



Historia

Guido van Rossum



Python's Benevolent Dictator for Life

"In December 1989, I was looking for a "hobby" programming project that would keep me occupied during the week around Christmas"

Guido van Rossum



"I decided to write an interpreter for the new scripting language I had been thinking about lately: a descendant of ABC that would appeal to Unix/C hackers."

Guido van Rossum



- CWI, Centrum Wiskunde & Informatica
- Google
- Dropbox

Monty python





Filosofía

The zen of python

Beautiful is better than ugly.

Explicit is better than implicit.

Simple is better than complex.

Complex is better than complicated.

Flat is better than nested.

Sparse is better than dense.

Readability counts.

Special cases aren't special enough to break the rules.

Although practicality beats purity.

Errors should never pass silently.

Unless explicitly silenced.

In the face of ambiguity, refuse the temptation to guess.

There should be one-- and preferably only one -- obvious way to do it.

Although that way may not be obvious at first unless you're Dutch.

Now is better than never.

Although never is often better than *right* now.

If the implementation is hard to explain, it's a bad idea.

If the implementation is easy to explain, it may be a good idea.

Namespaces are one honking great idea -- let's do more of those!

The zen of python

Beautiful is better than ugly.

Simple is better than complex.

Flat is better than nested.

Readability counts.

Fanatismo

Premature optimization vs clarity

Pythonic

Pythonista



Features

Multiparadigma

(Propósito general)

Imperativo + procedural

Orientado a Objetos

Funcional

- map / reduce / filter /comprehensions / generators

Orientado a aspectos

Features

Tipado dinámico

- No se declaran variables
- Las variables pueden cambiar de tipo en tiempo de ejecución

Garbage collector

Full unicode (utf8) support



Sintaxis: Expresiones

```
a = 1
b = a + 2
a = "Hola"
b = " Mundo"
print a + b
```

There are two types of people.

```
if (Condition)
{
    Statements
    /*
    ...
*/
}
```

```
if (Condition) {
    Statements
    /*
    ...
    */
}
```

Programmers will know.

```
if (condition) {
                           if (condition){
    /* statements */
                               /* statements */
if (condition)
                           if (condition) {
                                   /* statements */
    /* statements */
                           if (condition)
if (condition)
                                   /* statements */
    /* statements */
                           if (condition) {/* statements */}
if (condition)
                           if (condition){
    /* statements */
                           /* statements */
```

Tabs vs Espacios

Tabs vs Espacios



Sintaxis: Control

```
if a < b:
    print "a es"
    print "menor"
else:
    print "a es mayor o igual"</pre>
```

Sintaxis: Loop

```
for e in [1, 5, "pepe"]:
print e
```

Sintaxis

```
void bubble_sort (int *a, int n) {
  int i, t, s = 1;
  while (s) {
    s = 0;
     for (i = 1; i < n; i++) {
       if (a[i] < a[i - 1]) {
          t = a[i];
          a[i] = a[i - 1];
          a[i-1] = t;
          s = 1;
```

```
def bubble_sort(a):
    s = True
    while s:
        s = False
        for i in xrange(len(a) - 1):
        if a[i] > a[i+1]:
            a[i], a[i+1] = a[i+1], a[i]
            s = True
    return None
```

Sintaxis

```
void bubble_sort (int *a, int n) {
int i, t, s = 1;
while (s) {
s = 0;
for (i = 1; i < n; i++) {
if (a[i] < a[i - 1]) {
t = a[i];
a[i] = a[i - 1];
a[i-1] = t;
s = 1;
```

```
def bubble_sort(a):
    s = True
    while s:
        s = False
        for i in xrange(len(a) - 1):
        if a[i] > a[i+1]:
            a[i], a[i+1] = a[i+1], a[i]
            s = True
    return None
```

Sintaxis ofuscada

```
void bubble_sort (int *a, int n) {int i, t, s = 1;while (s) {s = 0; for (i = 1; i < n; i++) {if (a[i] < a[i - 1]) {t = a[i];a[i] = a[i - 1];a[i - 1] = t;s = 1;}}}
```

```
def bubble_sort(a):
    s = True
    while s:
        s = False
        for i in xrange(len(a) - 1):
        if a[i] > a[i+1]:
            a[i], a[i+1] = a[i+1], a[i]
        s = True
    return None
```



Comunidad: Paquetes





C https://pypi.python.org/pypi



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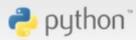
Nothing to report





search





» Package Index

PACKAGE INDEX

Browse packages Package submission List trove classifiers List packages

RSS (latest 40 updates)

RSS (newest 40 packages)

Python 3 Packages

PvPI Tutorial

PyPI Security

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PvPI - the Pvthon Package Index

The Python Package Index is a repository of software for the Python programming language. There are currently 60504 packages here.

To contact the PyPI admins, please use the Support or Bug reports links.

Get Packages

To use a package from this index either "pip install package" (get pip) or download, unpack and "python setup.py install" it.

Package Authors

Submit packages with "python setup.py upload". The index hosts package docs. You may also use the web form. You must register. Testing? Use testpypi.

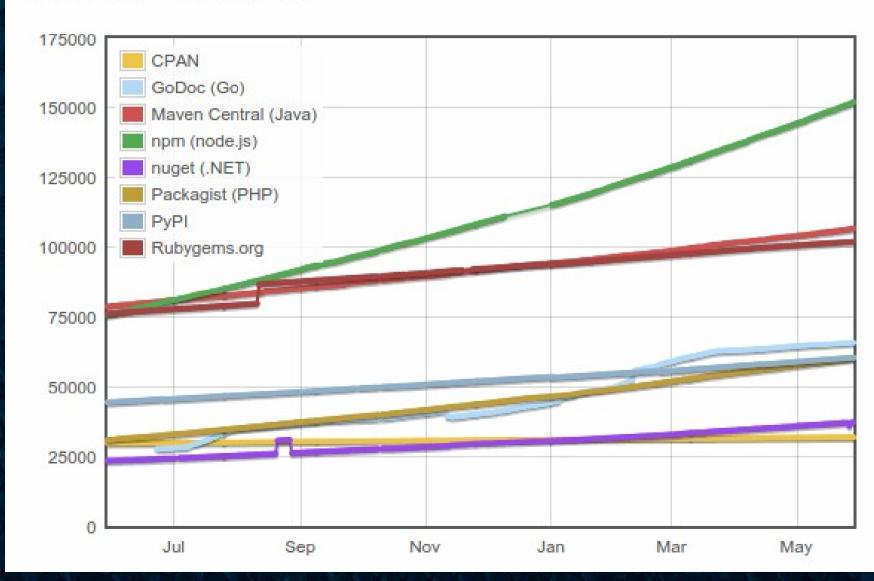
Infrastructure

To interoperate with the index use the JSON, OAuth, XML-RPC or HTTP interfaces. Use local mirroring or caching to make installation more robust.

Updated	Package	Description
2015-05-29	downhill 0.1.0	Stochastic optimization routines for Theano
2015-05-29	oletools 0.11	Python tools to analyze security characteristics of MS Office and OLE files (also called Structured Storage, Compound File Binary Format or Compound Document File Format), for Malware Analysis and Incident Response #DFIR
2015-05-29	syncloud-owncloud 8.0.3.67	ownCloud app
2015-05-29	charlatan 0.4.5	Efficiently manage and install data fixtures
2015-05-29	xonsh 0.1.6	an exotic, usable shell
2015-05-29	prismh.core 0.1.1	Parsing and Validation library for PRISMH Files
2015-05-29	generateDS 2.16a0	Generate Python data structures and XML parser from Xschema
2015-05-29	greatjob 1.1.1	Congratulations
2015-05-29	python-jsonrpc 0.7.7	Python JSON-RPC Client Server Library - Simple To Use Python JSONRPC- Library
2015-05-29	python-zpar 0.9.3	A Wrapper around the ZPar statistical tagger/parser for English
2015-05-29	PyScreeze 0.1.7	A simple, cross-platform screenshot module for Python 2 and 3.
2015-05-29	django-cas-client 1.2.0	Django Cas Client
2015-05-29	rebound 0.4.2	An open-source multi-purpose N-body code
2015-05-29	django-uuslug 1.1.5	A Django slugify application that guarantees uniqueness and handles unicode.

Comunidad: Paquetes





Me voy a node.js?

Me voy a node.js?

NO

Diferentes propósitos

Node's early packaging

Comunidad: Github



THITTE IS

MILL

MILL

IIII

111

1,654,226

THITTE IS

MITTIE

UIIIII

MILLE

IIII

ann

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0

10.03

IIII

TITI

111.

111

Python

CSS

PHP

Ruby

C++

Shell

Objective-C

C#

R

C

164,852

Quién lo usa

Infraestructura (scripting linux)

Web sites

Math experts

Standalone PC apps

Quien lo usa























Quien no lo usa?

¿Qué esperás?



Gracias!