Python Programming, Section 001  
Final Project Proposal  
Dustin Seger – 3/23/18

**Project Title:** The Python Gif Searcher

**Group Members:** Dustin Seger

**Necessary Libraries:**

* Tkinter – Standard - <https://wiki.python.org/moin/TkInter>
  + For displaying the GUI the user will interact with
* urllib – Standard - <https://docs.python.org/3/library/urllib.html>
  + For doing HTTP requests to load the images
* base64 – Standard - <https://docs.python.org/2/library/base64.html>
  + For loading the gifs as raw data from the server rather than from files

**Description:**

The overall vision of this project is to make a simple, lightweight GUI using Tkinter that allows the user to search for gifs. I currently plan to use the public Giphy API (<https://developers.giphy.com/>) to accomplish this. This program will allow for the user to quickly run it and get a gif that they need. With this project format, the only workload on the network should be the gif downloading as opposed to the multitude of images, ads, and metadata that come with gif searching in a web browser. This makes the project ideal for those who have slow internet, are low on time, or simply do not like ads. Some potential features of this include:

* Searching gifs
* Displaying gifs
* Modifying gif speed
* Getting a random gif
* Downloading gifs locally
* Saving favorite gifs to the program for quick access

The main goal of this project is to satisfy all the proposed features in a UI that is attractive and intuitive in design. Personally, it is also a goal to learn how to handle the necessary libraries listed. Although some research was done to figure out what would be required, I am still wholly unfamiliar with the proposed modules. I hope that by the end of the project, I will be able to use and apply these new skills offhand in a real-world setting.