

Downloading VNC Viewer onto your Chromebook

Step One: Open in a new web browser your google play store. Note that you can not open it from your Chrome Store. Hence the one that is pre installed into your chromebook. Go to the following link: <https://play.google.com/store> Here will mostly likely be downloading the other applications that we will use in this course. We will notify you if we have any changes.

Step Two: Download VNC Viewer. It is important that you don't get it mixed up with VNC Connect or Client. If you can not find the application look to your partner for help and or look at the splash screen below for a reference as to how it looks.

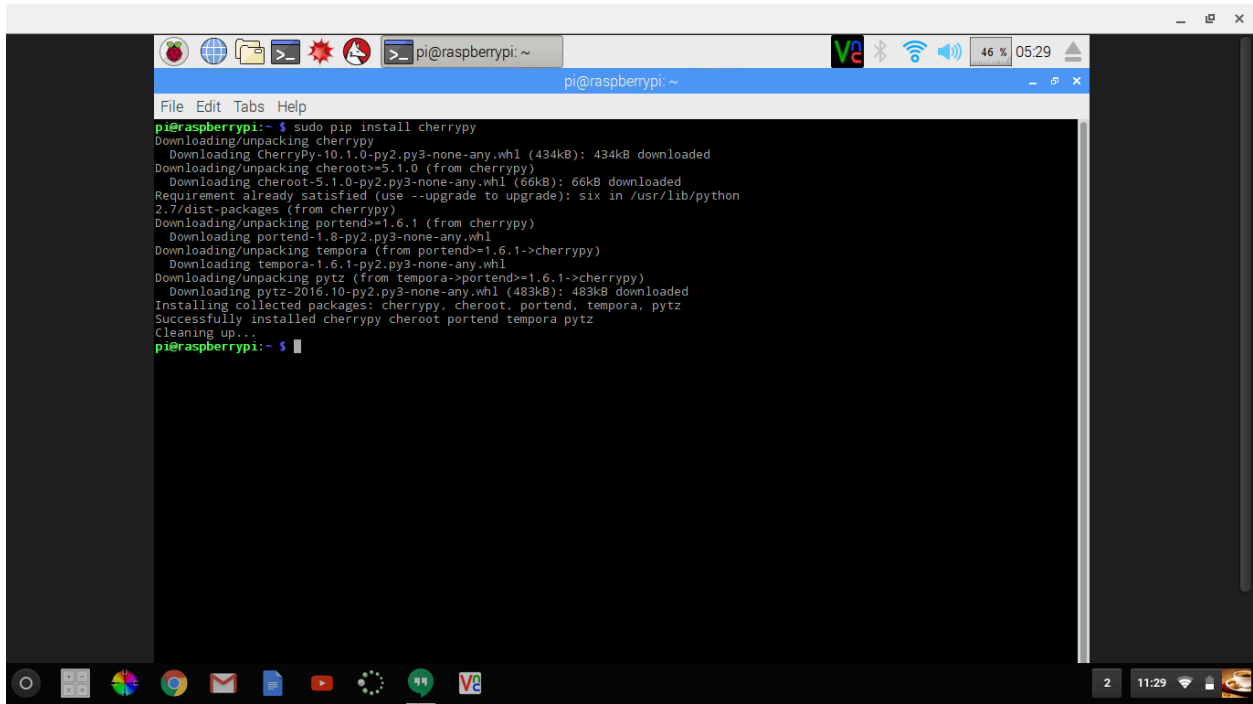


Step Three: Open the application and it should ask you for the IP address for your RPI and you will put what you found using your IP scanner. Leave the Picture quality to automatic then press connect.

Additional Notes: The VNC viewer application was created so that you could remote into your personal RPI when away from it. VNC viewer also makes it easier to control RPI rather having to use the touch screen all of the time. The acronym VNC stands for Virtual Network Computing. You can be anywhere and remote into your RPI (as long as it is on) to do anything from play a pre installed game on your RPI to finishing up some code that you haven't have a complete breakthrough with yet. It will be primitive part in how we will code in this course.

Downloading CherryPy onto your Pi

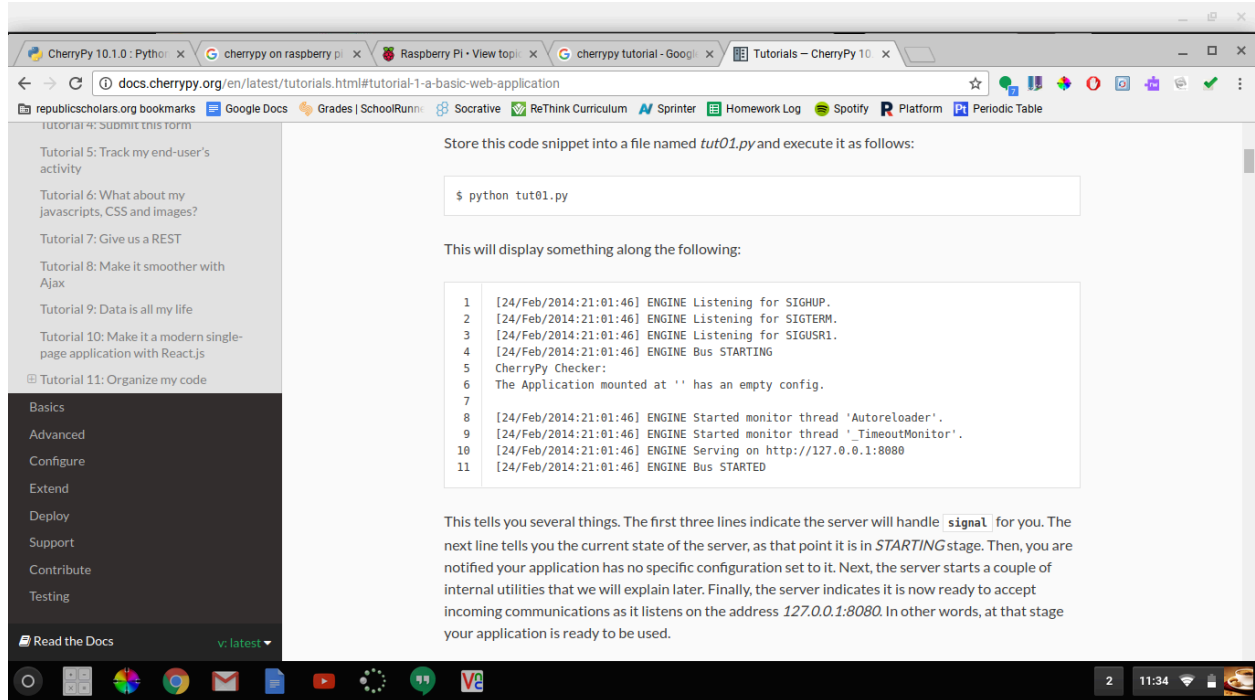
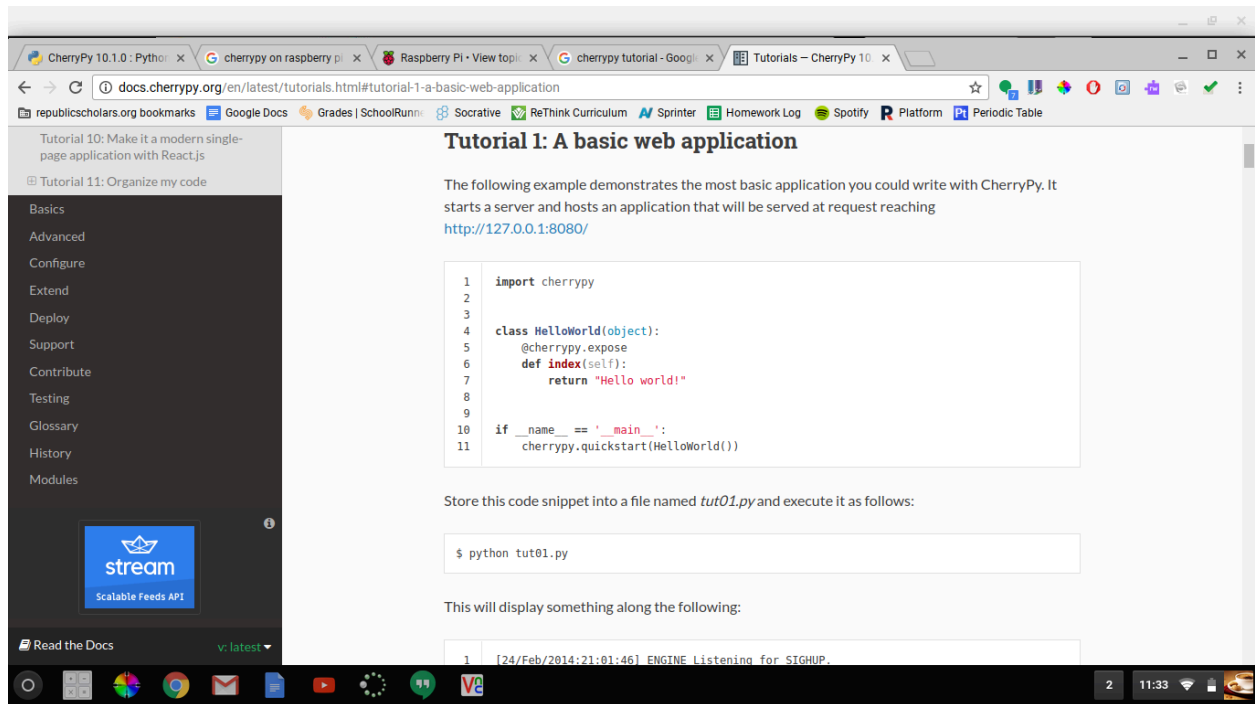
Step One: Open the terminal on your rpi. After opening the pi and booting up VNC, enter the following code: `sudo pip install cherypy` Once finished look to the image below to find what your terminal should look like.



The screenshot shows a terminal window on a Raspberry Pi. The terminal title bar reads 'pi@raspberrypi: ~'. The command prompt is 'pi@raspberrypi:~\$'. The user has entered 'sudo pip install cherrypy'. The output shows the installation progress for CherryPy and its dependencies: CherryPy-10.1.0-py2.py3-none-any.whl (434kB), cheroot-5.1.0-py2.py3-none-any.whl (66kB), portend-1.6.1 (from cheroot), tempora-1.6.1-py2.py3-none-any.whl, and pytz-2016.10-py2.py3-none-any.whl (483kB). The installation is successful, and the prompt returns to 'pi@raspberrypi:~\$'.

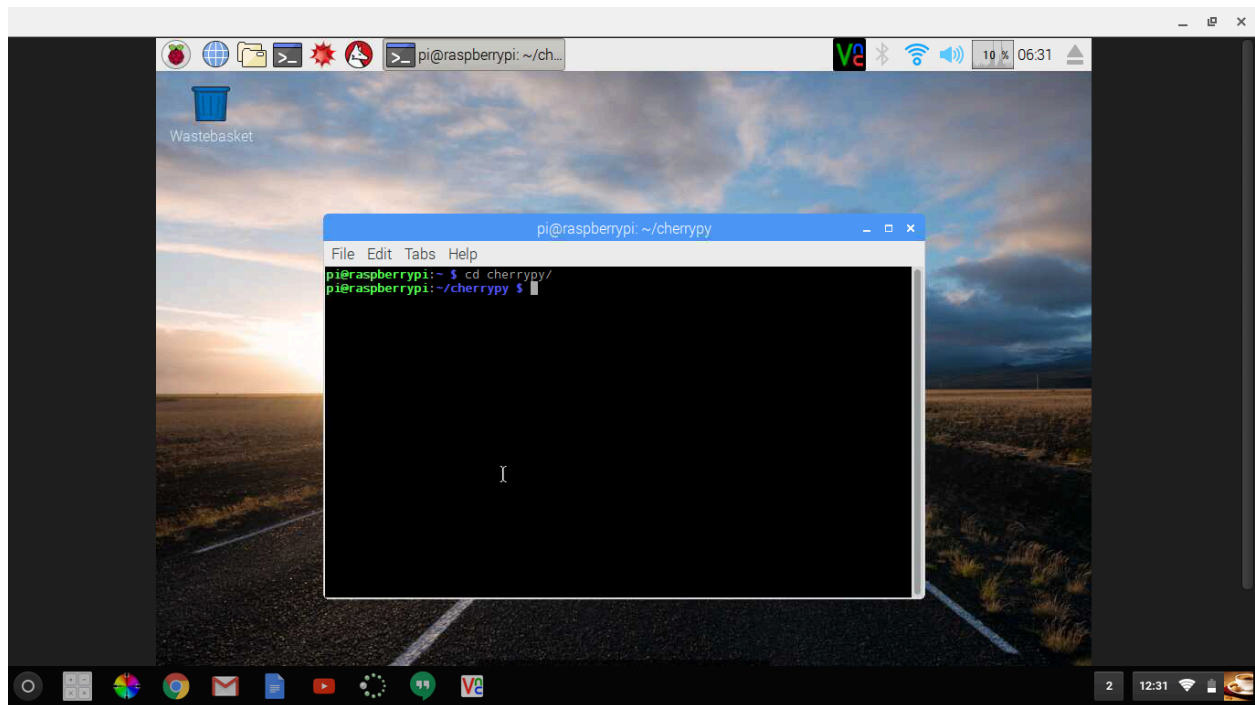
```
pi@raspberrypi:~$ sudo pip install cherrypy
Downloading/unpacking cherrypy
  Downloading CherryPy-10.1.0-py2.py3-none-any.whl (434kB): 434kB downloaded
Downloading/unpacking cheroot>=5.1.0 (from cherrypy)
  Downloading cheroot-5.1.0-py2.py3-none-any.whl (66kB): 66kB downloaded
Requirement already satisfied (use --upgrade to upgrade): six in /usr/lib/python
2.7/dist-packages (from cheroot)
Downloading/unpacking portend>=1.6.1 (from cheroot)
  Downloading portend-1.6.1-py2.py3-none-any.whl
Downloading/unpacking tempora (from portend>=1.6.1->cherrypy)
  Downloading tempora-1.6.1-py2.py3-none-any.whl
Downloading/unpacking pytz (from tempora->portend>=1.6.1->cherrypy)
  Downloading pytz-2016.10-py2.py3-none-any.whl (483kB): 483kB downloaded
Installing collected packages: cherrypy, cheroot, portend, tempora, pytz
Successfully installed cherrypy cheroot portend tempora pytz
Cleaning up...
```

Step Two: Go to the link and follow the screenshots to see if you're on track
<https://www.raspberrypi.org/forums/viewtopic.php?f=32&t=84017>



After going onto the link you need to go the the rpi menu. Do this by selecting the raspberry in the top corner of your rpi, hover over the *Programming* section then click on *Geany Programmer's Editor*. Copy and paste the code from the link into to the blank section of the *Geany Programmer's Editor*. Change the title to *helloWorld.py* make sure to notice the capitalization. On the right side underneath the title change box select Create New Folder. Name the folder cherryppy all one word all lowercase.

Third Step: Open a new terminal type `cd cherry.py`. What this does is change your directory to the cherry.py directory. Cd stands for change directory. After changing your directory type `python helloWorld.py`. Feel free to copy and paste.



By hitting enter you have just activated the cherry.py server. Now open a new tab on your rpi and enter the following: <http://127.0.0.1:8080/> .