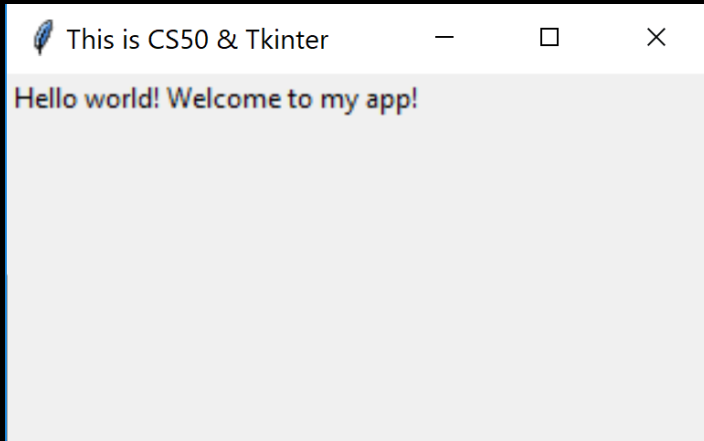


GUI with Python's Tkinter

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<https://github.com/Coder670>



What is Tkinter?

-Light-weight GUI

-Simple GUI

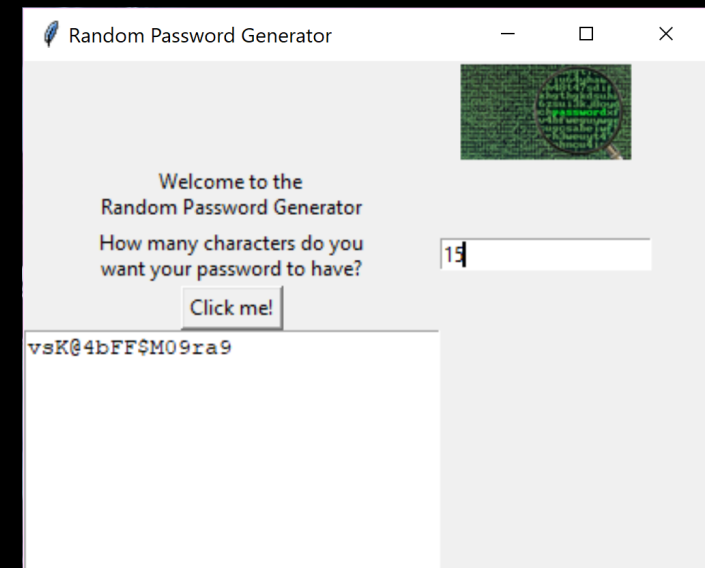
-Great for making programs visual

-Great for simple Python apps

```
$ python random_password_generator.py  
Welcome to the Random Password Generator
```

```
How many characters: 10
```

```
A#Zcje%n9b
```



Objectives

Cover

- Simple GUI building
- Insert entry fields, labels
- Insert buttons
- Displaying results

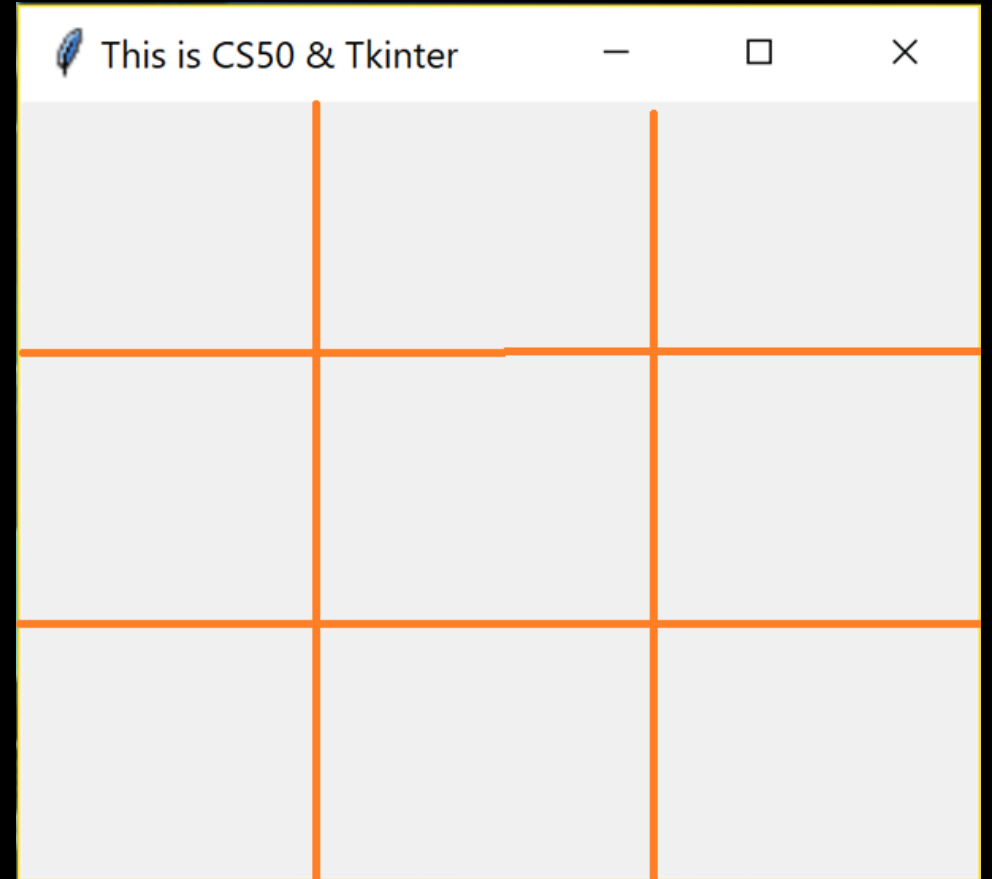
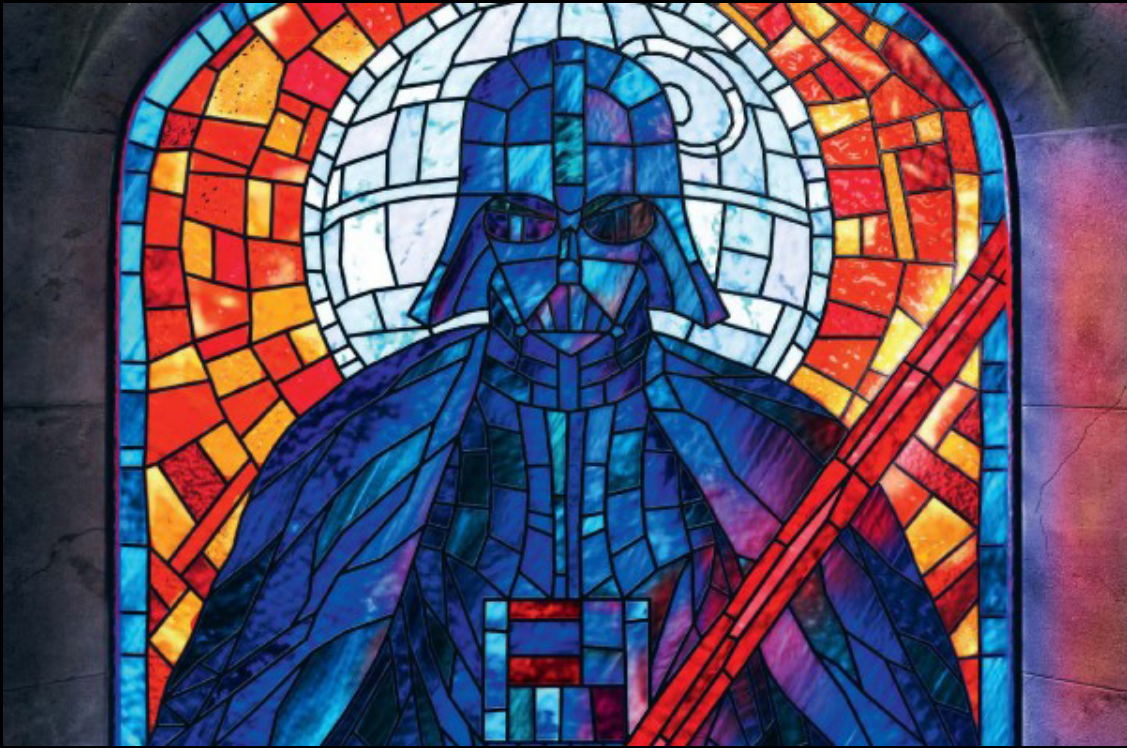
Not Cover

- Advanced methods
- Game making
- Object-oriented programming

Setup

- Can't run on CS50 ide or online ide
- Python needs to be installed on system
<https://www.python.org/downloads/>

```
sudo pip install tkinter
```



`.Tk()`

`.title()`

`.geometry()`

```
.Label(text="", fonts=(font, size))
```

```
.Button(arg1, arg2...)
```

```
.Entry(arg1, arg2...)
```

```
.Text(arg1, arg2...)
```

- 0 Plan out layout of app
- 1 Create the window for the app
 - Add title and geometry
- 2 Declare size Place labels, buttons, entry fields, etc. on the window
 - Use grids to place them
- 3 Place labels, buttons, entry fields, etc on the window
- 4 Connect buttons/entries to one another through functions
- 5 Use `.mainloop()` to run window

<http://effbot.org/tkinterbook/>