MORE PROSAICALLY

- You learn basic Python.

- You learn some basic principles of Computer Science.

- Enough to get you ready to do some Data Science.

IN MORE DETAIL

1. Introduction
    1. Overall goals and structure of course
    2. Introduction to algorithms
    3. Languages, types, variables
    4. The python console
2. Control flow
    1. Basic types in Python
    2. Comparison operations
    3. Branching
    4. while, for loops
    5. Break

3. Strings, simple algos
    1. String indexing and slicing
    2. string mutability
    3. Exhaustive search
    4. Bisection search

4. Functions, tuples, lists
    1. Functions, abstraction, decomposition, reuse
    2. functions in Python; variable scope, functions as arguments, visibilty
    3. Tuples; defining, immutability, unpacking, operations
    4. Lists; defining, mutability, indexing, iterating, operations