



06/12/2020

Gloria Joseph

has successfully completed

Python Functions, Files, and Dictionaries

an online non-credit course authorized by University of Michigan and offered through Coursera

Three handwritten signatures in black ink, stacked vertically. The first signature is 'Paul Resnick', the second is 'Stephen Oney', and the third is 'Jaclyn Cohen'.

Paul Resnick
Stephen Oney
Jaclyn Cohen

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Python Functions, Files, and Dictionaries

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About this Course

This course introduces the dictionary data structure and user-defined functions. You'll learn about local and global variables, optional and keyword parameter-passing, named functions and lambda expressions. You'll also learn about Python's sorted function and how to control the order in which it sorts by passing in another function as an input. For your final project, you'll read in simulated social media data from a file, compute sentiment scores, and write out .csv

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Syllabus - What you will learn from this course

WEEK

1



6 hours to complete

Files and CSV Output

In week one the video lectures and the Runestone textbook will introduce you to the idea of incorporating files into your programs as an additional source of data. You will learn how to read from a file, write to a file, and how to work with the .csv data format.



14 videos , 14 readings, 3 quizzes [SEE ALL](#)

WEEK

2



6 hours to complete

Dictionaries and Dictionary Accumulation

WEEK

3



8 hours to complete

Functions and Tuples

In week three you will be introduced to the construction of functions. Up to this point, you have used functions in the programs before, but have not had a chance to write your own functions, including how to define a function, how to incorporate parameters, how to return data from a function, the local or global scope of variables, and potential side

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16 videos , 19 readings, 4 quizzes [SEE ALL](#)

WEEK

4



6 hours to complete

More Iteration and Advanced Functions

In week four the video lectures and the Runestone textbook will outline a more advanced iteration mechanism, the while loop. You will be introduced to using it when getting feedback from users, as well as applying it to the turtle module to draw images. Additionally, you will also be exposed to more advanced function concepts such as the idea of parameters being optional, not required, and anonymous functions using lambda.
