

Gis Tutorial For Python Scripting

Python (programming language)

Python-inspired syntax. ECMAScript-JavaScript borrowed iterators and generators from Python. GDScript, a Python-like scripting language that is built in to the

Python is a high-level, general-purpose programming language. Its design philosophy emphasizes code readability with the use of significant indentation.

Python is dynamically type-checked and garbage-collected. It supports multiple programming paradigms, including structured (particularly procedural), object-oriented and functional programming.

Guido van Rossum began working on Python in the late 1980s as a successor to the ABC programming language. Python 3.0, released in 2008, was a major revision not completely backward-compatible with earlier versions. Recent versions, such as Python 3.12, have added capabilities and keywords for typing (and more; e.g. increasing speed); helping with (optional) static typing. Currently only versions in the 3.x series are supported.

Python consistently ranks...

Web2py

framework written in the Python programming language. Web2py allows web developers to program dynamic web content using Python. Web2py is designed to help

Web2py is an open-source web application framework written in the Python programming language. Web2py allows web developers to program dynamic web content using Python. Web2py is designed to help reduce tedious web development tasks, such as developing web forms from scratch, although a web developer may build a form from scratch if required.

Web2py was originally designed as a teaching tool with emphasis on ease of use and deployment. Therefore, it does not have any project-level configuration files. The design of web2py was inspired by the Ruby on Rails and Django frameworks. Like these frameworks, web2py focuses on rapid development, favors convention over configuration approach and follows a model-view-controller (MVC) architectural pattern.

Isochrone map

explained using the GIS software QGIS and pgRouting (an extension of PostGIS). pysochrone is a Python script and simple web interface for computing and displaying

An isochrone map in geography and urban planning is a map that depicts the area accessible from a point within a certain time threshold. An isochrone (iso = equal, chrone = time) is defined as "a line drawn on a map connecting points at which something occurs or arrives at the same

time". In hydrology and transportation planning isochrone maps are commonly used to depict areas of equal travel time. The term is also used in cardiology as a tool to visually detect abnormalities using body surface distribution.

NASA WorldWind

SDKs for the Android OS and the JavaScript-based web apps. Like WWJ, there is no single application for the versions. NASA WorldWind SDK Tutorial:[1] This

NASA WorldWind is an open-source (released under the NOSA license and the Apache 2.0 license) virtual globe. According to the website, "WorldWind is an open source virtual globe API. WorldWind allows developers to quickly and easily create interactive visualizations of 3D globe, map and geographical information. Organizations around the world use WorldWind to monitor weather patterns, visualize cities and terrain, track vehicle movement, analyze geospatial data and educate humanity about the Earth." It was first developed by NASA in 2003 for use on personal computers and then further developed in concert with the open source community since 2004. As of 2017, a web-based version of WorldWind is available online. An Android version is also available.

The original version relied on .NET Framework...

Spatial network analysis software

Plugins are provided for Autocad (for designers), ArcGIS, open source QGIS (for analysts & designers) and as a standalone Python version that works on

Spatial network analysis software packages are analytic software used to prepare graph-based analysis of spatial networks. They stem from research fields in transportation, architecture, and urban planning. The earliest examples of such software include the work of Garrison (1962), Kansky (1963), Levin (1964), Harary (1969), Rittel (1967), Tabor (1970) and others in the 1960s and 70s. Specific packages address their domain-specific needs, including TransCAD for transportation, GIS for planning and geography, and Axman for Space syntax researchers.

List of educational software

- free software (GPL) Zoombinis titles Alice (software) BlueJ Ch CircuitPython Code.org CodeCombat Codewars EarSketch Etoys GitHub Codespaces H5P Hackety

This is a list of educational software that is computer software whose primary purpose is teaching or self-learning.

List of free geology software

This important class of tools is already listed in the article List of GIS software. The following projects have unknown licensing, licenses or other

This is a list of free and open-source software for geological data handling and interpretation. The list is split into broad categories, depending on the intended use of the software and its scope of functionality.

Notice that 'free and open-source' requires that the source code is available and users are given a free software license. Simple being 'free of charge' is not sufficient—see gratis versus libre.

List of BASIC dialects

and operating system. AGK Script The primary scripting language of the AppGameKit descended from DarkBASIC. Advan BASIC For the Atari home computer, disk

This is an alphabetical list of BASIC dialects – interpreted and compiled variants of the BASIC programming language. Each dialect's platform(s), i.e., the computer models and operating systems, are given in parentheses along with any other significant information.

Open energy system models

and dispatch model intended primarily for Europe. It is written in Python (with Pyomo) and GAMS and uses Python for data processing. A valid GAMS license

Open energy-system models are energy-system models that are open source. However, some of them may use third-party proprietary software as part of their workflows to input, process, or output data. Preferably, these models use open data, which facilitates open science.

Energy-system models are used to explore future energy systems and are often applied to questions involving energy and climate policy. The models themselves vary widely in terms of their type, design, programming, application, scope, level of detail, sophistication, and shortcomings. For many models, some form of mathematical optimization is used to inform the solution process.

Energy regulators and system operators in Europe and North America began adopting open energy-system models for planning purposes in the early-2020s....

Azure Maps

also includes a set of REST SDKs for developers integrating Azure Maps REST APIs into Python, C#, Java or JavaScript applications. Azure Maps also includes

Azure Maps is a suite of cloud-based, location-based services provided by Microsoft as part of the company's Azure platform. The platform provides geospatial and location-based services via REST APIs and software development kits (SDKs). The service is typically used to integrate maps or geospatial data into applications.

Azure Maps differs from Microsoft's other enterprise mapping service, Bing Maps, in its pricing model, focus on privacy, and its level of integration into the broader Azure cloud ecosystem.

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