatibility; privacy concerns

Process (post-recording)

- Importing audio and files
 - Videos will differ in file extension, resolution, audio sample rate
 - Major differences in audio volume, EQ spectrum, dynamics, and ambient sound
- Video editing basic needs
 - Ability to place 3+ videos on screen at once
- Why edit audio separately?
 - Audio-specific programs enable greater control over:
 - Volume/Loudness
 - EQ adjust bass/mid/treble, remove harshness, unwanted resonance, etc
 - Compression control dynamics of a performance (loud peaks)
 - Reverb spatial effect recreating live performance in a venue

Audio Software Options (of many!)

<u>Name</u>	<u>Platform</u>	<u>Cost</u>	Learning Curve	Notable Pros	Notable Cons
Audacity	Mac & PC	Free	High	Noise Reduction	User interface No MIDI Instruments
Garageband	Мас	Free	Low	Easy	Limited plugins
Logic Pro X	Мас	\$199	Medium	Full function MIDI Instruments	Take editing Cost
BandLab	Online (Mac/PC)	Free	Medium	Platform Agnostic	Filetypes Requires internet Limited plugins
Quicktime MPEG Streamclip Handbrake VLC Player (plus online tools)	Mac/PC	Free	Low to High	Separate audio from video	Need to know which filetypes are supported by which editors
Melodyne (Auto-Tune)	Mac/PC	\$100	Medium-High	Incredible pitch & timing control	Not a full audio workstation

Video Software Options

<u>Name</u>	<u>Platform</u>	<u>Cost</u>	Learning Curve	Notable Pros	Notable Cons
iMovie	Мас	Free	Low	Easy	Limited functionality (2 simultaneous videos max)
Final Cut Pro X	Мас	Free trial, \$300	Medium-High	Full function	Cost
Adobe Premiere Pro	Mac, PC	Free trial, \$20/mo	Medium-High	Full function	Cost "Elements" cheap version is useless
Movavi	Mac & PC	Free-ish	Medium	Platform Agnostic	Clunky user interface
Davinci Resolve	Mac & PC	Free	Medium-High	Full function Built in DAW	Learning curve is high

"Asynchronous" Options

Name	<u>Platform</u>	<u>Cost</u>	Learning Curve	Notable Pros	Notable Cons
Acapella App	iOS	\$10/mo	Low	Easy	iPhone/iPad only Everyone needs app 8 singers max
Upbeat Music	Web, Android	\$10/mo	Low	Almost real-time Could be good for rehearsal	Live, for better or for worse (can't edit)
Jamkazam, Jamtaba, Jamulus, etc	Web-based	Free-ish	Medium-High	Almost real-time	Technical difficulty Can be frustrating
Zoom	Mac & PC	Free	Medium	Familiarity	Not true sync Need to record audio separately
Mideo, etc	iOS & Android	\$3	Low	Record video while listening to audio	Price Participants need to install themselves

Hardware Requirements

- Hard Drive Space
 - Programs 5-8 GB each
 - Raw Video Files 50-200 MB / video
 - Sessions duplicate all files (you'll need 2x as much storage)
- Computer Specifications
 - 2 GHz+ processor / 4 GB+ RAM
 - Larger projects -> More CPU load -> Harder to edit effectively
- Peripherals
 - External Hard Drive
 - MIDI Keyboard for MIDI backing tracks
 - Interface needed to capture high quality audio from a microphone. Bundles from ~\$200
 - USB microphone cheaper but less high-quality
 - Decent headphones but earbuds will do. Anything other than built-in speakers

Wrapping up

Q & A

Thanks to PRC - www.prcli.org

My website for examples: <u>www.stststephen.com/video</u>

One-pager: <u>http://bit.ly/virtual-ensemble</u>

Contact me: stephen.chen.mail@gmail.com

Upcoming PRC Webinars this and next week

My life-changing headphones: Sennheiser HD 380 Pro