



# Python Development Quick-Start

Make coding  
easier, better,  
and faster!



# Why Learn Tools?



VS





# Agenda

## The Tools:

- Python IDLE
- Visual Studio Code
- Git & GitHub

A screenshot of a Python 3.6.1 Shell window. The window has a menu bar with 'File', 'Edit', 'Shell', 'Debug', 'Options', 'Window', and 'Help'. The main text area shows the Python version and build information: 'Python 3.6.1 (v3.6.1:69c0db5, Mar 21 2017, 17:54:52) [MSC v.1900 32 bit (Intel)] on win32'. It also displays the prompt 'Type "copyright", "credits" or "license()" for more information.' and the interactive prompt '>>>>'.

A screenshot of the Visual Studio Code editor interface. The Explorer panel on the left shows a project structure for 'todo\_dj' with folders like 'login', 'static', 'todo', and 'templates'. The main editor area displays a Python file named 'views.py' with code for a Django view. The code includes a function 'show\_item' that uses 'render' to display a template with 'todo\_items' and 'past\_items'. It also features a login requirement decorator and a redirect logic. The bottom panel shows the 'TERMINAL' with the command prompt 'C:\apps\active\django\todo\_dj>workon todo\_dj' and the output '(todo\_dj) C:\apps\active\django\todo\_dj>'. The status bar at the bottom indicates 'Ln 46, Col 58'.



# 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+

```
import random

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

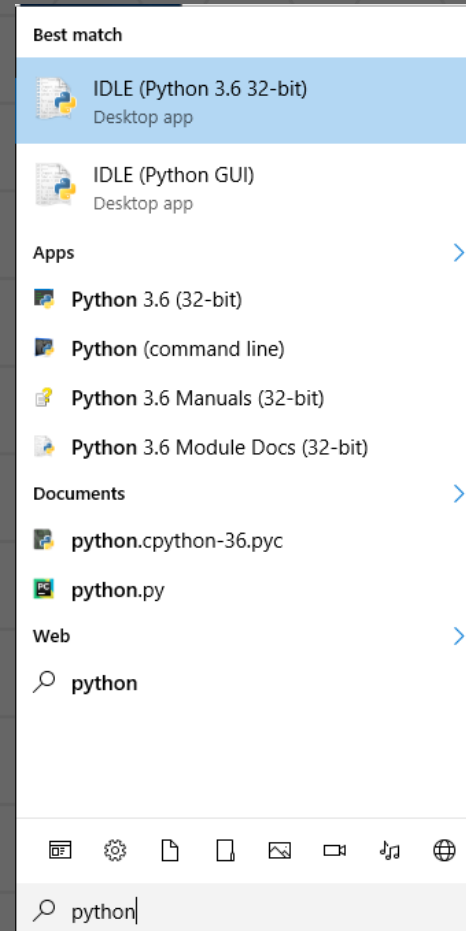
if response == 1:
    print("It is certain")
elif response == 2:
    print("Outlook good")
elif response == 3:
    print("You may rely on it")
elif response == 4:
    print("Ask again later")
```



# Setup Python

## Setup for Windows

- Download at: [python.org/downloads/](https://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

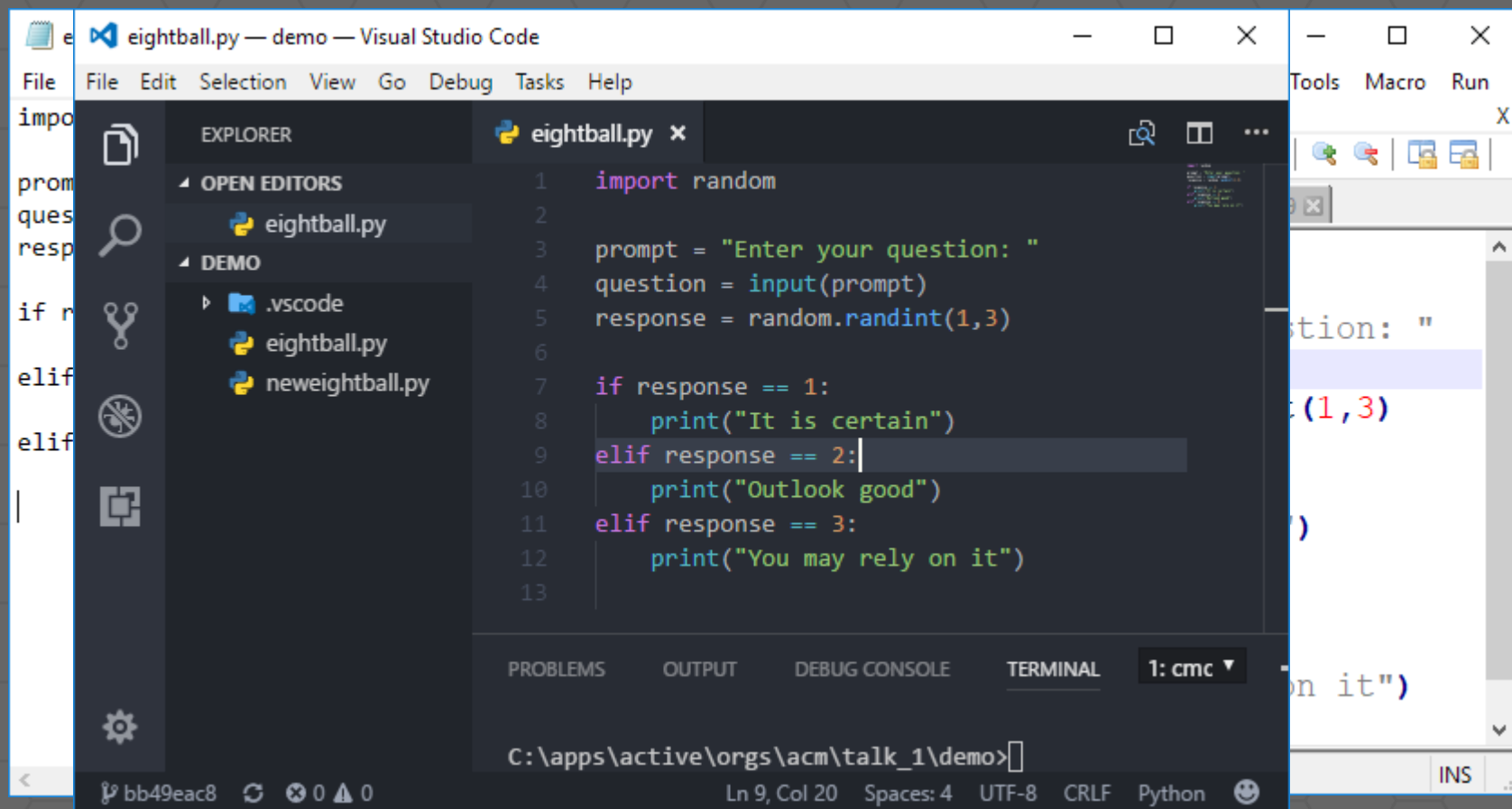
Lets do a live demo





# What is VS Code?

Okay? Great! Better



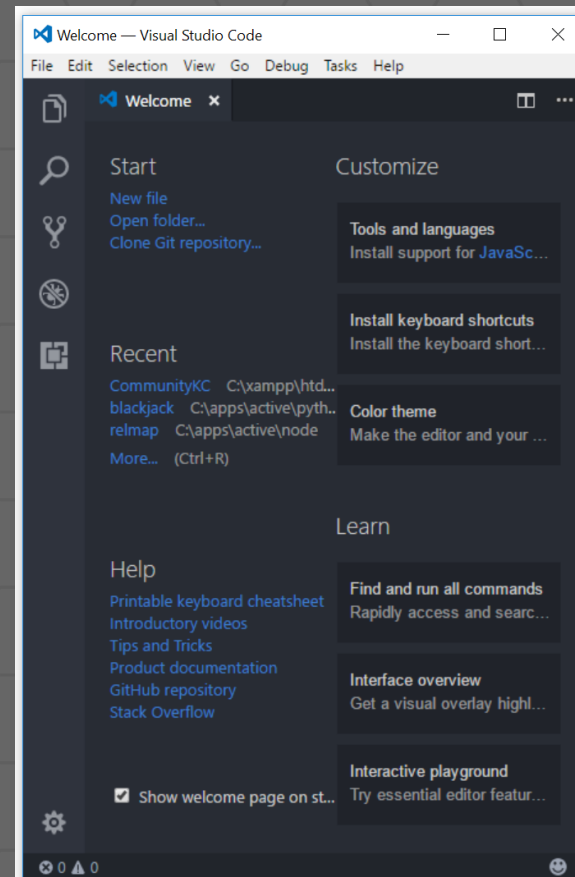




# Setup VS Code

## 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_REV_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

The screenshot shows a GitHub profile for a user named 'noah-dev'. The profile includes a custom avatar with a stylized 'N' and an upward-pointing arrow. The bio is empty, and there is an 'Add a bio' link. The 'Edit profile' button is visible. The 'Overview' tab is selected, showing statistics: 15 repositories, 3 stars, 1 follower, and 2 following. The 'Pinned repositories' section displays three projects: 'CommunityKC' (a fork of codeforkkanscity/CommunityKC, noted as a forked copy with HTML tags), 'cardgame\_21' (a Python OOP practice project with 1 star), and 'todo\_django' (a Django-based todo app with 3 stars). The '268 contributions in the last year' section features a heatmap showing activity from September to August, with a legend indicating the intensity of contributions (Less to More).



# 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