

Setting up the Python music workshop

1. Download & install Miniconda & git

If Anaconda or Miniconda is not installed, download Miniconda w/ python 3.7 here:
<https://conda.io/miniconda.html>

Follow their installation instructions:
<https://conda.io/docs/user-guide/install/index.html>

If GIT is not installed, download it here:
<https://git-scm.com/download/>

2. Check your installation

If your terminal/command prompt was open, you'll have to close it first.

Open your terminal/command prompt and enter the following command:

```
conda --v
```

It should say something like:

```
conda 4.5.11
```

Enter another command in the terminal:

```
git --version
```

It should say something like:

```
git 2.11.0
```

3. Virtual environment

We'll create a virtual environment to work in. This allows you to delete the installed dependencies easily after the workshop, if you would like to.

Open terminal again and enter the following:

```
conda create -n musicEnv python=3.6  
y  
conda activate musicEnv
```

if `conda activate` doesn't work, try:
`source activate musicEnv`

Then install the dependencies:

```
pip install --upgrade setuptools  
pip install simpleaudio
```

4. Test

Create/choose a folder where you want to download the audio files and python scripts for this workshop. In this example, we chose a Documents folder which is in the Home folder on a mac.

```
cd Documents  
git clone git://github.com/ruben-yacht/PythonSequencer.git  
cd PythonSequencer/coding-music
```

Now to test if the installation went correctly. You should hear a voice say "Hello":

```
python hello-world.py
```

Now let's hear an example result. You should hear a shortdrum beat.

```
python example-basic-drumbeat.py
```

5. Get ready to make your own music

Open a text editor and open `coding-music.py`