

# Python Chapter 1

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## Before getting started

We will be going over the basics of python and interviewing in python in this course. Here are some great resources to get started.

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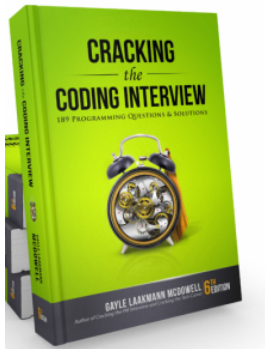
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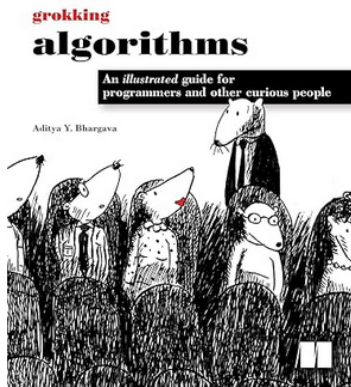


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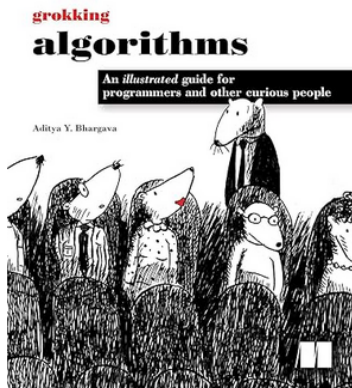
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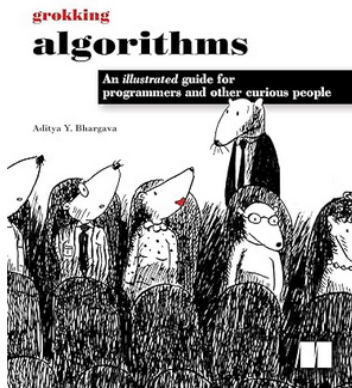
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- ▶ <https://github.com/zeaktorres/WSU-Python-Workshop-2024/>
  - ▶ Where the notes will be stored

# Environment setup

Here are the basic steps to running python.

On a Windows PC you will download the exe:  
<https://www.python.org/downloads/>.

On Linux use the appropriate package manager. The schools Linux lab uses X so you will use "sudo ....", however they should have python already installed.

On Mac, idk. If you have a Mac and are having trouble running python let me know, I will be able to help you

# IDE?

Well this is the more... unique part? Essentially you can choose whatever editor you want. You don't even have to use an IDE, you can edit python in notepad++! Then, when you want to run the SCRIPT, simply run "python SCRIPT" in the terminal.

1. Python's own IDE, yeah probably don't use this one
2. VSCode, a very popular text editor in electron. Great for industry practice
3. Pycharm, I don't have much experience with pycharm but I've heard great things if you want to give it a shot
4. Neovim/Vim, I personally use vim/neovim because I hate myself

# Variables

Here we will go into some basic examples of variables in python.  
First, variables should be lowercase

Also, variables are not typed like in C or C++ since python is a dynamically typed language. Meaning the variables are determined at runtime

1. `x = 5`
2. `y = 10`
3. `print(x + y)`

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# Variables and Concatenation

"In formal language theory and computer programming, string concatenation is the operation of joining character strings end-to-end" - Wikipedia

```
IE: print("Hello" + "World")
```

## Variables Exercise

Write a python program which prints a users mpg. You can take in input in python like the following:

```
miles_driven = input("Enter the number of gallons")
```

Note: These exercises are purposely vague as are interview questions to get you to ask important questions

Note: Sometimes interviewers will give you hints if you are struggling but some interviewers will take taking a hint as a negative