# Introduction to Fyurus

TECH LECTURE JULY 25, 2017

# What is Python?

- high level programming language
- emphasizes code readability
- great first coding language
- large standard library and many third party packages





# Philosophy

- Beautiful is better than ugly
- Explicit is better than implicit
- Simple is better than complex
- Complex is better than complicated
- Readability counts





# **Installing Python**

- use Python shell
- IDE = integrated
  development environment
- repl.it



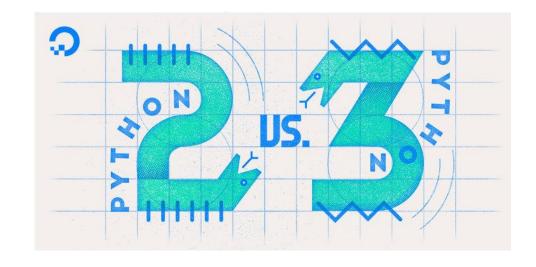






# Python 2 vs Python 3

- \_\_future\_\_
- print vs print()
- integer division → float division
  - 2.0: 3/2 = 1, 3/2 = 1
  - 3.0: 3 / 2 = 1.5, 3 / 2 = 1







#### **Topics**

- Variables and Data Types
- Lists
- For loops
- if Statements
- Dictionaries
- User Input and While loops
- Functions
- Classes



