

Python Chapter 1

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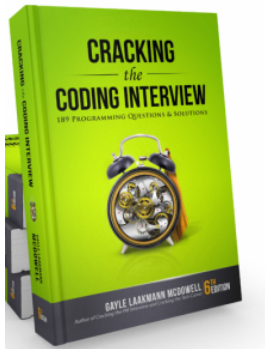
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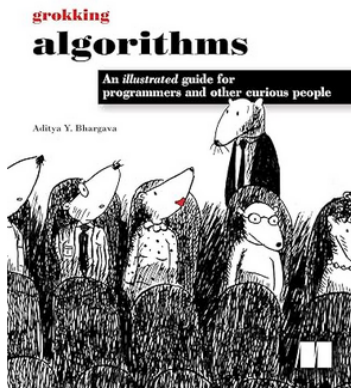


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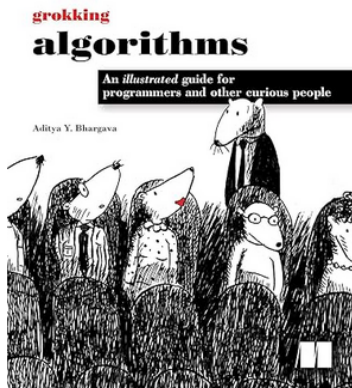
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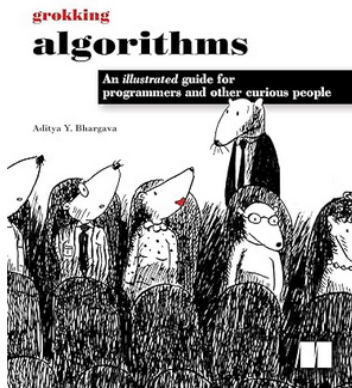
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- ▶ <https://github.com/zeaktorres/WSU-Python-Workshop-2024/>

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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 on the rise.
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