How to Program a GUI Application (with Python Tkinter)- https://www.youtube.com/watch?v=D8-snVfekto

Widgets- Widgets are eventful python objects that have a representation in the browser, often as a control like a slider, textbox, etc.
https://ipywidgets.readthedocs.io/en/latest/examples/Widget%20Basics.html#:~:text=Widgets%20are%20eventful%20python%20objects,a%20slider%2C%20textbox%2C%20etc.

Tkinter- Tkinter is the Python interface to the Tk GUI toolkit shipped with Python.

Tkinter is the standard GUI library for Python. Python when combined with Tkinter provides a fast and easy way to create GUI applications. Tkinter provides a powerful object-oriented interface to the Tk GUI toolkit.

Creating a GUI application using Tkinter is an easy task. All you need to do is perform the following steps –

- Import the *Tkinter* module.
- Create the GUI application main window.
- Add one or more of the above-mentioned widgets to the GUI application.
- Enter the main event loop to take action against each event triggered by the user.

Example:

#!/usr/bin/python

import Tkinter

top = Tkinter.Tk()

Code to add widgets will go here...

top.mainloop()

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https://www.tutorialspoint.com/python/python_gui_programming.htm

Grid vs place vs pack: https://redhuli.io/pack-place-and-grid-in-tkinter/

For opening jpg images in tkinter https://stackoverflow.com/questions/23901168/how-do-i-insert-a-jpeg-image-into-a-python-tkinter-window

Autofocus on entry widget- https://stackoverflow.com/questions/13626406/setting-focus-to-specific-tkinter-entry-widget

Scrollbar in text widget- https://www.python-course.eu/tkinter_text_widget.php

```python
import tkinter as tk

root = tk.Tk()
S = tk.Scrollbar(root)
T = tk.Text(root, height=4, w
idth=50)
S.pack(side=tk.RIGHT, fill=t
k.Y)
T.pack(side=tk.LEFT, fill=tk.
Y)
S.config(command=T.yview)
T.config(yscrollcommand=S.se
t)
quote = """HAMLET: To be, or
not to be--that is the questi
on:
Whether 'tis nobler in the mi
nd to suffer
The slings and arrows of outr
ageous fortune
Or to take arms against a sea
of troubles
And by opposing end them. To
die, to sleep--
No more--and by a sleep to sa
y we end
The heartache, and the thousa
nd natural shocks
That flesh is heir to. 'Tis a
consummation
Devoutly to be wished."""
T.insert(tk.END, quote)
tk.mainloop()
```

How to set text of tkinter text widget with a button: https://www.delftstack.com/howto/python-tkinter/how-to-set-text-of-tkinter-text-widget-by-using-a-button/#:~:text=Tkinter%20Text%20widget%20doesn't,to%20change%20the%20content%20completely.

Message widget- https://www.geeksforgeeks.org/python-tkinter-message/?ref=lbp (multiline label)

Resizable() - https://www.geeksforgeeks.org/resizable-method-in-tkinter-python/?ref=lbp

The more generalized formats are JPEG/JPG and PNG. To open and display with those formats, we need help of ImageTk and Image classes from PIL(photo imaging Library) package.

With the help of PIL(photo imaging Library), we can load images in over 30 formats and convert them to image objects, even base64-encoded GIF files from strings!! https://www.c-sharpcorner.com/blogs/basics-for-displaying-image-in-tkinter-python

Getting the size of an image using PIL https://www.kite.com/python/answers/how-to-get-the-size-of-an-image-with-pil-in-python

API GET and POST requests using Python- https://www.geeksforgeeks.org/get-post-requests-using-python/

Autocomplete using Listbox- https://stackoverflow.com/questions/47839813/python-tkinter-autocomplete-combobox-with-like-search

Before starting, I installed the following libraries – requests, Pillow

pip install requests

pip install Pillow