# Programming Python Using an IDE But Why? And Which One?



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# Programming Python Using an IDE But Why? And Which One?

**Code Editor** 

Integrated Development Environment



## What's the Difference?

**Code Editor** 

Integrated Development Environment



## Code Editor

## Primarily designed to edit code

- Text stored in files, organized in folders

## Get started editing text

- Complexity goes up quickly



## Code Editor

## Features to enhance coding experience

- Included or via a plugin

## **General purpose**

- Usually not language-specific

Availability may vary per operating system



# Integrated Development Environment

### Code editor + compiler + debugger

- Autocomplete, highlighting, and syntax checking
- Dependency manager
- Source control
- Performance profiler
- Deployment

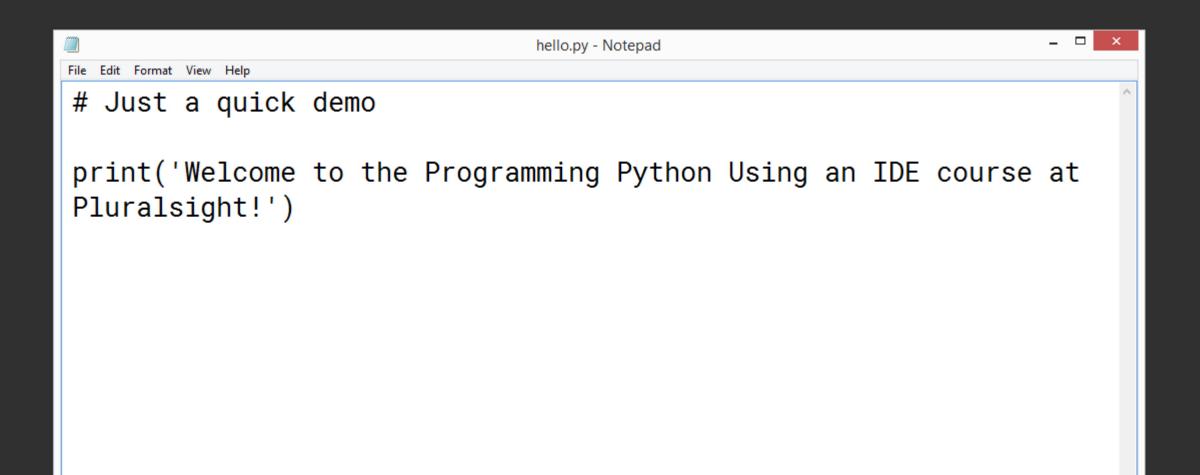


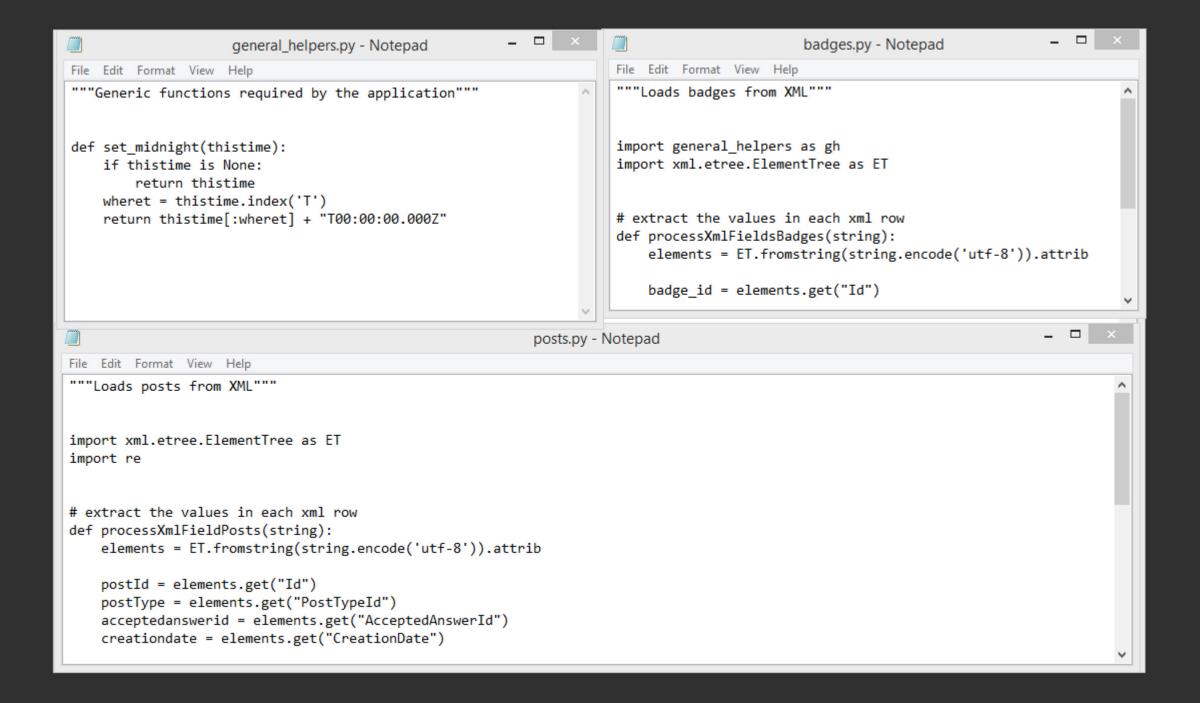
# Demo

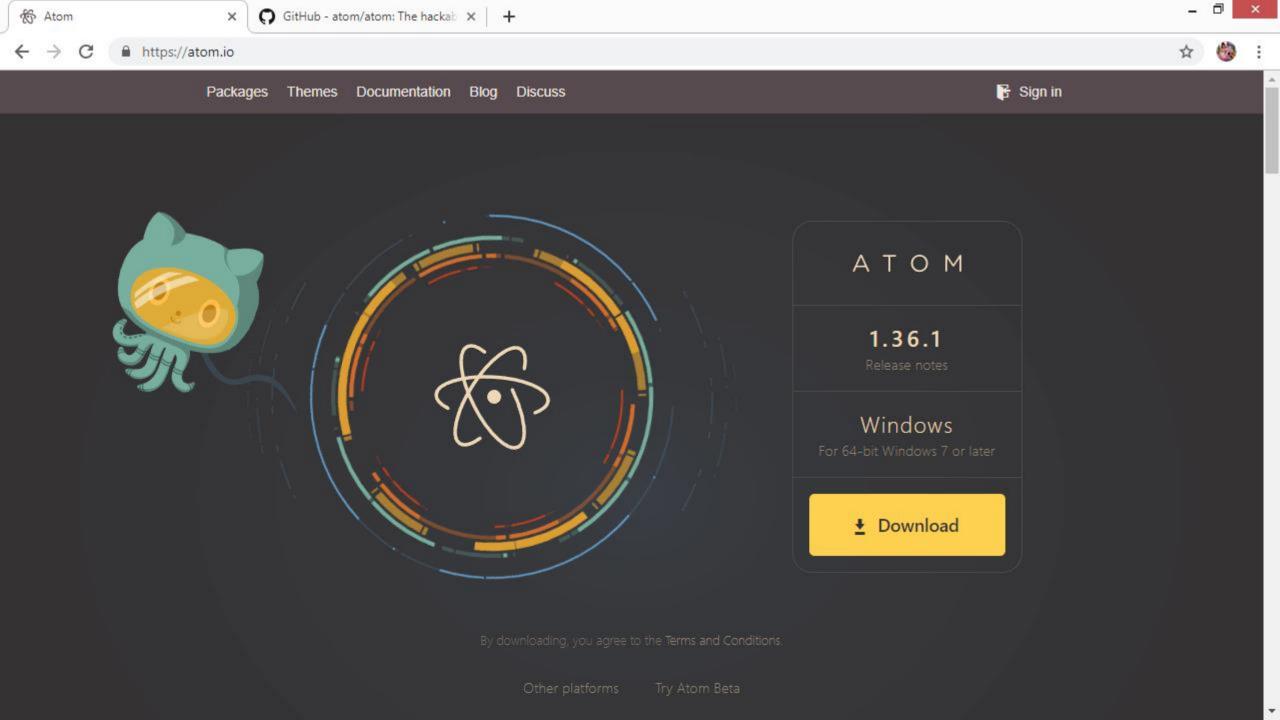


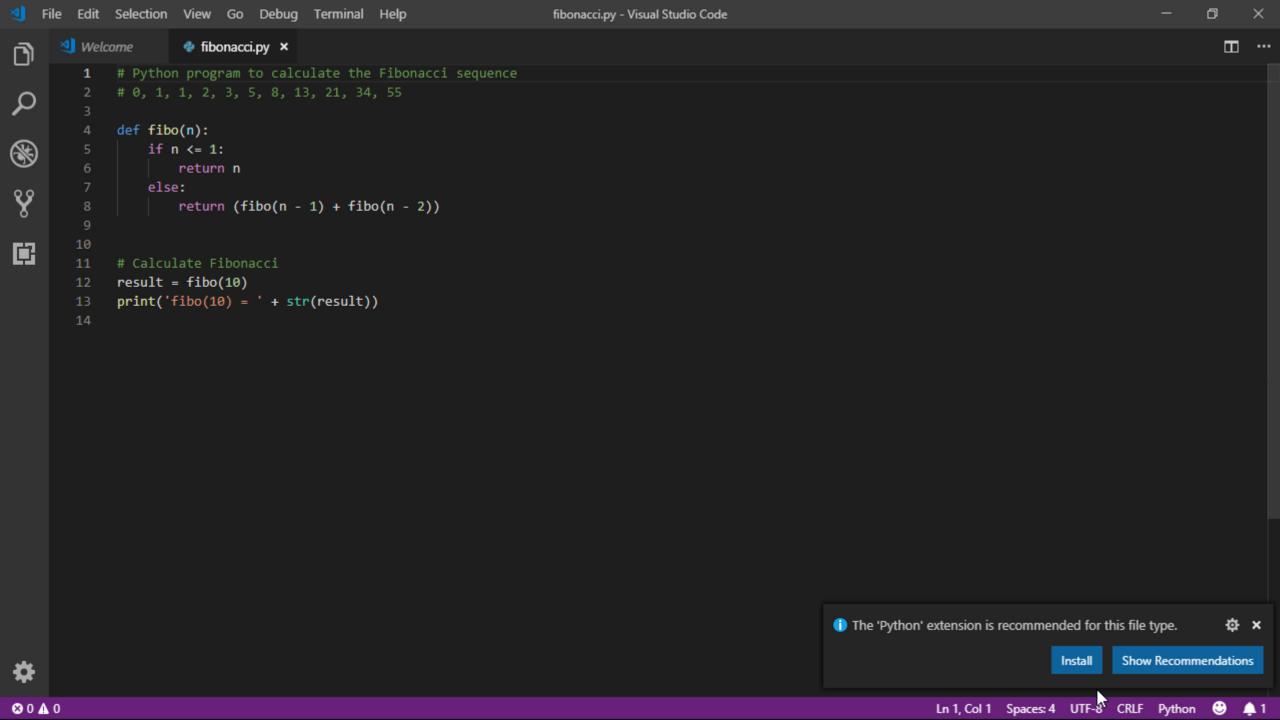
Overview of Available Code Editors for Python









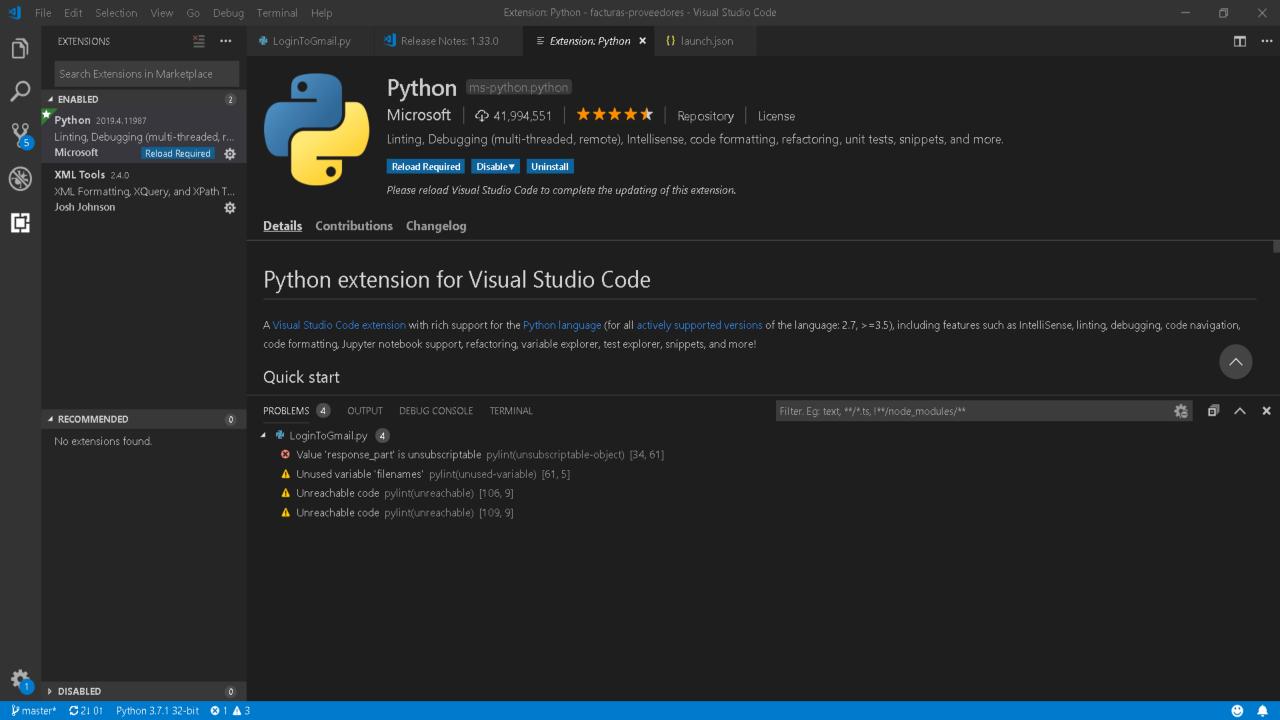


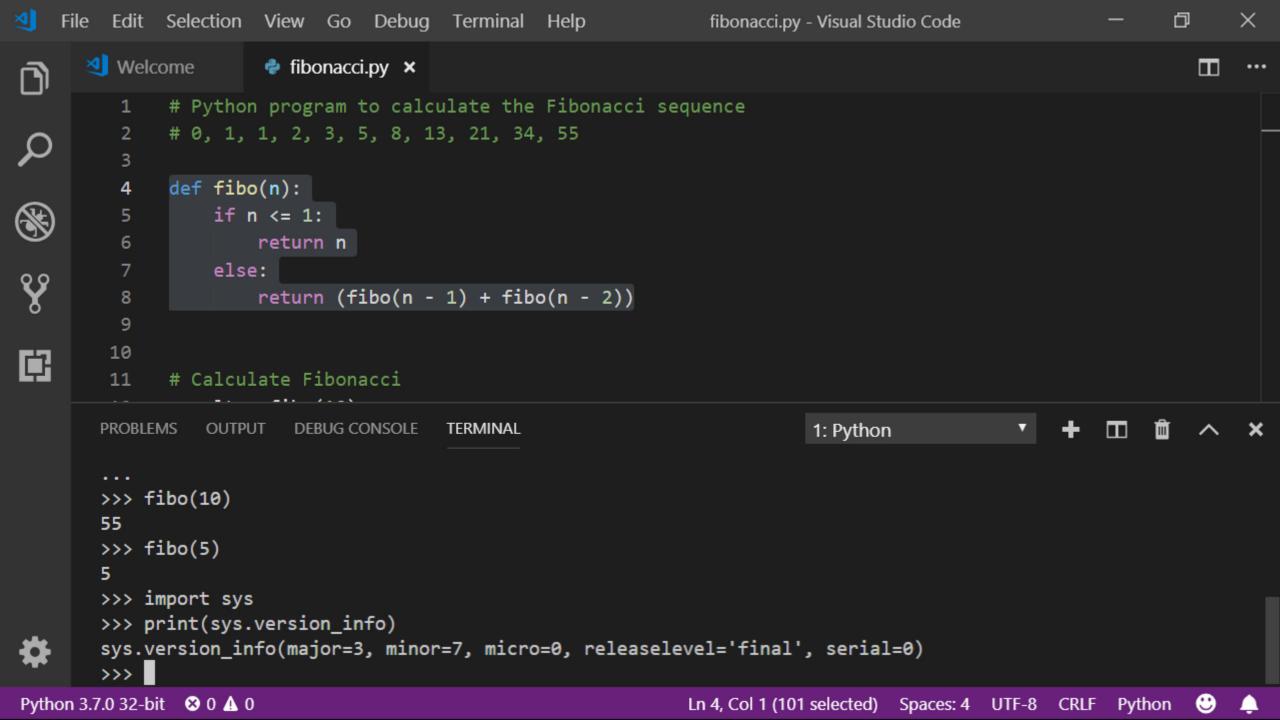
# Demo



Configuring Python Features for Specific Code Editors







🊳 Welcome Guide — Atom

File Edit View Selection Find Packages Help

Welcome



#### A hackable text editor for the 21st Century

#### For help, please visit

- The Atom docs for Guides and the API reference.
- The Atom forum at discuss.atom.io
- The Atom org. This is where all GitHub-created Atom packages can be found.
- Show Welcome Guide when opening Atom

atom.io × 📆



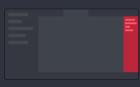
#### Get to know Atom!

📮 Open a Project

Version control with Git and GitHub

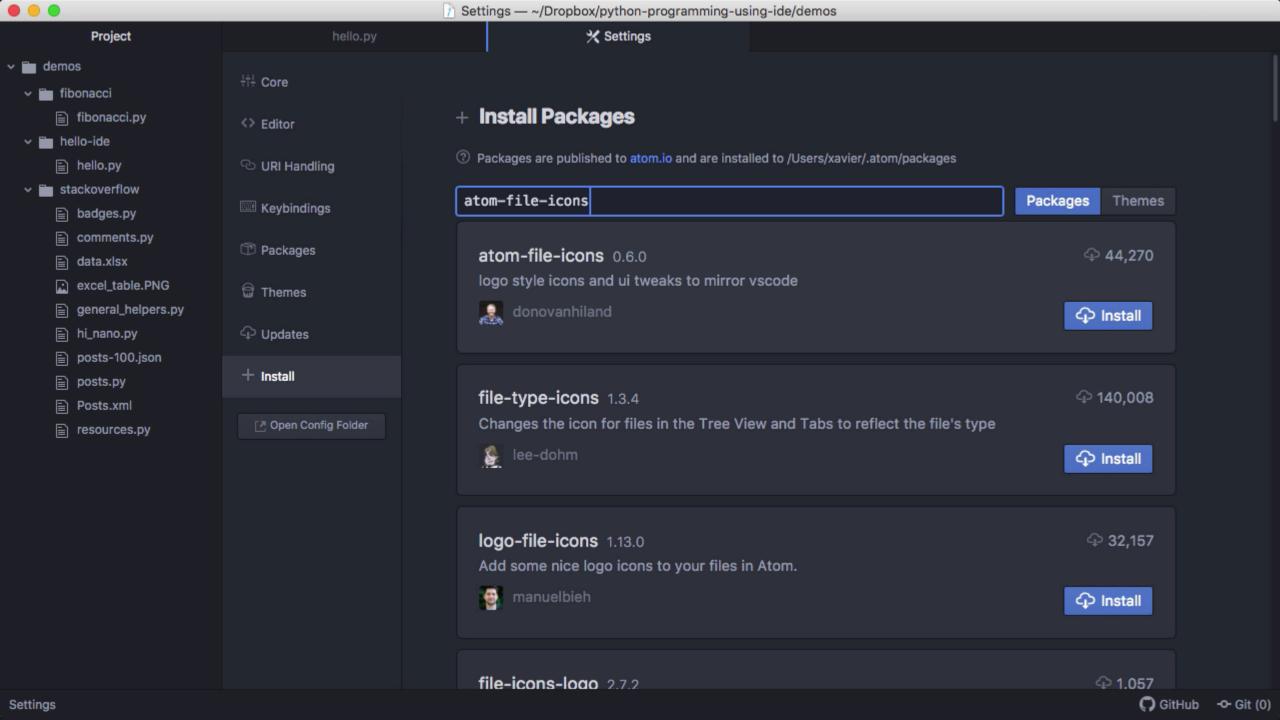
"A" Collaborate in real time with Teletype

🖈 Install a Package



One of the best things about Atom is the package ecosystem. Installing packages adds new features and functionality you can use to make the editor suit your needs. Let's install one.

Open Installer



# Takeaway



#### Code is text stored in files

- Organized in folders

#### Code in a text editor

- Complexity goes up quickly

## Features to improve productivity

- General purpose
- May need to install a plugin



# Takeaway



## Different types of code editors

- Notepad, Notepad++
- Nano, VI, Emacs
- Sublime Text, Atom, VS Code

Availability per OS varies



# Takeaway



## **Integrated Development Environment**

- Also known as IDE
- Go beyond code editing
- Running, debugging, source control, profiling, and more

We will cover IDEs next

