bem-vindos à universidade de aveiro

universidade de aveiro
Nova Geração de Ideias

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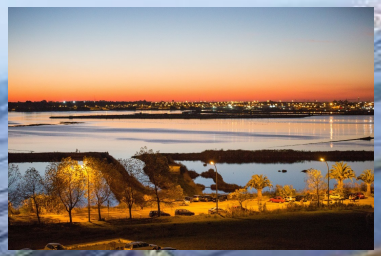

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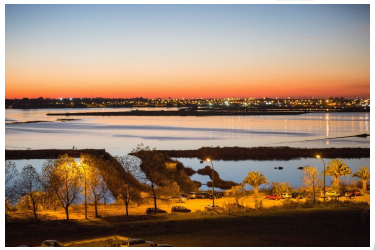

Legenda

1 CIMED – Centro Multimédia e de Ensino à Distância; Incubadora de Empresas; UNAVE – Associação para a Formação Profissional e Investigação; Jardim Infantil e ATL; CESAE; CEFASI
2 Departamento de Línguas e Culturas
3 Escola Superior de Saúde; Secção Autónoma de Ciências da Saúde
4 Departamento de Electrónica e Telecomunicações
5 CIFOP – Centro Integrado de Formação de Professores; Departamento de Didáctica e Tecnologia Educativa; Mediateca; Sala Universia
6 Serviços de Acção Social; Refeitório de Santiago; Balcão de Correios; Agência Bancária; Caixas Multibanco (ATM); Loja de Informática; Quiosques; Centro de Cópias; Lavandaria; Papelaria; Snack-Bar; Posto de Atendimento e Loja da AAUAv; Floreta
7 Departamento de Ambiente e Ordenamento
8 Departamento de Biologia
9 Departamento de Engenharia Cerâmica e do Vidro
10 Departamento de Economia, Gestão e Engenharia Industrial
11 Departamento de Matemática
12 Secção Autónoma de Ciências Sociais, Jurídicas e Políticas
13 Departamento de Física
14 Laboratório Central de Análises
15 Departamento de Química
16 Departamento de Geociências
17 Bibliotecas; Serviços de Documentação; Sala de Exposições Helena de Beauvoir
18 Departamento de Ciências da Educação
19 IT – Instituto de Telecomunicações
20 IEETA – Instituto de Engenharia Electrónica e Telemática de Aveiro
21 Departamento de Comunicação e Arte
22 Departamento de Engenharia Mecânica
23 Complexo Pedagógico, Científico e Tecnológico
24 Livraria e Sala de Exposições
25 Edifício Central e da Reitoria: Reitoria; Administração; Conselho Científico; Conselho Pedagógico; Gabinete de Cooperação para o Desenvolvimento; Gabinete de Estágios e Saídas Profissionais; Gabinete de Gestão da Informação; Gabinete Pedagógico; Gabinete da Qualidade, Avaliação e Procedimentos; Gabinete de Relações Internacionais; Instituto de Formação Inicial Universitária; Instituto de Formação Pós-Graduada; Programa Aveiro-Norte; Serviços Académicos e Administrativos; Serviços Financeiros e Patrimoniais; Serviços de Relações Externas; Serviços Técnicos
26 Departamento de Biologia
27 Centro de Computação; Centro de Informática e Comunicações da UA
28 Secção Autónoma de Engenharia Civil
29 Complexo de Laboratórios Tecnológicos
A ISCAA - Instituto Superior de Contabilidade e Administração
B Residências de Estudantes
C Residência de Docentes, Funcionários e Estudantes de Pós-graduação
D DAO – Instituto do Ambiente e Desenvolvimento
E Pavilhão Polidesportivo; Antídoto Hall
F Snack-bar; Self-service; Restaurante Universitário
G Creches e Jardim Infantil
H Centro de Cópias
I GRETUA – Grupo Experimental de Teatro da UA
J Depósito de Água
K Pista de Atletismo
L Ponte Pedonal
M Relógio de Cristo
N Casa do Estudante; sede da AAUAv – Associação Académica da UA
O Estação Meteorológica
P Parques de Estacionamento
Q Fábrica Centro de Ciência Viva

Rede Wireless - EDUROAM

Nesta página encontrará toda a informação necessária para alterar e/ou configurar a sua rede sem fios eduroam, de acordo com o sistema operativo que utiliza.

Qualquer dúvida ou dificuldade no processo de configuração poderá solicitar apoio ao servicedesk dos STIC através dos contactos habituais.

Configurações:

Rede: eduroam Cifra: WPA2/AES Autenticação: PEAP / MSChapV2 Certificado: DigiCert Assured ID Root CA

Certificados:

DigiCert Assured ID Root CA para Windows/Linux/MAC (certificado de segurança tipo CER –2 Kb)
DigiCert Assured ID Root CA para dispositivos móveis (certificado de segurança tipo DER –2 Kb)

levidamente instalados no
essária qualquer intervenção
por parte do utilizador, exceto a confirmação do seu Utilizador Universal e Password.

https://www.ua.pt/pt/stic/page/24010

Some support documentation

- Fundamentos de programação
- Python – a nossa linguagem de programação

- Objectivo desta aula
  - Setup do ambiente de programação
  - Primeiros “programas” de python

TIOBE Index for October 2020

October Headline: Python is getting closer to the second position

Python conquered the third position in the TIOBE index last year, but its popularity is still rising. This month it has reached a new all time high at 11.28%. Since Java is approaching its all time low since 2001, Python and Java are getting pretty close. The gap is now less than 1.3%. Since the start of the TIOBE index, C and Java have always held the 2 top positions. So it would be a unique event, if Python would reach position #2. Let's see what will happen the next few months. - *Paul Jansen, CEO TIOBE Software*

The TIOBE Programming Community index is an indicator of the popularity of programming languages. The index is updated once a month. The ratings are based on the number of skilled engineers world-wide, courses and third party vendors. Popular search engines such as Google, Bing, Yahoo!, Wikipedia, Amazon, YouTube and Baidu are used to calculate the ratings. It is important to note that the TIOBE index is not about the *best* programming language or the language in which *most lines of code* have been written.

The index can be used to check whether your programming skills are still up to date or to make a strategic decision about what programming language should be adopted when starting to build a new software system. The definition of the TIOBE index can be found here.

Oct 2020	Oct 2019	Change	Programming Language	Ratings	Change
1	2	↑	C	16.95%	+0.77%
2	1	↓	Java	12.56%	-4.32%
3	3		Python	11.28%	+2.19%
4	4		C++	6.94%	+0.71%
5	5		C#	4.16%	+0.30%
6	6		Visual Basic	3.97%	+0.23%
7	7		JavaScript	2.14%	+0.06%
8	9	↑	PHP	2.09%	+0.18%
9	15	⇈	R	1.99%	+0.73%
10	8	↓	SQL	1.57%	-0.37%
11	19	⇈	Perl	1.43%	+0.40%
12	11	↓	Groovy	1.23%	-0.16%
13	13		Ruby	1.16%	-0.16%
14	17	↑	Go	1.16%	+0.06%
15	20	⇈	MATLAB	1.12%	+0.19%
16	12	⇊	Swift	1.09%	-0.28%
17	14	⇊	Assembly language	1.08%	-0.23%
18	10	⇊	Objective-C	0.86%	-0.64%

https://www.tiobe.com/tiobe-index/

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8	9	↑	PHP	2.09%	+0.18%
9	15	⇈	R	1.99%	+0.73%
10	8	↓	SQL	1.57%	-0.37%
11	19	⇈	Perl	1.43%	+0.40%
12	11	↓	Groovy	1.23%	-0.16%
13	13		Ruby	1.16%	-0.16%
14	17	↑	Go	1.16%	+0.06%
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				1.08%	-0.23%
18	10	⇊	Objective-C	0.86%	-0.64%

https://www.tiobe.com/tiobe-index/

How Python is so **popular**

Just a example in the web (multiple exists)

Top 10 Reasons Why Python is So Popular With Developers in 2020

by upGrad

JAN 5, 2020

Python is one of the languages that is witnessing incredible growth and popularity year by year. In 2017, Stackoverflow calculated that python would beat all other programming language in the world.

https://www.upgrad.com/blog/reasons-why-python-popular-with-developers/

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Just a example in the web (multiple exists)

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Home > Data Scie

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42 Exciting Python Project deas & Topics for

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Departamento de Eletrónica, Telecomunicações e Informática
40379 - Fundamentos de Programação

Last change: 2020-10-02

Python survival toolkit

Here you can find some instructions that may help to install and use python on your computer:

- Setting up python in three popular OS: linux, windows and MacOS
- Some code editors you can use and related information
- How to setup the python environment namely installing new packages
- Advanced information for those with windows and want to explore Linux with WSL

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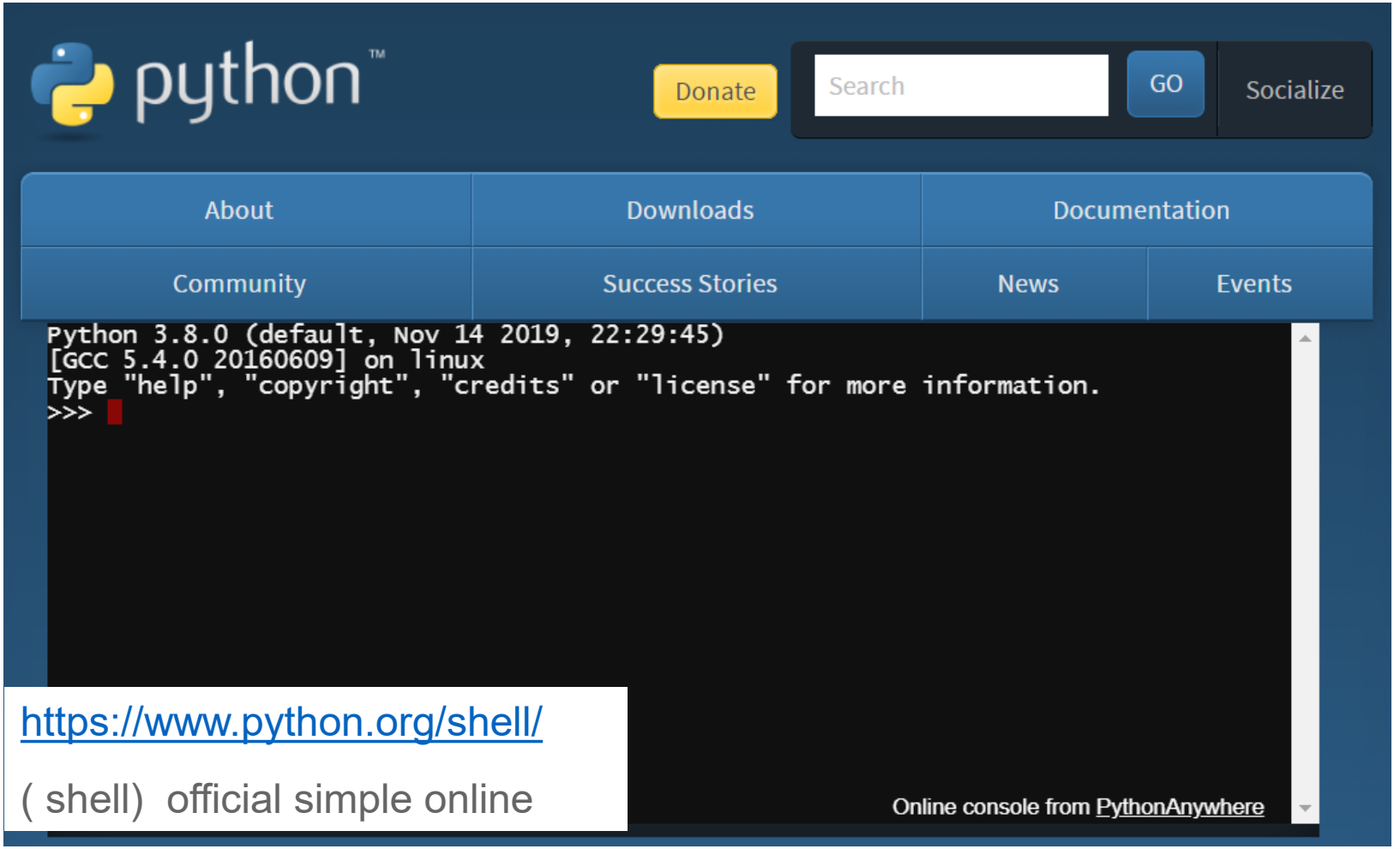
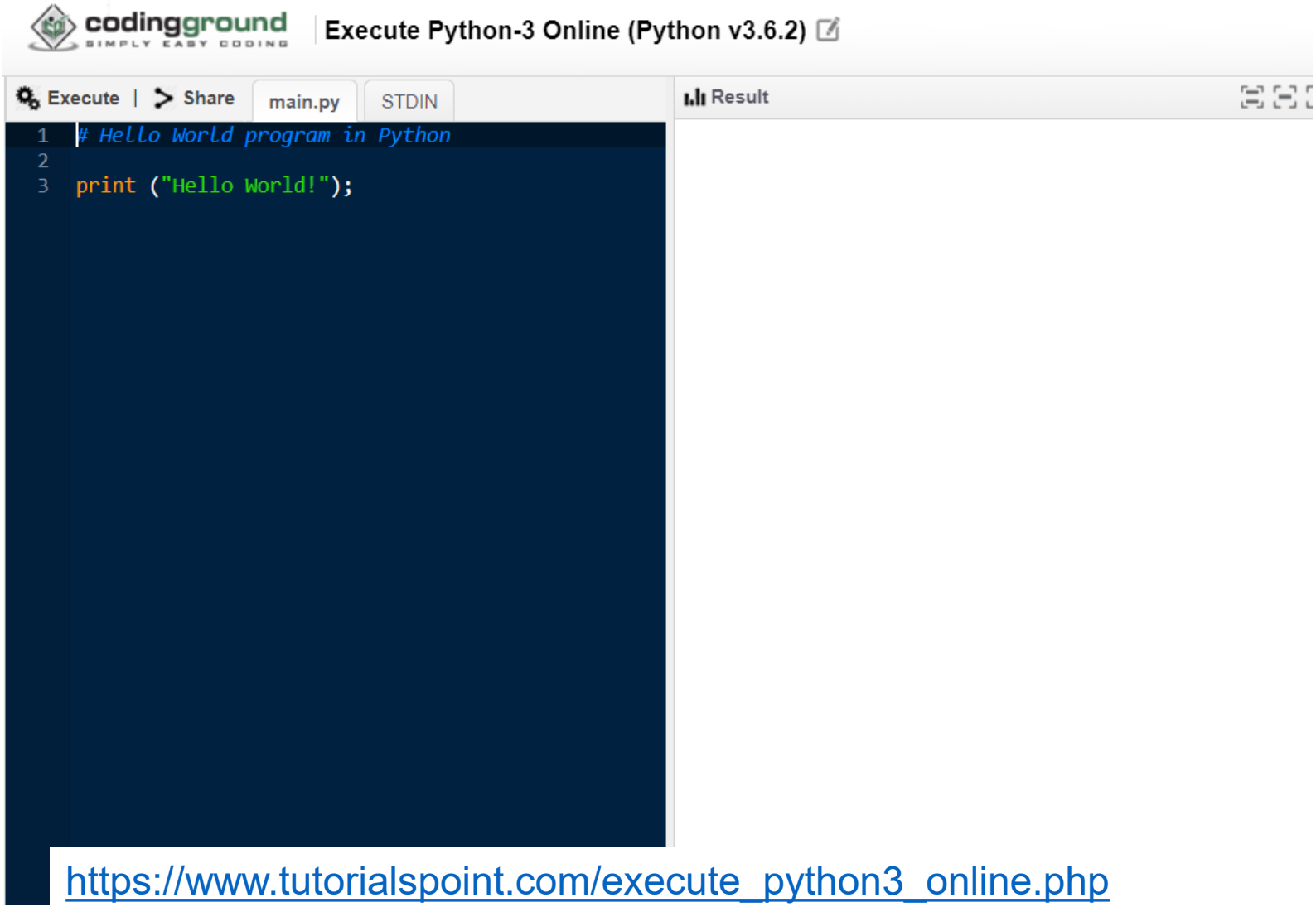
If your really need python and only have browser



https://www.python.org/shell/

(shell) official simple online

If your really need python and



https://www.tutorialspoint.com/execute_python3_online.php

(file editing + execution)

trinket

Sign Up Log In

Python 3 Trinkets

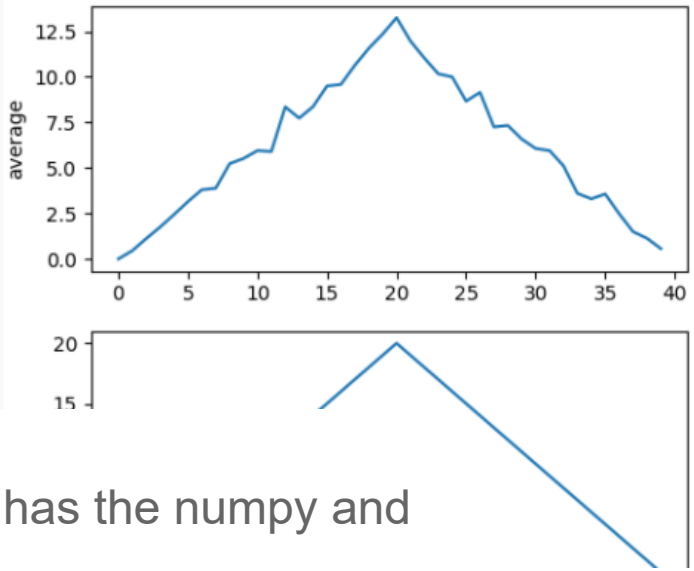
The easiest way to use the full power of Python 3.

Remix

main.py inflammation-01.csv

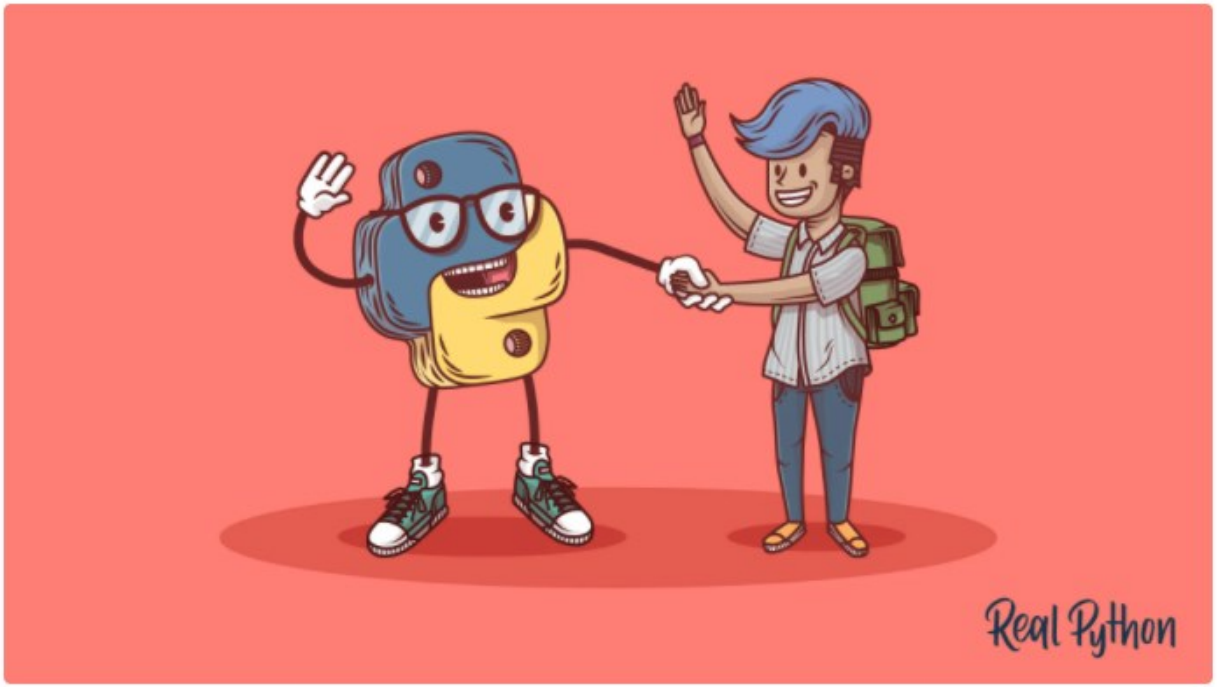
```
1  import numpy
2  import matplotlib.pyplot
3
4  # Load data
5  data = numpy.loadtxt(fname='inflammation-01.csv', delim
6  # Make Figure
7  fig = matplotlib.pyplot.figure(figsize=(5.0, 7.0))
8
9  # Create subplots in 3 rows and 1 column
10 axes1 = fig.add_subplot(3, 1, 1)
11
12
13
14
```

Powered by trinket



https://trinket.io/features/python3

(file editing + execution) this environment already has the numpy and matlibplot available



Python 3 Installation & Setup Guide

by Real Python Aug 31, 2020 25 Comments basics best-practices python

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  - How to Install on CentOS and Fedora
  - How to Install on Arch Linux
  - How to Build Python From Source Code

https://realpython.com/installing-python/

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How To Install Python 3 On Windows 10

Posted April 2, 2019 WINDOWS PIP PYTHON

Home / DevOps and Development / How To Install Python 3 on Windows 10

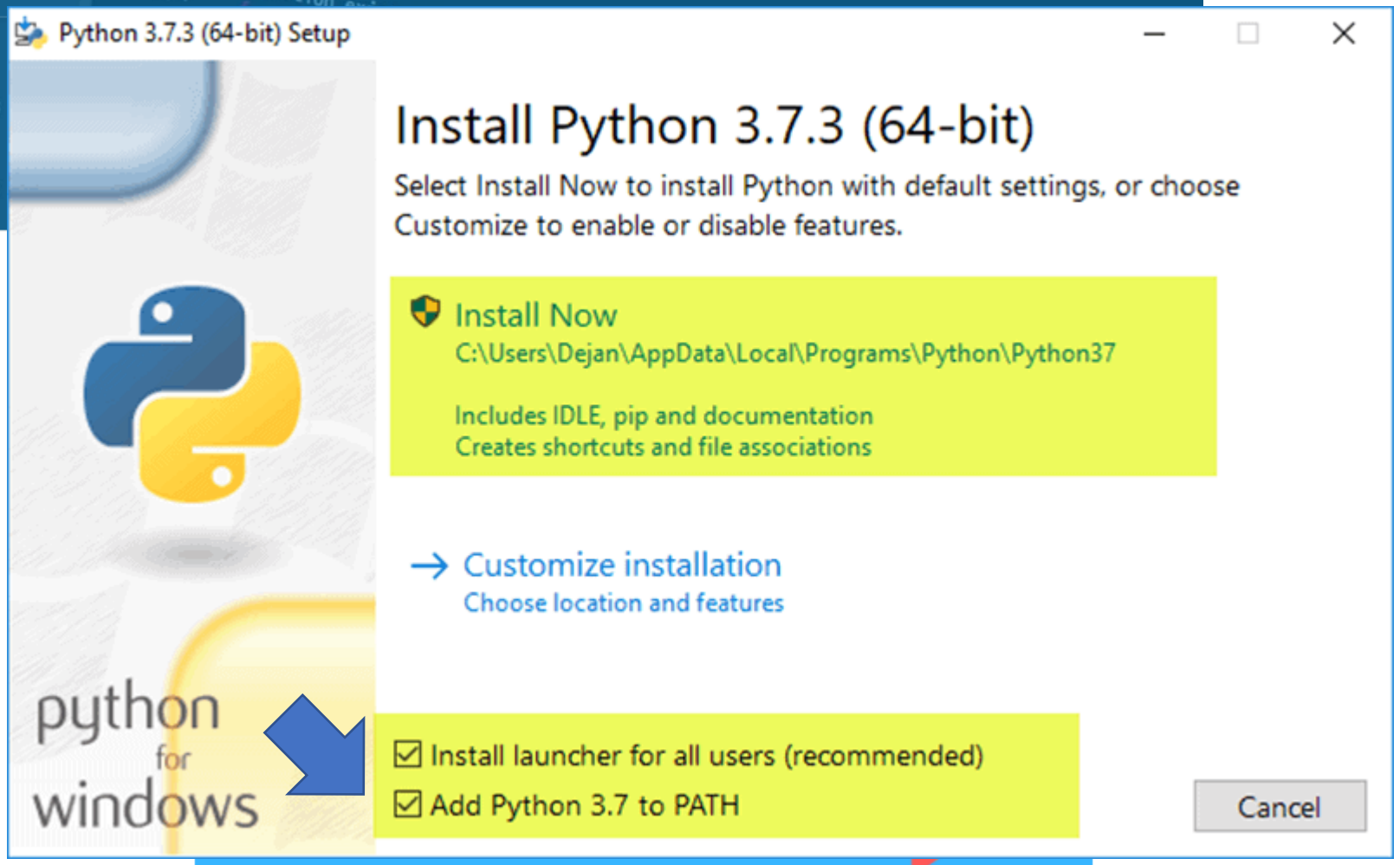
Contents

Introduction

Python is a widely used high-level programming language first launched in 1991. Since then, Python has been gaining popularity and is considered as one of the most popular and flexible server-side programming languages.

Unlike most Linux distributions, Windows does not come with the Python programming language by default. However, you can **install Python on your Windows server or local machine** in just a few easy steps.

https://phoenixnap.com/kb/how-to-install-python-3-windows



2. Make sure you select the **Install launcher for all users** and **Add Python 3.7 to PATH** checkboxes. The latter places the interpreter in the execution path. For older versions of Python that do not support the **Add Python to Path** checkbox, see Step 6.

https://phoenixnap.com/kb/how-to-install-python-3-windows

Python: hands on

- Your program(s) are in text files
- Files end with .py
- Use editors to “change” them
  - Add your code
- To run can use command line (CL)
  - Python, python3, py, …
- Or use editor specific Buttons

How to open the CL?

- Powershell in windows, Terminal in linux and MacOS

- the ways to open Terminal in Mac OS X
  - https://www.howto72.com/2018/07/three-ways-to-open-terminal-in-mac-os-x.html
- 9 Ways to Open PowerShell in Windows 10
  - https://www.howtogeek.com/662611/9-ways-to-open-powershell-in-windows-10/
- 5 Ways to Open a Terminal in Ubuntu
  - https://www.fosslinux.com/39948/5-ways-to-open-a-terminal-in-ubuntu.htm

Test the Command line

Verify the Python installation

To verify that you've installed Python successfully on your machine, run one of the following commands (depending on your operating system):

- Linux/macOS: open a Terminal Window and type the following command:

```
python3 --version
```

- Windows: open a command prompt and run the following command:

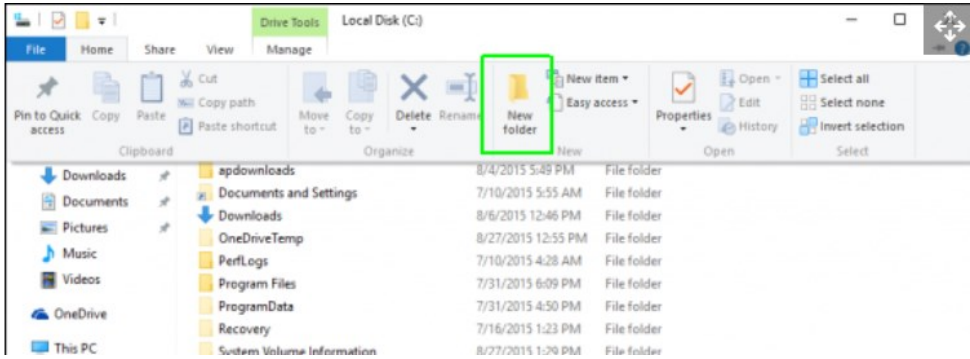
```
py -3 --version
```

If the installation was successful, the output window should show the version of Python that you installed.

Python code: some notes

- A project/program should be in a folder
  - Create the folder
  - Go into the folder
  - Create the python file(s)

Using windows (similar in other systems)
create and goto folder (double click)



Using a command line (CL)

```
mkdir hello
cd hello
```

editors

Geany About Download Documentation Support Contribute

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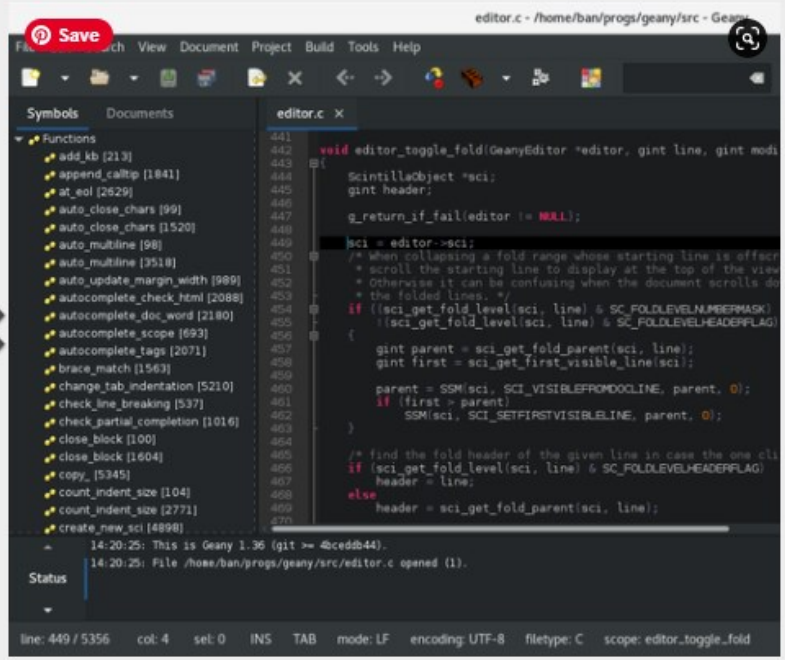
Geany - The Flyweight IDE

Geany is a powerful, stable and lightweight programmer's text editor that provides tons of useful features without bogging down your workflow. It runs on Linux, Windows and MacOS is translated into over 40 languages, and has built-in support for more than 50 programming languages.



Download Geany 1.36 »

https://www.geany.org/

Geany is a simple text editor, which makes it easy to run Python programs. Output is displayed in a separate terminal window, which gets you us to working in terminals as well.

- Go to Geany's download page.
- Download the full installer, which is described as *Full Installer including GTK 2.16*.
  - This is the current direct link to the installer for Geany 1.24.
- Write a Hello World program, and save it as 'hello.py'.
- There are three ways you can run a program in Geany:
  - Build > Execute
  - Press F5
  - Click the icon with three gears on it
- We should see a terminal window pop up, with your output in it, but you probably won't see this yet:

```
Hello Python world!


------------------
(program exited with code: 0)
Press return to continue
```

You'll probably see an error message, because Geany doesn't know where Python lives on your system. We'll fix that in the next section.

http://introtopython.org/programming_environment_windows.html#Installing-Geany

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Version 1.49 is now available! Read about the new features and fixes from August.

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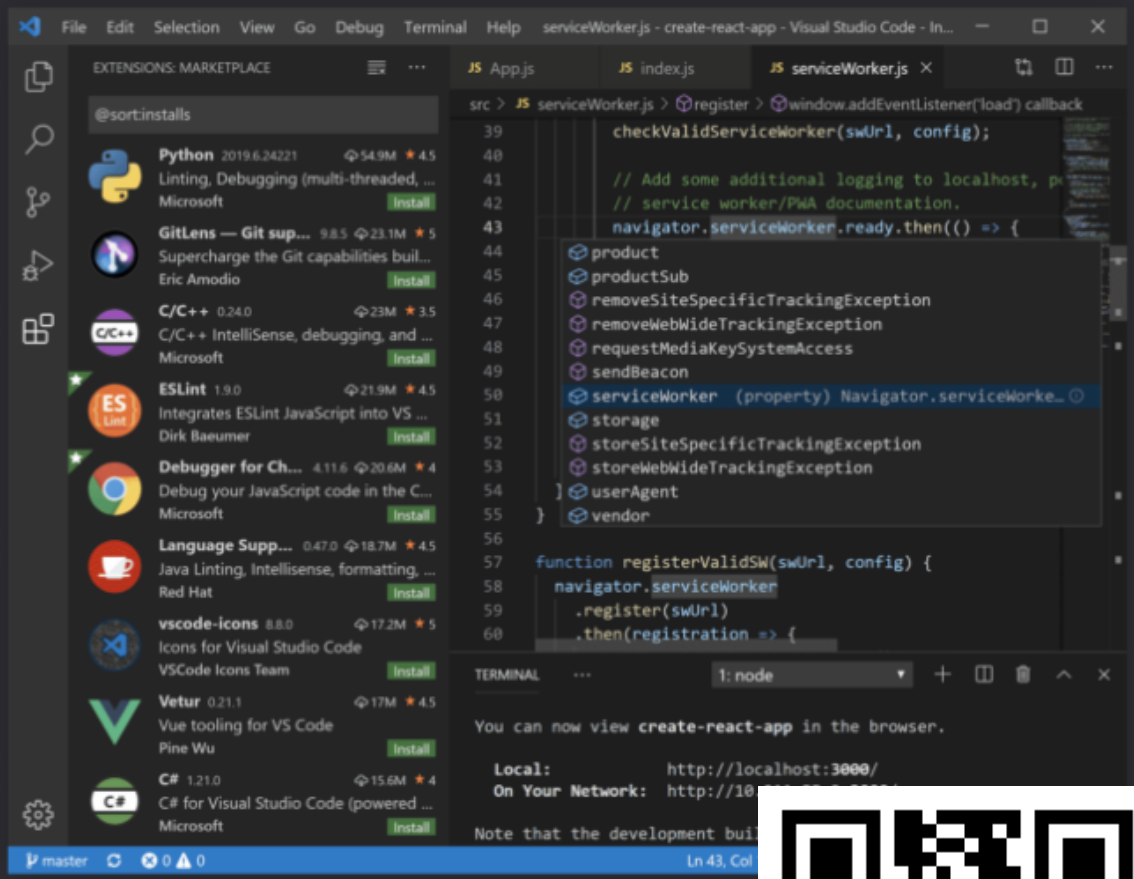

IntelliSense Run and Debug Built-in Git

https://code.visualstudio.com/

Python in Visual Studio Code

Edit

Working with Python in Visual Studio Code, using the Microsoft Python extension, is simple, fun, and productive. The extension makes VS Code an excellent Python editor, and works on any operating system with a variety of Python interpreters. It leverages all of VS Code's power to provide auto complete and IntelliSense, linting, debugging, and unit testing, along with the ability to easily switch between Python environments, including virtual and conda environments.

This article provides only an overview of the different c s of the Python extension for VS Code. For a walkthrough of editing, running, and debugging cod utton below.

Python Hello World Tutorial

Install Python and the Python extension

The tutorial guides you through installing Python and using the extension. You must install a Python interpreter yourself separately from the extension. For a quick install, use Python 3.7 from python.org and install the extension from the VS Code Marketplace.

Once you have a version of Python installed, activate it using the **Python: Select Interpreter** command. If VS Code doesn't automatically locate the interpreter you're looking for, refer to Environments - Manually specify an interpreter.

You can configure the Python extension through settings. See the Settings reference.

Insiders program

The Insiders program allows you to try out and automatically install new versions of the Python extension prior to release, including new features and fixes.

https://code.visualstudio.com/docs/languages/python

for **Python: Insiders Channel** to set the channel to "daily" or "weekly".

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Start VS Code in a project (workspace) folder

Using a command prompt or terminal, create an empty folder called "hello", navigate into it, and open VS Code (`code`) in that folder (`.`) by entering the following commands:

```
mkdir hello
cd hello
code .
```

> **Note:** If you're using an Anaconda distribution, be sure to use an Anaconda command prompt.

By starting VS Code in a folder, that folder becomes your "workspace". VS Code stores settings that are specific to that workspace in `.vscode/settings.json`, which are separate from user settings that are stored globally.

Alternately, you can run VS Code through the operating system UI, then use **File** > **Open Folder** to open the project folder.

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https://code.visualstudio.com/docs/python/python-tutorial

for **Python: Insiders Channel** to set the channel to "daily" or "weekly".

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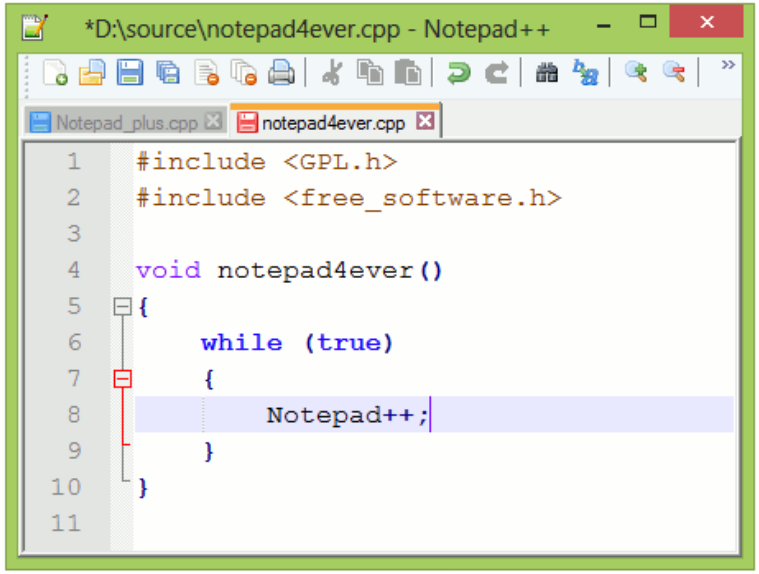
What is Notepad++

Notepad++ is a free (as in “free speech” and also as in “free beer”) source code editor and Notepad replacement that supports several languages. Running in the MS Windows environment, its use is governed by GNU General Public License.

Based on the powerful editing component Scintilla, Notepad++ is written in C++ and uses pure Win32 API and STL which ensures a higher execution speed and smaller program size. By optimizing as many routines as possible without losing user friendliness, Notepad++ is trying to reduce the world carbon dioxide emissions. When using less CPU power, the PC can throttle down and reduce power consumption, resulting in a greener environment.



https://notepad-plus-plus.org/

I hope you enjoy Notepad++ as much as I enjoy coding it.