Instructions to run local version of Auto-qPCR

You have already downloaded the folder ‘Local\_Download.zip’ and unzipped the file.

Make a note of where in your file system you downloaded this folder. (Desktop Documents Downloads). For easier use, you can move the ‘Local\_Download’ folder to your desktop.

Now we will set up to run the local program.

1. **Install python3**

<https://www.python.org/downloads/> from the python website follow the instructions for your operating system.

1. **Open your terminal/command prompt**

**mac** <https://setapp.com/how-to/how-to-open-terminal-on-mac>

**windows** <https://www.howtogeek.com/235101/10-ways-to-open-the-command-prompt-in-windows-10/>

1. **Navigate to the correct location inside the terminal/command prompt**

Inside the terminal/command you need to move inside the folder to get into the folder ‘Auto-q-pcr-frontend:

If you have placed the folder ‘Local\_download’ on your Desktop you should be able to type or copy paste this code:

cd Desktop/Local\_Download/Auto-q-pcr-frontend

Press enter.

For information about navigating in shell

cmd for windows: <https://www.digitalcitizen.life/command-prompt-how-use-basic-commands/>

Linux for os and linux: <https://www.pluralsight.com/guides/beginner-linux-navigation-manual>

1. **Install package manager ‘pip’** Type or paste the code in grey into your terminal/command window and press enter after each segment.

**For linux:**

sudo apt-get install python3-pip

**For mac and windows:**

The file ‘get-pip.py’ is contained within Auto-q-pcr-frontend folder and you should not need to download it. Here are the instructions to download the file anyway.

Download the get-pip file for mac

curl <https://bootstrap.pypa.io/get-pip.py> -o get-pip.py

For windows you need to download it online (again it should be in the folder you already downloaded)

Once you have get-pip.py you can then install pip

python3 get-pip.py

1. **Install package to create virtual environments**

Now pip is installed, you can use pip to install virtualenv

sudo pip3 install virtualenv

1. **Run the program that will launch the app locally**
2. **and create virtual environments ‘venv’**

bash run\_os.sh

Press enter.

The script provided will create and open a virtual environment in your computer. Then install all the packages required for the app. Then it will run the app.

1. **Open the website locally**

A web-browser (whatever you have as your default) might open on your computer automatically. If not, you will see a web address in the terminal/command window.

http://127.0.0.1:5000



Right click on the web address and choose open website.

You might have an error that says ‘cannot connect to server’. Click try again or reload and the webapp will open locally.

1. **Analyze your data.**

Use the local web form the same way as the online web app.

1. Exit the app

When you close the window you will still be running a local server and this could slow your computer down. To disconnect the program you can press CTRL +C in the terminal/command window.