

Online Learning Technical Stuff



Some tips for an enjoyable experience online.

Just because we're apart, doesn't mean we can't be together.

Online Learning Technical Stuff

We are now in a position to suggest some things that work better than others for online jazz education. This pamphlet provides guidance for an optimal and musical learning experience. If possible, don't be overwhelmed!

The Basics

1. MOST IMPORTANT of all **Sound and video-check** in advance. Make sure you can hear yourself and your computer clearly and that you are comfortable.
2. Download the **Zoom** app (aka the **Zoom** "Client") for your computer www.zoom.us
3. The optimal microphone position for you and your instrument/voice.
4. the optimal sight line - so we can see each other.
5. **iReal Pro** as accompaniment. Make sure that the amplification is loud enough. It is possible to run this through directly through **Zoom** once you understand Screen Sharing. In the short term, make sure you can take a line out from your computer to an amplifier or Boom/Amazon Alexa etc. See below.
6. Be patient!



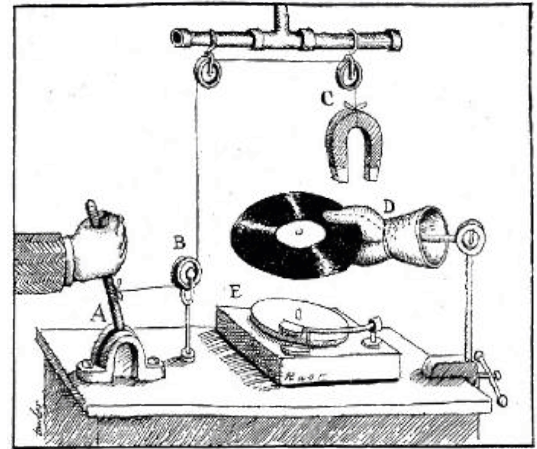
Set-ups:

1. **Entry Level** - minimum amount of equipment, basic principles. Works well with a little preparation. Most convenient.
2. **Intermediate** - a few add-ons for a better sound. Slightly inconvenient!
3. **Semi-pro** - some preparation required but with obvious improvements. Might require some patience!

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1. Entry Level

- Computer audio and video, computer's own webcam.
- Computer's internal mic.
- Audio via headphones or speakers. *UE Boom, Amazon Alexa* etc are good. Speakers connect via lead or Bluetooth.
- The computer mic "hears" and transmit a play-along track from the speaker + you.
- Use "Original Sound" on Zoom. See this short video for best audio settings.



www.youtube.com/watch?v=50NoWIIYECA&feature=youtu.be

Pros

- Less to go wrong!

Cons

- Variable sound quality.

You will need to:

- Find the best place to sit or stand in order to be heard.
- Be able to hear clearly.

2. Intermediate

As above +

- **External mic** - i.e. USB mic (*Blue Yeti* is excellent).
www.amazon.co.uk/s?k=usb+mic&ref=nb_sb_noss
- **Webcam** i.e. Logitech webcam.
- Connect to *HiFi* amp/speakers or computer monitors.

Pros

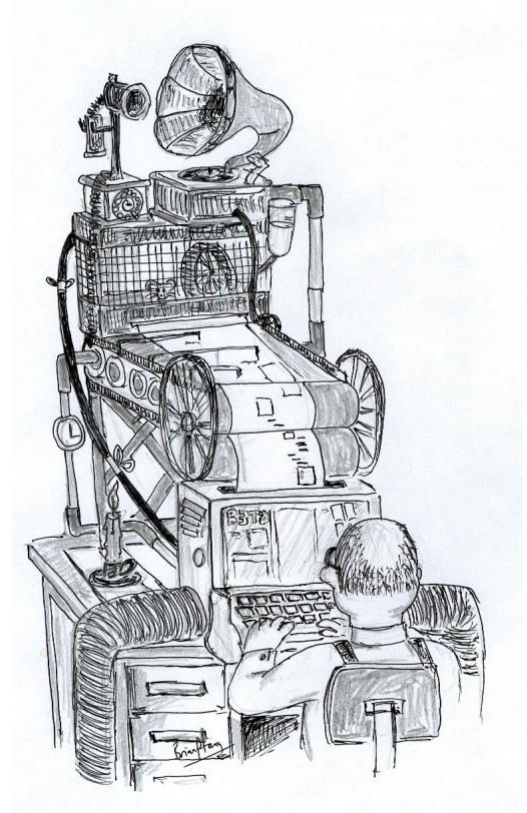
- Better quality audio and video

Cons

- More links in the chain can cause problems.

You will need to:

- Work out best place to position mic.
- Be able to hear clearly. Consider connecting computer to laptop or using headphones.



3. Semi-pro

As above +

- Professional mic (i.e. Shure SM58) - you will need an Audio Interface (converts audio into digital info).
- **Loopback** (optional)
<https://rogueamoeba.com/loopback> enables you to use multiple sources of audio on your computer simultaneously.
- Webcam
- Investigate on *YouTube*. There are many ingenious setups.

Pros

- Better quality sound; can accommodate more instruments (i.e. digital piano, guitar etc).

Cons

- Will require a little thought in order to set up.

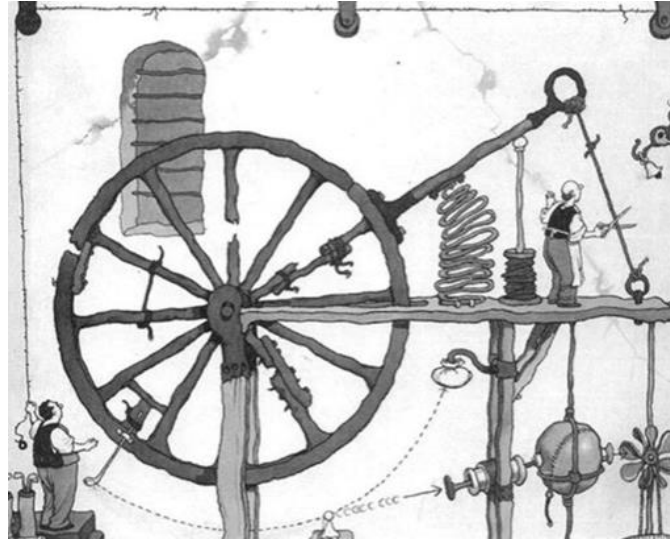
You will need to:

- Be patient in setting up but the results are worthwhile.



- Work out best place to position mic.
- Be able to hear clearly. Consider connecting computer to laptop or using headphones.

Software



- **Zoom** app (aka the **Zoom** “Client”) for your computer www.zoom.us
- **iReal Pro** as accompaniment. Make sure that the amplification is loud enough. It is possible to run this through directly through **Zoom** once you understand *Screen Sharing*.
- **Loopback** <https://rogueamoeba.com/loopback> enables you to use multiple sources of audio on your computer simultaneously.

Helpful Videos, Tweaks and Tips

- **Zoom in "Music Mode"** A great (and short) video from Denmark that explains the best audio settings.
www.youtube.com/watch?v=50NoWliYECA&feature=youtu.be
- **How to get best audio on ZOOM.** Essential viewing
<https://www.youtube.com/watch?v=B3O243TJBml>
- **Online music lesson set-up.** If you look at nothing else, see this one.
www.youtube.com/watch?v=n9812NucA0o
- **Mirroring iPad/iPhone to Laptop - play iPhone apps on computer/in Zoom etc** This enables you to iOS apps to your computer, i.e. *iReal Pro*, *DrumGenius*, *YouTube*, etc. Very easy to set up either:

- With *connecting cable* to QuickTime see tutorial:
 - https://www.youtube.com/watch?v=OnPIFWqE5_Q
 - or
 - <https://www.youtube.com/watch?v=1InvTOPTJUE>
- Better still, connect **wirelessly** using Screen Mirroring function on more recent iPhone/iPads – very easy:
 - <https://www.youtube.com/watch?v=yN55bb5qvCI>

... finally...

Sharing Audio and Video on ZOOM

For when you want to stream (broadcast) audio from your computer to a meeting.

This is very easy on **ZOOM** as follows:

- 1) Enter your meeting.
- 2) Click on the **GREEN** button “Share Screen”.
- 3) Click on **Advanced**.
- 4) Click on “Computer Sound Only”. This streams the sound from your computer to the meeting.

For example, you can play *YouTube* videos and everyone can see and hear clearly.

Good luck!

