

Dictionaries



- Dictionaries are similar to a list data structure, however each element will have a "key" value associated with it
- Declared using curly brackets:

- Keys can be anything, and are immutable
 - Side note: lists are mutable, strings are immutable
- Values can be any data type

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Dictionaries

You can use assignment for dictionaries
 dict_a = {} makes an empty dictionary
 or dict_b = () also makes an empty dictionary

Assigning values to dictionaries:

dict_b[key] = value Jniversity

For Example:

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$$dict_b[2] = "b"$$

$$\rightarrow$$
 dict_b = {1:"a", 2:"b", 3:"c"}

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Dictionaries

Accessing Values:

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- "Name of dictionary variable" [KEY GOES HERE]
- .get() function allows you to also access a value if you know what the key you need is arguette

- .pop() will do the same thing as .get()
 - Will return a value if you give it a key

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>>> dict[2] = "t" >>> print(dict) {1: 'a', 2: 't', 3: 'c'}

>>>



File Reading

- Another commonly used operation in computer science is file reading, editing, or creating
- The easiest files we will try to manipulate are .txt files or simple text only files. Property of
- To do this you need to be able to access the path to a file on your machine

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- Absolute Path: Navigation from the root of the file system
- Relative Path: Navigation from the directory of a file
 - Using the relative path is easiest

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• This means, storing the file you want to manipulate in the same folder/directory that you store your code

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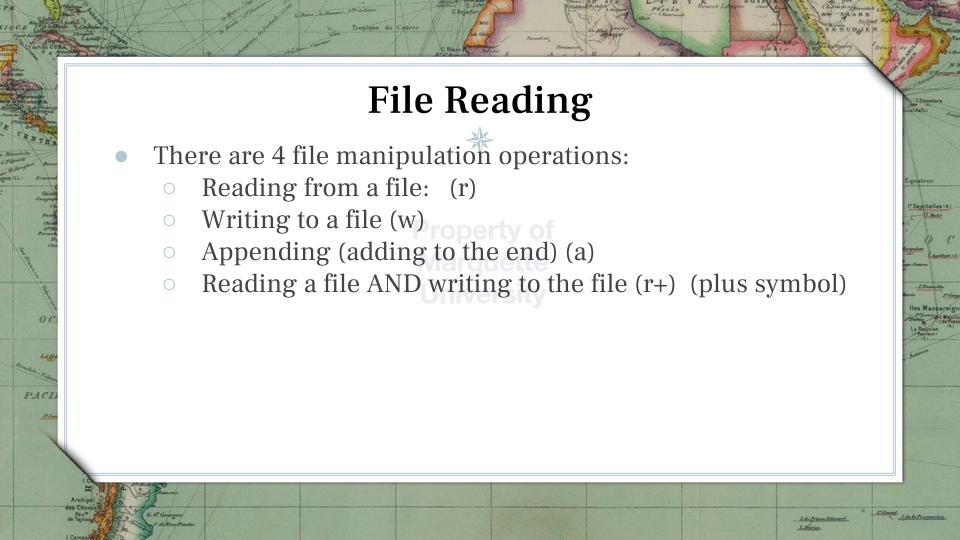
Absolute Path on Windows Machine:

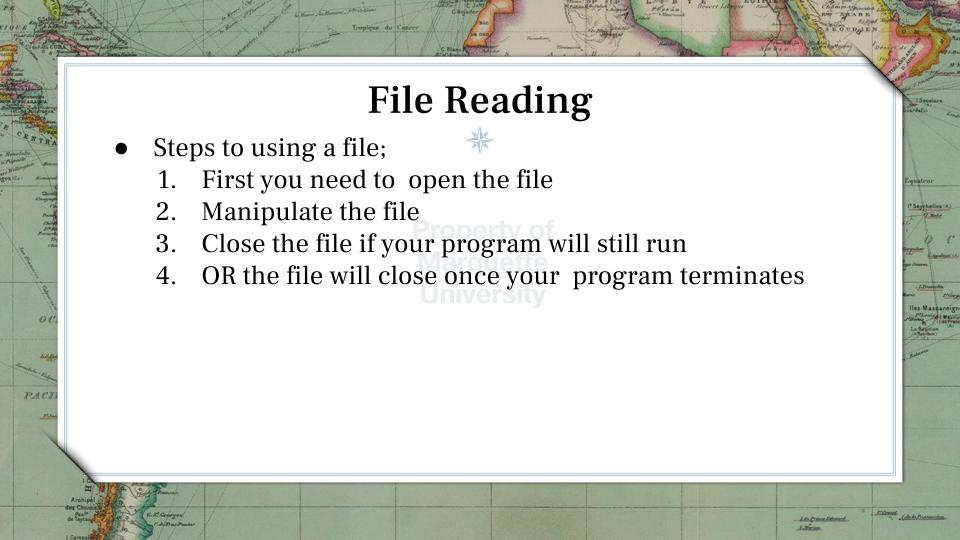
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c:\\users\\ktooher\\documents\\Python\\sample.py

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File Reading

• Two ways to open a file:

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1. Assign the file Object to a variable

```
file1 = open("data.txt", r)
```

$$file3 = open("data.txt", r+)$$
 $file4 = ("data.txt", a)$

2. You define the file name at the end of this line of code: with open("data.txt", "r") as file1:

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