**INTRODUCTION**

1. **Course Outline**

Python Basics

Python Basics 2

Developer Environments: Terminal, Code Editors, IDEs, Notebooks

Advanced Python

Careers

Scripting in Python

Data Scrapping  
Automation: Selenium

Web Development

ML & Data Science

1. **Join Our Online Classroom!**

[*ZeroToMastery (discord.com)*](https://discord.com/invite/9KxUUxt7Vd)

1. **Exercise: Meet The Community**

**PYTHON INTRODUCTION**

1. **What Is a Programming Language**Set of instructions written in a high-level language which can be translated to machine language by compiler/interpreter.

Assembly language: Close to machine language.  
Python: Close to English.  
Compiler/Interpreter: Translator between High level language and Machine language.  
Compiler: Translates entire code all at once and creates a Binary file.  
Interpreter: Translates codes one line at a time and creates a Byte code which runs on a Cpython Virtual Machine.

1. **Python Interpreter**[*https://www.python.org/*](https://www.python.org/) : cPython  
   Jython (Java), PyPy (Python), IronPython (DotNet)
2. **How To Run Python Code**[*https://replit.com/*](https://replit.com/)[*https://glot.io/*](https://glot.io/)
3. **Note Jumping To Developer Environment**
4. **Our First Python Program**name = input(‘What is your name?\n’)  
   print(‘Hello ’ + name)
5. **Python 2 Vs Python 3**Python (2) was created by “Guido Van Rossum” in 1991. Name was coined from “Monty Python’s Flying Circus”, a comedy series from the 1970s.  
   In 2008, they created Python 3. Some of the features of Python 2 doesn’t work in Python 3 due to some breaking changes.  
     
   [*https://www.youtube.com/watch?v=J0Aq44Pze-w*](https://www.youtube.com/watch?v=J0Aq44Pze-w)[*https://sebastianraschka.com/Articles/2014\_python\_2\_3\_key\_diff.html*](https://sebastianraschka.com/Articles/2014_python_2_3_key_diff.html)[*https://www.geeksforgeeks.org/important-differences-between-python-2-x-and-python-3-x-with-examples/*](https://www.geeksforgeeks.org/important-differences-between-python-2-x-and-python-3-x-with-examples/)
6. **Why So Many Languages**Every Languages have their own strengths and trade-offs.  
   Some languages are fast in executing but slow in writing, like C/C++. On the other hand some are fast in writing and slow in executing, like Python.
7. **Exercise How Does Python Work**  
   Teach someone how fundamentals of Python, how it works.
8. **ZTM Python Cheat Sheet**[*https://github.com/aneagoie/ztm-python-cheat-sheet*](https://github.com/aneagoie/ztm-python-cheat-sheet)

**Bonus Extra Bits**

1. **Quick Note Upcoming Videos**

[***The Complete Web Developer: Zero to Mastery***](https://www.udemy.com/course/the-complete-web-developer-zero-to-mastery/?referralCode=FFF295AECF3594CE440E)

1. **CWD Git + Github**

GitHub is used for source control. It can help to counter merge conflict problem when more than one developer is working on same project.  
  
[*https://git-scm.com/downloads*](https://git-scm.com/downloads)

# Git Bash:

git clone <repository path> #clone repository to local

git status #get status of local files

git add <file name> #add files to commit list

git add . #add all files to commit list

git commit –m“<message>” #commit files to GitHub

git push #finish commit to GitHub

git pull #grab latest commit from GitHub  
git log #to get detailed commit history

git log –oneline #to get brief commit history  
git log graph #to get the graph of branches

**Bibliography**

[*https://zerotomastery.io/community/coding-challenges/*](https://zerotomastery.io/community/coding-challenges/)

[*https://zerotomastery.io/blog/*](https://zerotomastery.io/blog/)

[*https://zerotomastery.io/resources/*](https://zerotomastery.io/resources/)

[*https://zerotomastery.io/blog/?tag=PM&utm\_source=udemy&utm\_medium=coursecontent#monthly*](https://zerotomastery.io/blog/?tag=PM&utm_source=udemy&utm_medium=coursecontent#monthly)

[*https://zerotomastery.io/blog/?utm\_source=udemy&utm\_medium=coursecontent#monthly*](https://zerotomastery.io/blog/?utm_source=udemy&utm_medium=coursecontent#monthly)

[*https://www.linkedin.com/groups/12121940/*](https://www.linkedin.com/groups/12121940/)

[*https://www.linkedin.com/school/64685953/*](https://www.linkedin.com/school/64685953/)

**Rough Work**

* + - 1. **Useful Terminal Commands**  
         pwdls  
         cd   
         cp  
         mv  
         rm  
         cat  
         man  
         mkdir  
         rmdir  
         echo  
         touch