

# Intro To Python

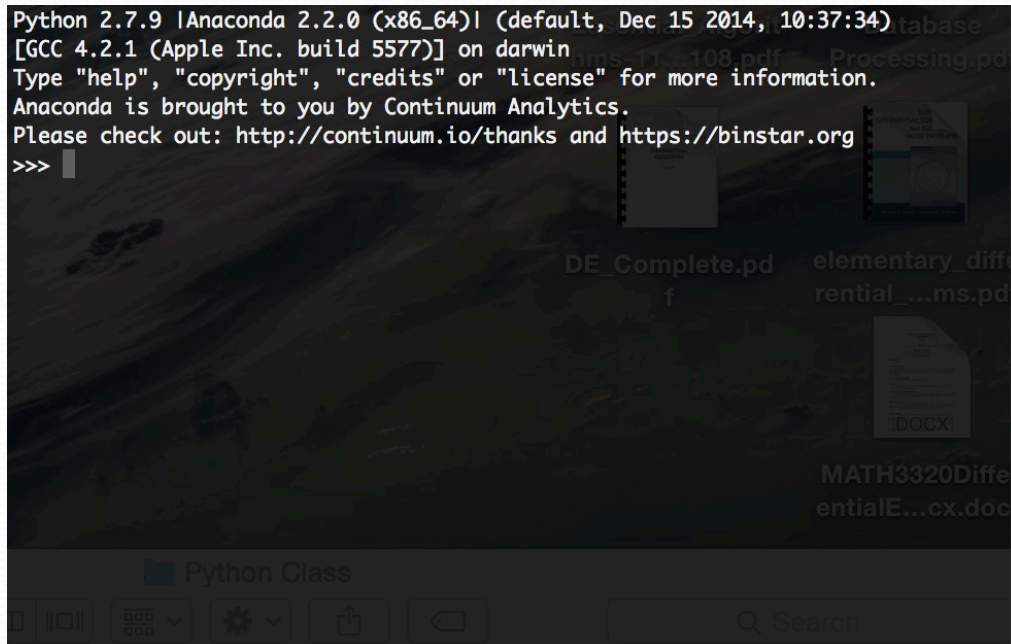
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# Outlines of the Day

- Showing the input
- How to make variables
- Types of data
- Importance of Indentation
- Comments
- A little Math

# Python Interpreter

- Python comes with a program called IDLE, which we use to write Python programs.
- It's compiled version, means that you see the results immediately.
- This “>>>” means computer is ready for your command



The image shows a screenshot of a Python interpreter window. The title bar at the top reads "Python 2.7.9 |Anaconda 2.2.0 (x86\_64)| (default, Dec 15 2014, 10:37:34)". The main text area contains the following information: "[GCC 4.2.1 (Apple Inc. build 5577)] on darwin", "Type 'help', 'copyright', 'credits' or 'license' for more information.", "Anaconda is brought to you by Continuum Analytics.", and "Please check out: <http://continuum.io/thanks> and <https://binstar.org>". Below this, the prompt ">>>" is visible with a cursor. The background of the window shows a blurred view of a desktop with various files and folders, including "DE\_Complete.pdf", "elementary\_differential...ms.pdf", and "MATH3320DifferentialE...cx.docx". At the bottom of the window, there is a toolbar with icons for file operations and a search bar.

# Printing Stuff on the Screen

- First thing about the syntax is printing outputs into screen, because we would like to let user know about things.

*print "Hello, World!"* does the job for us.

- it is very easy.
- Let's discover what we can print out the screen using that sample syntax rule.
- Hands-on activity: 1

# Python Variables

- Variables are data storages.

*name = "Enes"*

- A Python variable is a name used to identify a value, function, class, module or other object.
- An variable starts with a letter A to Z or a to z or an underscore (\_) followed by zero or more letters, underscores and digits (0 to 9).
- Python does not allow punctuation characters such as @, \$, and % within variables
- Tea and tea are different variables. So, uppercase, lowercase matters.

# Types of Data

- There are 5 standard data types of values stores in the variables.
  - Numbers
  - Strings
  - List (Learn in second week)
  - Tuple (Learn in third week)
  - Dictionary (Learn in third week)
- Hands-on activity: 2

# Importance of space

- Python provides no braces to indicate blocks of code for class and function definitions or flow control.
- Blocks of code are denoted by line indentation, which is rigidly enforced.

# Comments

- A hash sign (#) that is not inside a string literal begins a comment.

```
>>> # Python ignores this sentence because of the # symbol.
```

- The # symbol does not have to be the first character on the line; it can appear at the end of a statement:

```
>>> (212 - 32) * 5 / 9 # Convert 212 degrees Fahrenheit to Celsius.
```

- Comments are for humans to read, not effective for syntax.



# Basic Calculations

- Python can be used as basic calculator.
- It has basic math operations built-in.
- Hands-on activity: 3

# To Do

- Go to GitHub page of the course and open week1 then day2.
- Create a repository called: StarSummer\_Python\_<yourname>
- Solve the problem1 and problem2.
  - Instructions are stated in README section (Scroll down you will see.)
- Then push your results into your repository.