

Homework 2

Team: Tea Distribution

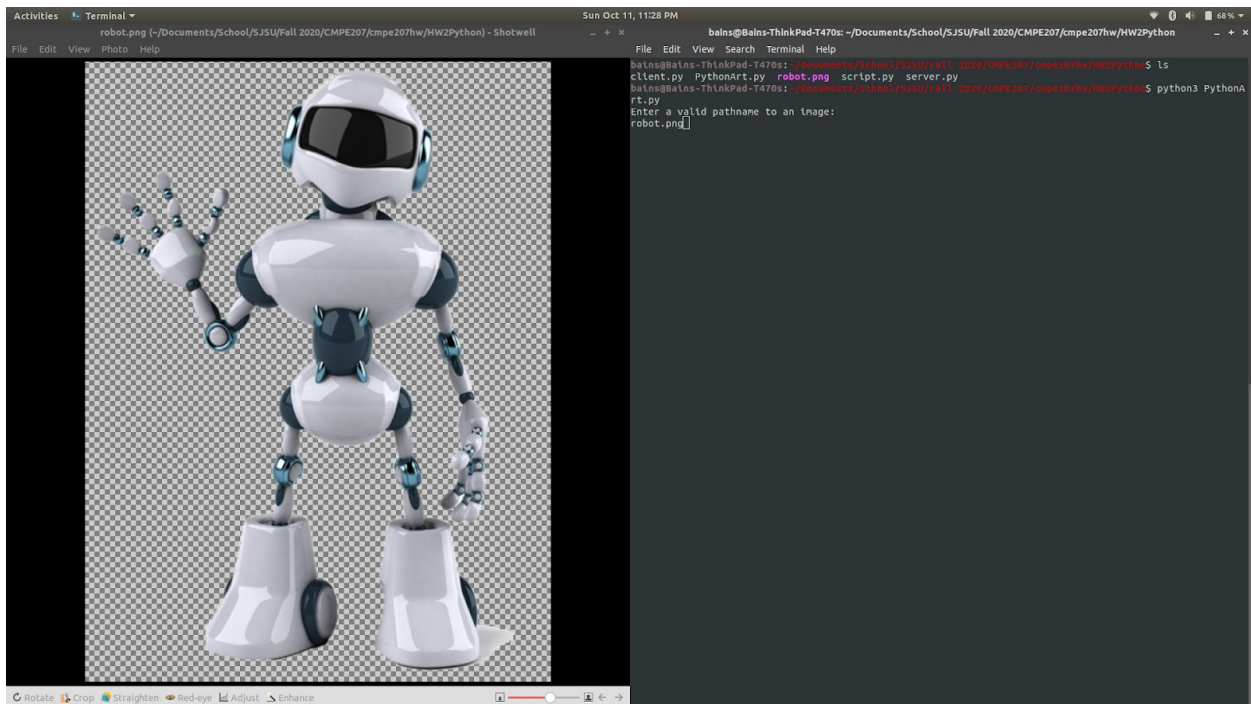
Repo Link:

<https://github.com/gtgan/cmpe207hw/tree/master/HW2Python>

Description:

In this repo there are a couple of files. The PythonArt.py script will take in a path of an image. It will then turn this image into ascii art. It will also create a .txt file of the image entitled 'ascii_image.txt'. The server can then use the text file and send it over the network line by line. The server file will do just that. The client server will connect to the server and receive the information that the server sends.

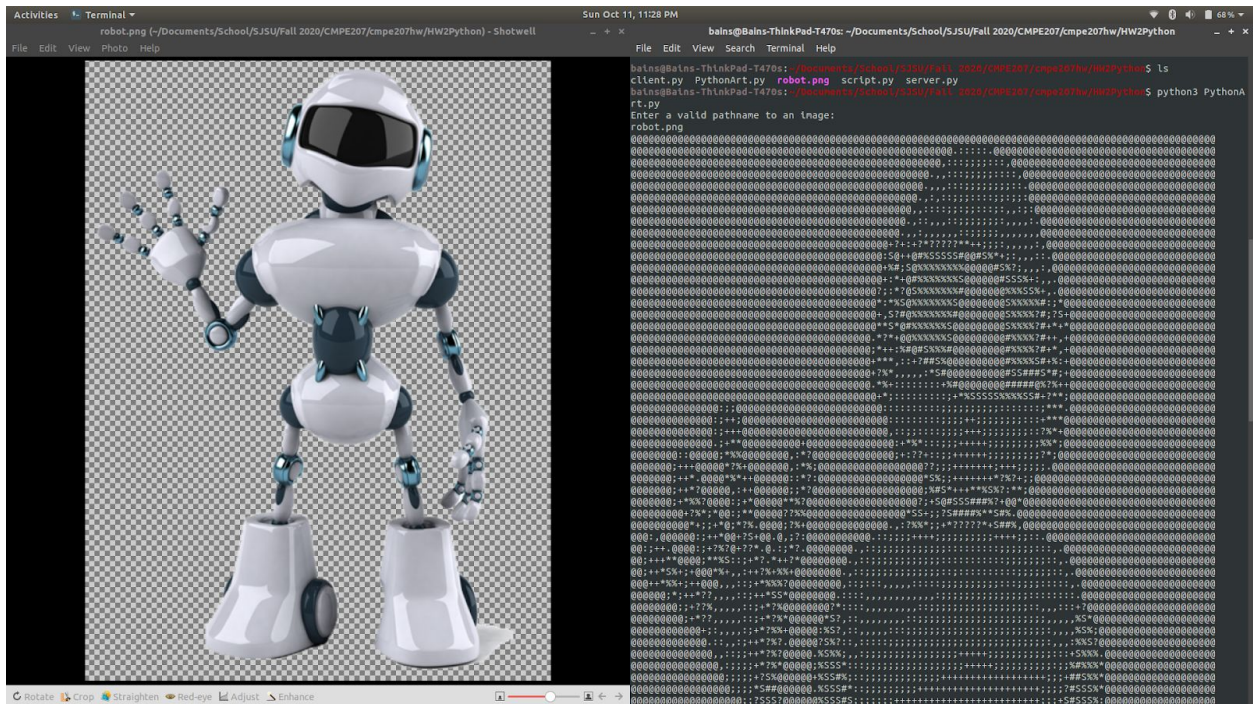
Screenshots:



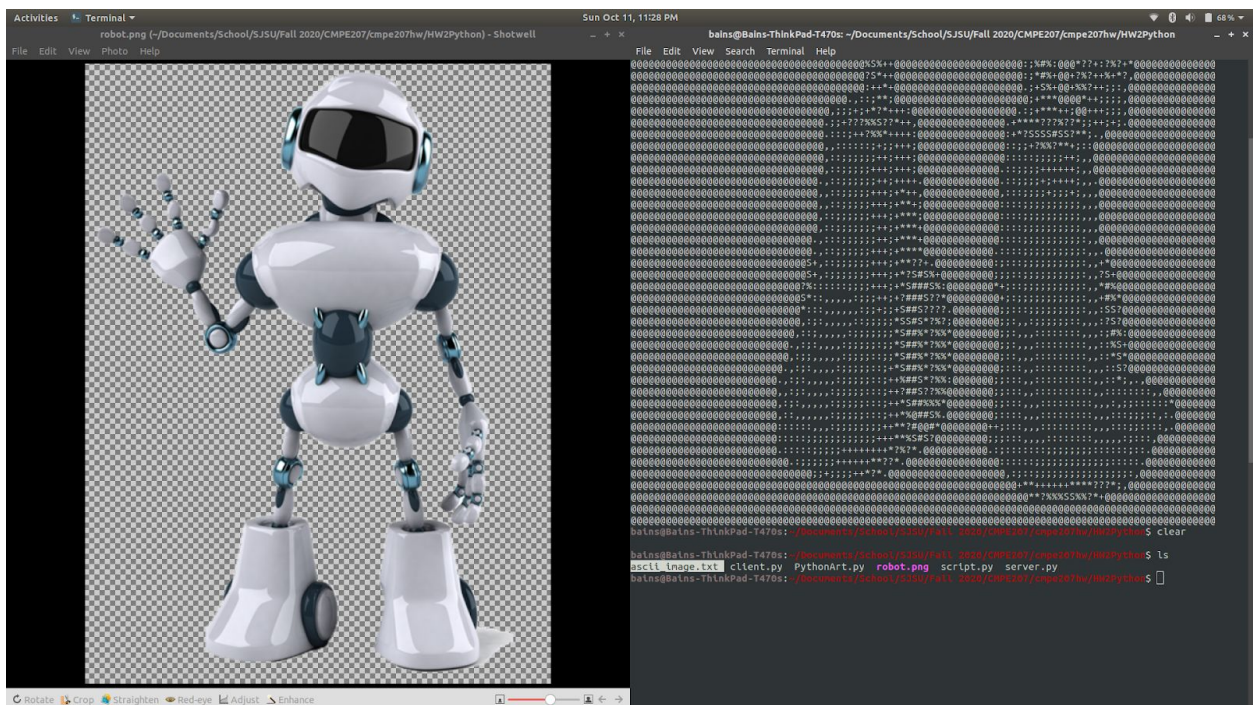
- This screenshot shows the image that i want the server to send on the left side. The right side shows the directory, notice there is not yet an 'ascii_image.txt' file. It also shows running the PythonArt.py script.

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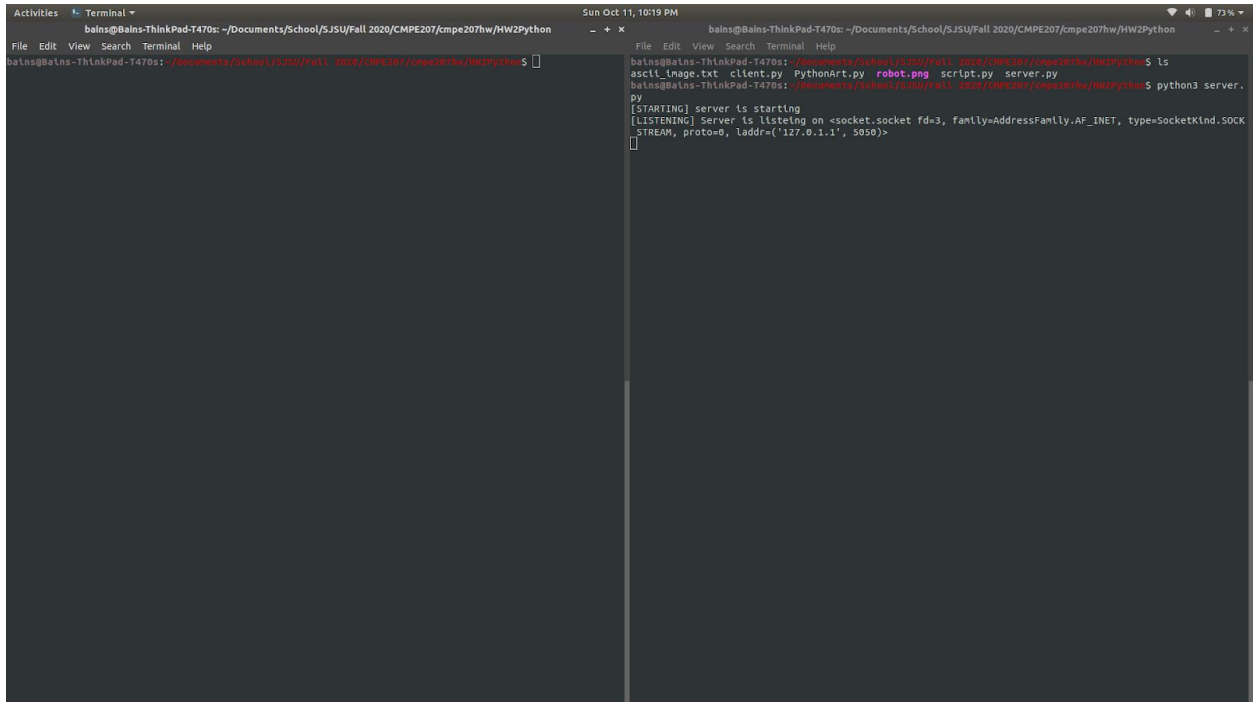
- This screenshot shows after I enter the path of the image



- This screenshot shows the bottom of the ascii art. It also shows the `ascii_image.txt` file now present in the repo after running the PythonArt script.

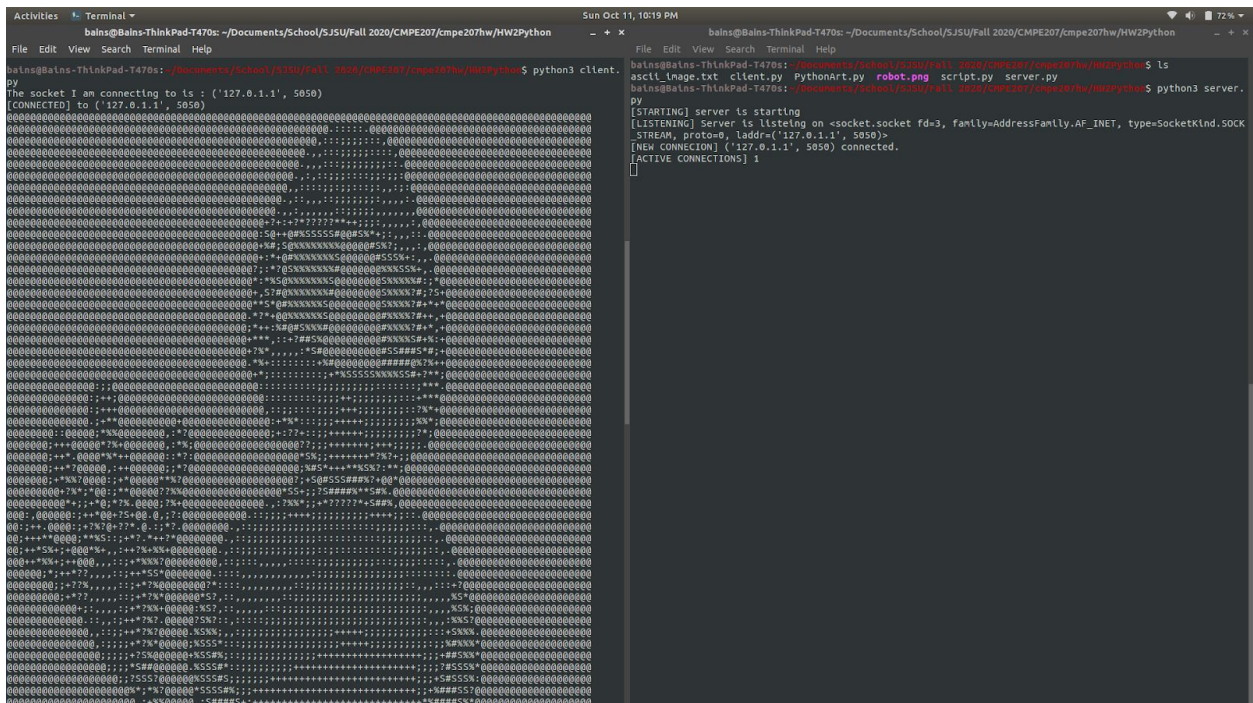
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The screenshot shows two terminal windows side-by-side. The left window is titled 'bains@Bains-ThinkPad-T470s: ~/Documents/School/JSIU/Fall 2020/CMPE207/cmpe207hw/HW2Python' and shows the command 'python3 client.py' being executed. The right window is titled 'bains@Bains-ThinkPad-T470s: ~/Documents/School/JSIU/Fall 2020/CMPE207/cmpe207hw/HW2Python' and shows the command 'python3 server.py' being executed. The server output indicates it is listening on '127.0.1.1', 5050.

- This screenshot shows the right side showing the server running.



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- The screenshot shows what happens when the client connects to the server. The server also shows that the client connected on the right side.

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The image displays two side-by-side terminal windows. The left window shows a terminal with a dark background and a light-colored, pixelated robot character. The right window shows a terminal with a dark background and a light-colored, pixelated robot character. The terminal text in the right window shows a command prompt, a file listing, and a Python script execution.

Left Terminal Window:

- Top bar: Activities Terminal
- Terminal title: bains@Bains-ThinkPad-T470s: ~/Documents/School/5.JSU/Fall 2020/CMPE207/cmpe207hw/HW2Python
- Menu bar: File Edit View Search Terminal Help
- Content: A dark terminal window with a light-colored, pixelated robot character.

Right Terminal Window:

- Top bar: Sun Oct 11, 10:20 PM 72%
- Terminal title: bains@Bains-ThinkPad-T470s: ~/Documents/School/5.JSU/Fall 2020/CMPE207/cmpe207hw/HW2Python
- Menu bar: File Edit View Search Terminal Help
- Content: A dark terminal window with a light-colored, pixelated robot character. The terminal text shows a command prompt, a file listing, and a Python script execution.

Terminal Text (Right Window):

```
bains@Bains-ThinkPad-T470s: ~/Documents/School/5.JSU/Fall 2020/CMPE207/cmpe207hw/HW2Python$ ls
ascl_image.txt  client.py  pythonart.py  robot.png  script.py  server.py
bains@Bains-ThinkPad-T470s: ~/Documents/School/5.JSU/Fall 2020/CMPE207/cmpe207hw/HW2Python$ python3 server.py
[STARTING] server is starting
[LISTENING] server is listening on <socket.socket fd=3, family=AddressFamily.AF_INET, type=SocketKind.SOCK_STREAM, proto=0, laddr=('127.0.1.1', 5050)>
[NEW CONNECTION] ('127.0.1.1', 5050) connected.
[ACTIVE CONNECTIONS] 1
[NEW CONNECTION] ('127.0.1.1', 5050) connected.
[ACTIVE CONNECTIONS] 1
```

- this screenshot just shows the same client code running on a zoomed out terminal to show the full image.