Python Development Quick-Start

Make coding easier, better, and faster!

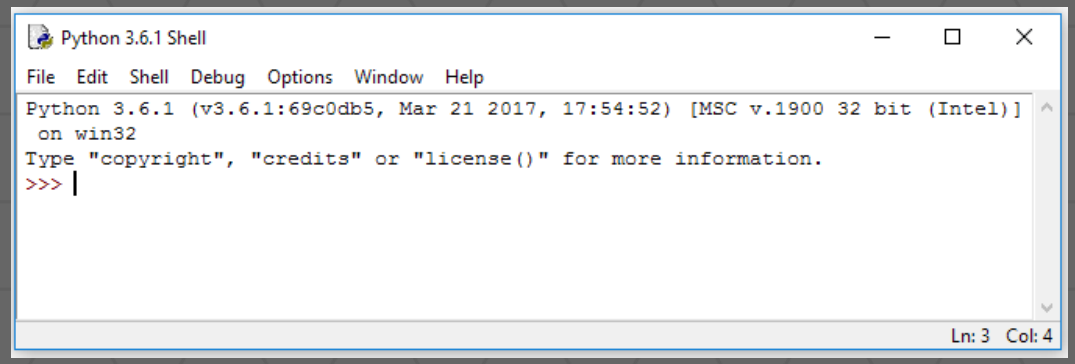
Why Learn Tools?

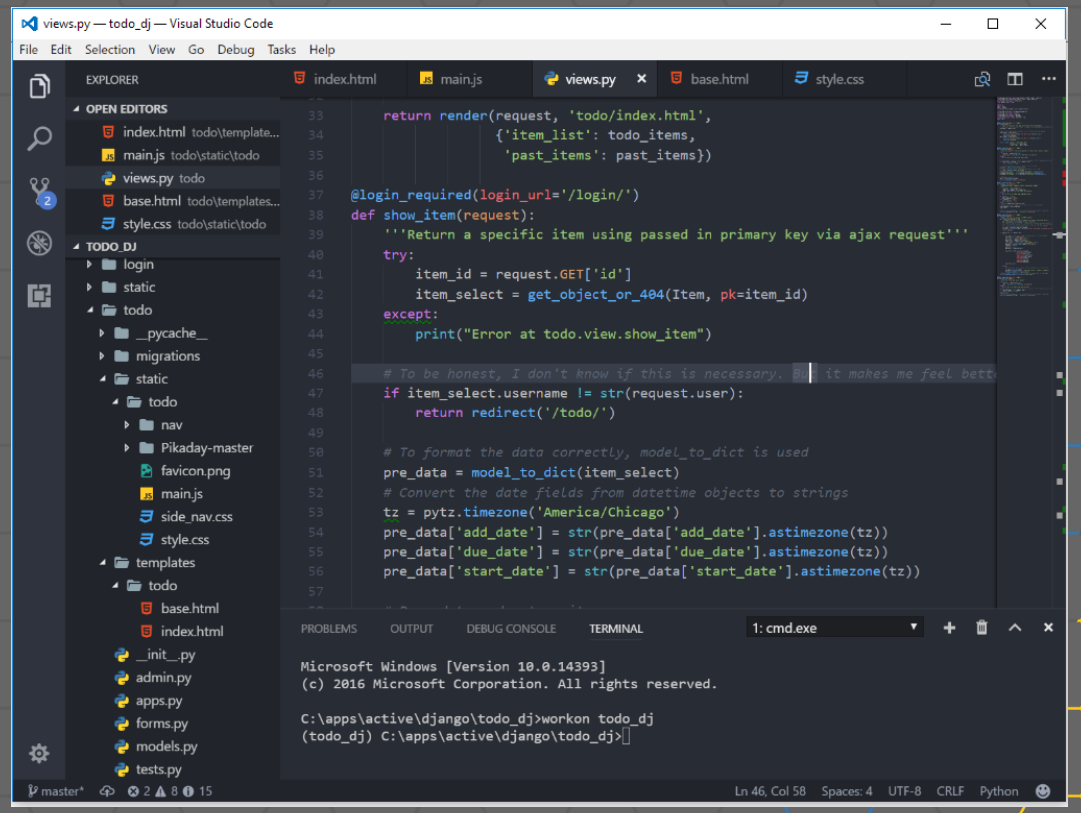
VS

Agenda

The Tools:

- Python IDLE
- Visual Studio Code
- Git & GitHub





Disclaimer

Every developer is different

Find tools that work for you

Hopefully you will be better informed to find the tools you do want.

What is Python?

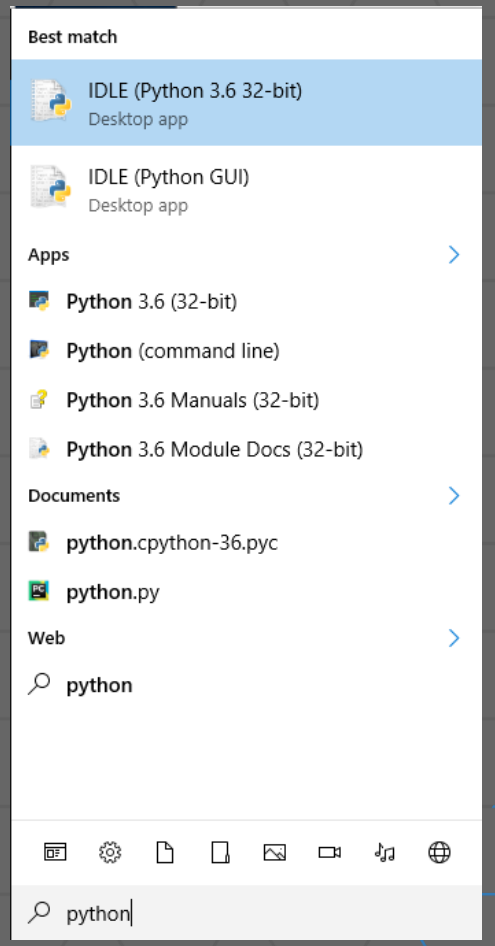
- High level language. Do more, faster
- Nice syntax. Makes coding easier
- Great Community. Google is A+

```python
import random

prompt = "Enter your question: "
question = input(prompt)
response = random.randint(1,4)

if response == 1:
    print("It is certain")
elif response == 2:
    print("Outlook good")
elif response == 3:
    print("You may rely on it")
elif response == 4:
    print("Ask again later")
```

Setup Python

Setup for Windows

- Download at: python.org/downloads/
- Install Python 3.6.2
- Search for “Python” and select IDLE



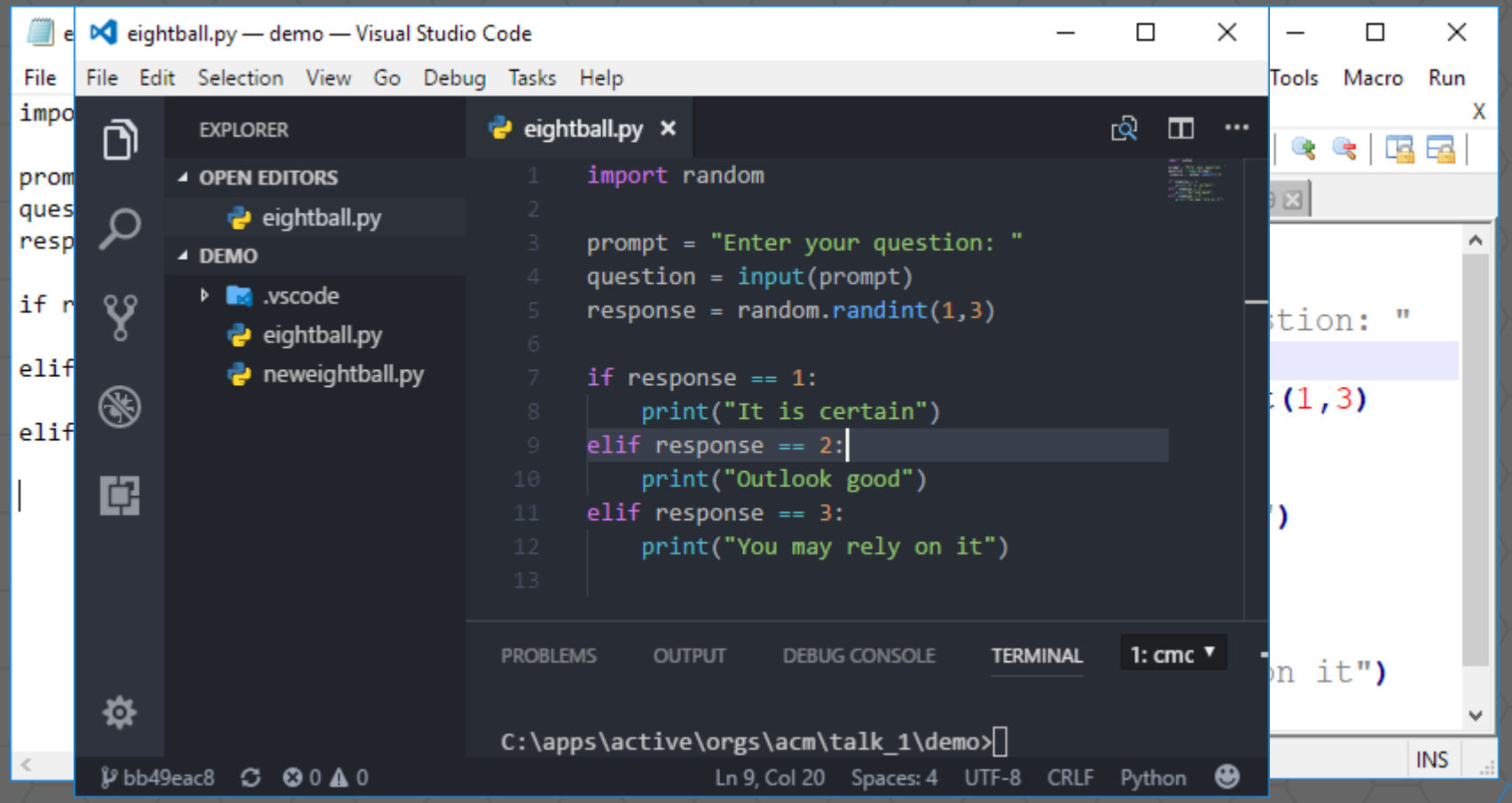
Using Python IDLE

Learn faster – save time
Run code directly and modify easily
Save files and build projects

Lets do a live demo

What is VS Code?

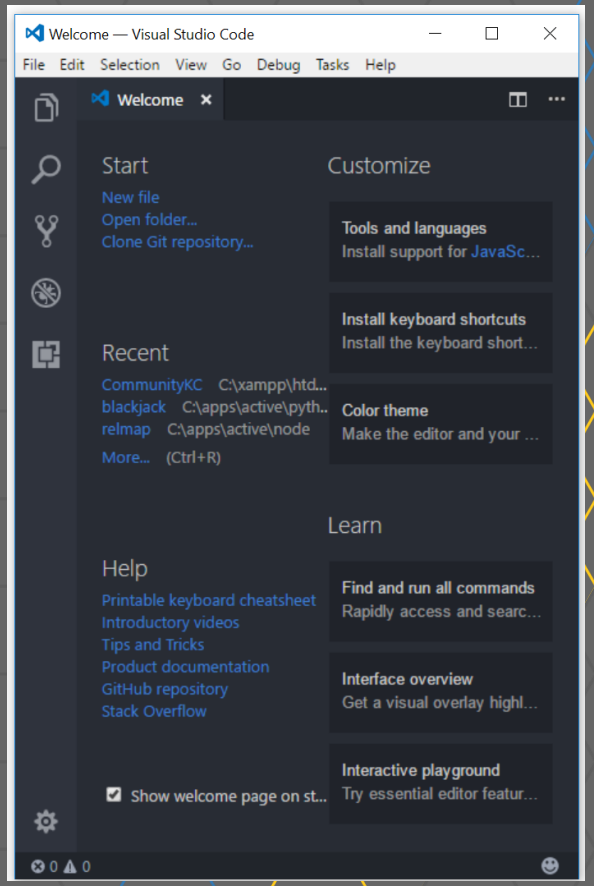
Okay? Great! Better



Setup VS Code

Setup For Windows

- Download at: https://code.visualstudio.com/
- Install VS Code
- Install Python extension
- Optional: Install a theme



Using VS Code

Manage files easily & quickly
Code easier with syntax highlighting
Catch errors faster with linting

Lets do a live demo

Using a Terminal

Before there was the GUI, it was terminal

Run Python code from VS Code

Try: (Use CTRL + C to exit commands)

python eightball.py

python -m idlelib eightball.py

- (Careful: While open, changes to file do not auto update from the VS Code side)

Version Control

Ever done this?

Project_3_App	7/28/2017 2:26 PM	File folder
Project_3_App _REV	4/26/2017 8:15 PM	File folder
Project_3_App_ORG	5/1/2017 5:50 PM	File folder
Project_3_App_RE5_FINAL	5/1/2017 4:50 PM	File folder
Project_3_App_REV2	4/28/2017 5:02 PM	File folder
Project_3_App_REV3	4/30/2017 2:12 PM	File folder

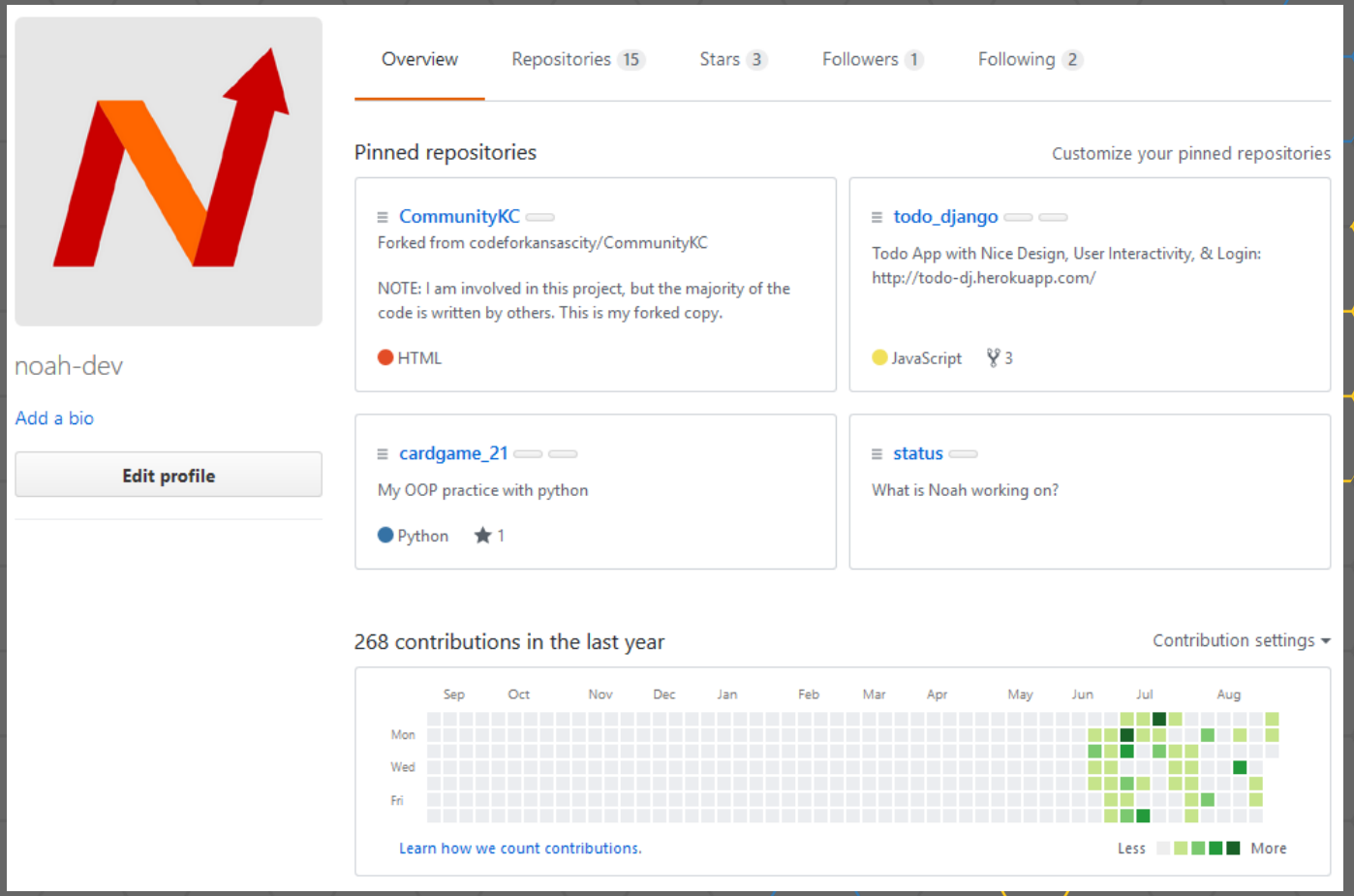
Is there a better, easier, faster way?

What is Git & GitHub?

Backup your code, locally & in the cloud

Share your code with others

Show off your awesome skills



Setup a Git Repo

What I am about to show you might be scary...

Don’t worry: it scared me too

Exposure will be beneficial.

No pressure. Something to learn later on.

Setup a Git Repo

From terminal, do...

```
git init
git add –A
git commit –m $message
git add remote add origin $repo
git push origin master
```

Alternatives

Python IDE

- PyCharm
- Visual Studio
- PyDev
- And More

Editors

- Atom
- Sublime Text
- Notepad++
- And More

Source Control

- Mercurial
- SVN
- Bitbucket
- And More

Coming up…

Build a GUI with TkInter!

- Terminal is nice, but what about buttons?

Send a Tweet with Python!

- Learn what an API is, and use it

Python Flask – Building a Web App

- Learn how Web Apps work, and build one