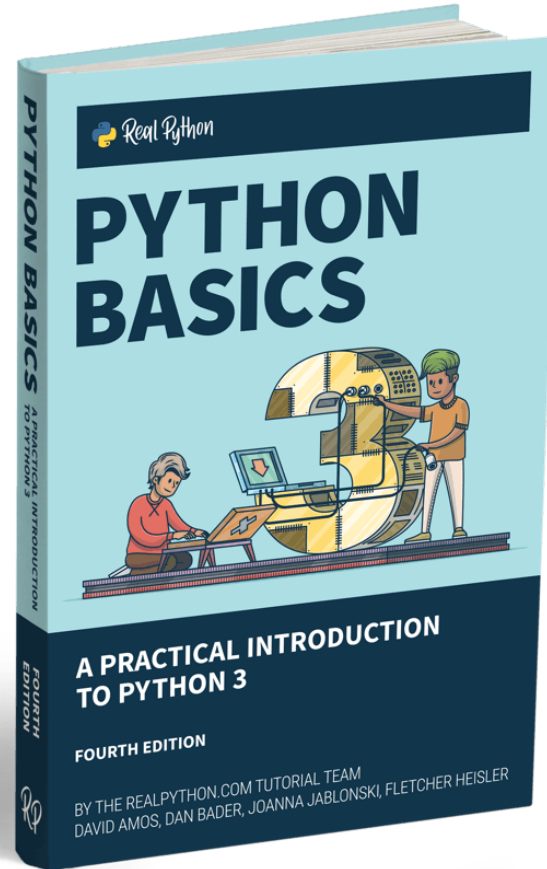


# Python Basics: Setting Up Python





## What will you learn in this course?

1. How to download and install Python on various operating systems:
  - Windows
  - macOS
  - Ubuntu Linux
2. How to open **IDLE**, Python's **I**ntegrated **D**evelopment and **L**earning **E**nvironment

<http://pythonbasicsbook.com>



# Who is This Course For?

- This course is focused on *learning* Python and is best for:
  -  Students
  -  Self learners
  -  Absolute beginners
- This course is *not* intended for:
  -  Professional developers
  - **Note:** Check out Real Python's Python 3 Installation & Setup Guide

# How to Watch This Course

- Watch the lesson for your operating system
- Feel free to watch the other lessons
- Check out Real Python's [Python 3 Installation & Setup Guide](#) for other operating systems

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3. Setting Up Python on macOS
4. Setting Up Python on Ubuntu Linux
5. Summary

# What You'll Learn

1. Where to download Python
2. How to install Python
3. How to open IDLE

# Where to Download Python

1. The official Python distribution hosted on <https://python.org>
2. The Windows App Store

# What is PATH ?

- `PATH` is an **environment variable** on Windows that tells the **command line** where to look for files and folders.
- Adding Python to `PATH` allows you to use the `python` command in a terminal to run Python programs.



# Should You Add Python to PATH ?

- If you only have one version of Python installed, then you can safely add Python to `PATH` in most cases.
- If you need multiple versions of Python installed on the same computer, then it is best to *not* add Python to `PATH`.
- In either case, you can use the **Python Launcher for Windows** to run Python programs instead of the `python` command.

# Should You Add Python to PATH ?

**NOTE:** In this course, it's assumed that you are installing Python for the first time and will only have one version of Python installed on your computer.

You'll see Python installed with the *Add Python to PATH* option selected.

# Should You Remove the MAX\_PATH Limitation?

- Older versions of Windows limit **file paths** to 260 characters.
- This limit can be expanded to ~32,000 characters on the latest versions of Windows.
- Only remove the limitation if you know for sure you'll need it, as choosing to do so will alter your computer's configuration.
- In this course, it's assumed you do *not* need to remove the limit.

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# Where to Download Python

The official Python distribution is hosted on <https://python.org>

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# System Python

- Comes pre-installed on your computer
- Is required for the operating system to function
- **Warning:** Never attempt to uninstall system Python!

# Options For Installing Python On Linux

1. Use a package manager, such as `apt` on Ubuntu
2. Compile Python from source

# Ubuntu Python is Not Complete

- Python is available in a package called `python3.9` in Ubuntu's Universe repository, but it only comes with the **Python interpreter** and is missing:
  - `pip`
  - IDLE
- You'll need to install two additional packages:
  - `python3-pip`
  - `idle-python3.9`

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# What You Learned

1. Where to download Python on Windows and macOS
2. How to install Python
  - From the official installer on Windows and macOS
  - From `apt` on Ubuntu Linux
3. How to open IDLE

# Where To Go From Here

- You're now ready to start coding in Python!
- Future *Python Basics* Video Courses will continue to use IDLE
- You might also look into setting up a different editor:
  - **Article:** Python IDEs and Code Editors (Guide)
  - **Video Course:** Finding the Perfect Python Code Editor