

# Python: Beyond the Basics

Prerequisites

Austin Bingham  
🐦 @austin\_bingham  
austin@sixty-north.com



Presenter

Robert Smallshire  
🐦 @robsmallshire  
rob@sixty-north.com



**pluralsight**   
hardcore dev and IT training

Python 101



Python Fundamentals – Online Training Course for Developers

pluralsight.com/training/Courses/Description/python-fundamentals

Reader

Pluralsight

Digital-Tutors

INDIVIDUALS

BUSINESS

ACADEMIC

FREE TRIAL

BLOG

SUPPORT

robert-small...

Search the library


Full Library

Categories

Authors

Popular

New Releases



Python

## Python Fundamentals

Python Fundamentals gets you started with Python, a dynamic language popular for web development, big data, science and scripting.

g+

21

Tweet

15

Like

Share

70

in

Share

15

Table of Contents

Description

Exercise Files


Assessment

Discussion

Python Fundamentals gets you started with Python, a dynamic language popular for web development, big data, science and scripting. What's so great about Python? Python is powerful. The Python language is expressive and productive, it comes with a great standard library, and it's the center of a huge universe of wonderful third-party libraries. With Python you can build everything from simple scripts to complex applications, you can do it quickly, and you can do it with fewer lines of code than you might think possible. But for many people those reasons take back-seat to something more important: Python is fun! Python's readable style, quick edit-and-run development cycle, and "batteries included" philosophy mean that you can sit down and enjoy writing code rather than fighting compilers and thorny syntax. As your experiments become prototypes and your prototypes become products, Python makes the experience of writing software not just easier but truly enjoyable. In the words of Randall Munroe, "Come join us! Programming is fun again!"


Feedback & support

Authored by



Austin Bingham

Austin is a founding director of Sixty North, a software consulting, training, and application development company. He's a native of Texas but currently lives in Norway where he writes software, runs a local software interest group, and presents and teaches whenever he can.



Robert Smallshire

Robert Smallshire is a founding director of Sixty North, a software product and consulting business in based in Norway. He has held several senior software architecture and technical management roles, and he is a regular conference speaker. Python is his weapon of choice.

Thursday, 5 June, 14



Prerequisite

# Working **Python** environment



Prerequisite

# Access to a **REPL**



Prerequisite

Defining **functions**

Passing **arguments**

**Returning** values



Prerequisite

# Creating, importing and executing **modules**



## Built-in **types**

`int`

`list`

`float`

`dict`

`str`

`set`





Prerequisite

# Basic Python object model



Prerequisite

# Raising and handling **exceptions**



Prerequisite

# Iterables and iterators



Prerequisite

# Classes with methods



Prerequisite

# Reading and writing text and binary **files**





Prerequisite

Unit-testing

**Debugging**

Deployment



# Terminology: **special methods**

**\_\_<method name>\_\_**

**"dunder"**

**double underscore**



# Terminology: special methods

`__len__`

**“dunder-len”**





# python™ – Beyond the Basics