Web Development using Python!

What is World Wide Web?

- Invented in 1989
- By Tim Berners-Lee
- At CERN Lab
- Automated information-sharing



The first Website!

World Wide Web

The WorldWideWeb (W3) is a wide-area hypermedia information retrieval initiative aiming to give universal access to a large universe of documents.

Everything there is online about W3 is linked directly or indirectly to this document, including an executive summary of the project, Mailing lists, Policy, November's W3 news, Frequently Asked Questions

Pointers to the world's online information, subjects, W3 servers, etc.

on the browser you are using Software Products

A list of W3 project components and their current state. (e.g. Line Mode, X11 Viola, NeXTStep, Servers, Tools, Mail robot, Library)

Details of protocols, formats, program internals etc

Paper documentation on W3 and references.

A list of some people involved in the project.

A summary of the history of the project.

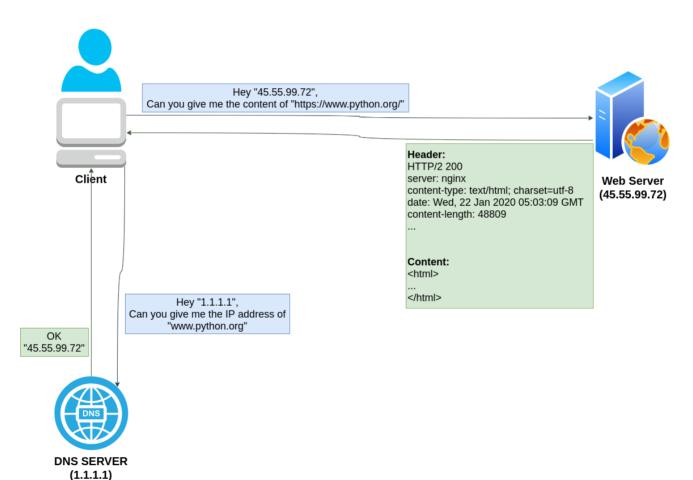
How can I help?

If you would like to support the web..

Getting the code by anonymous FTP, etc.

http://info.cern.ch/

How Web works?



Why Python!?

javascript × 1935014

JavaScript (not to be confused with Java) is a highlevel, dynamic, multi-paradigm, object-oriented, prototype-based, weakly-typed, and interpreted

893 asked today, 5077 this week

python × 1331119

a multi-paradigm, dynamically typed, multipurpose programming language, designed to be quick (to learn, to use, and to understand), and to enforce a

1070 asked today, 6350 this week

jquery × 974972

a Javascript library, consider also adding the Javascript tag. jQuery is a popular cross-browser JavaScript library that facilitates Document Object

162 asked today, 965 this week

java × 1628133

Java (not to be confused with JavaScript, JScript or JS) is a general-purpose, platform-independent, statically typed, object-oriented programming

562 asked today, 3363 this week

php × 1328161

a widely used, high-level, dynamic, object-oriented and interpreted scripting language primarily designed for server-side web development.

428 asked today, 2160 this week

html × 962693

the standard markup language used for structuring web pages and formatting content. HTML describes the structure of a website semantically along with

352 asked today, 1994 this week

c# × 1375407

a high level, statically typed, multi-paradigm programming language developed by Microsoft. C# code usually targets Microsoft's .NET family of tools

460 asked today, 2544 this week

android × 1246370

Google's mobile operating system, used for programming or developing digital devices (Smartphones, Tablets, Automobiles, TVs, Wear,

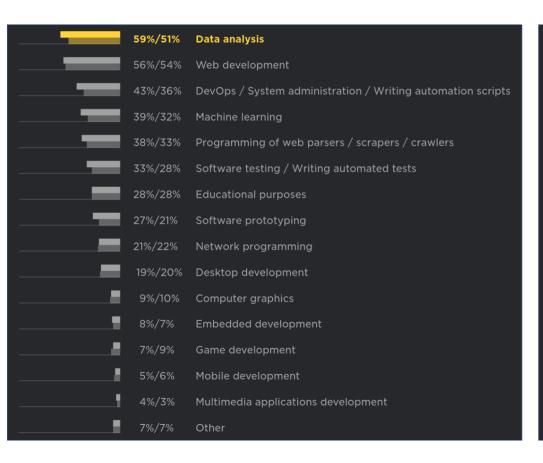
398 asked today, 2354 this week

c++ × 651438

a general-purpose programming language. It was originally designed as an extension to C, and has a similar syntax, but is now a completely different

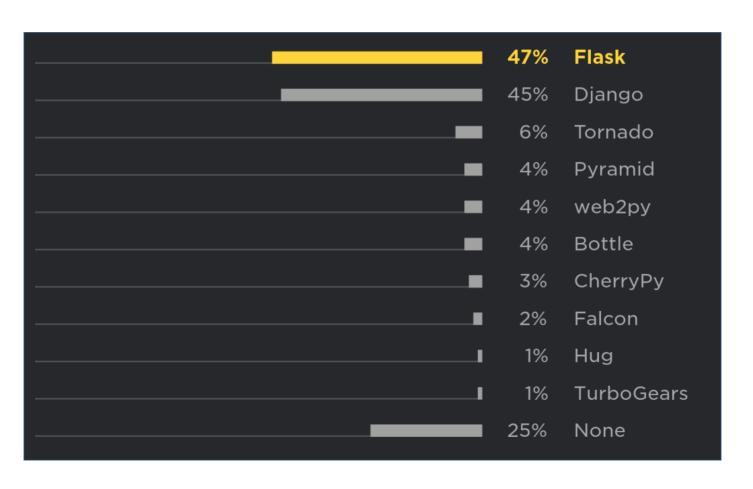
218 asked today, 1159 this week

Python and Web Development





Python's Web Frameworks



Flask

```
1 from flask import Flask
3 app = Flask(__name__)
5 @app.route("/")
6 def hello():
     return "Hello World!"
```

Django

```
from diango.http import HttpResponse
def index(request):
    return HttpResponse('Hello, World!')
from django.contrib import admin
from django.urls import path
from my app import views
urlpatterns = [
    path('', views.index, name="homepage")
```

```
INSTALLED APPS = [
    'django.contrib.admin',
    'django.contrib.auth',
    'django.contrib.contenttypes',
    'django.contrib.sessions',
    'django.contrib.messages',
    'django.contrib.staticfiles',
    'hello world' # New app added!
```

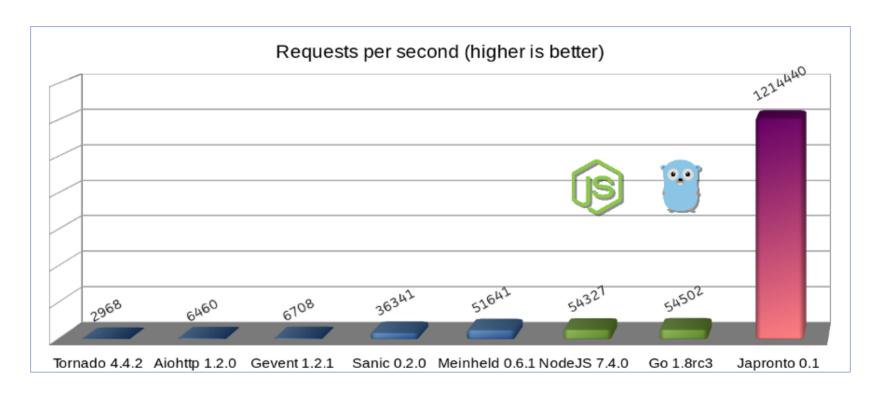
Tornado

```
1 import tornado.httpserver
 2 import tornado.ioloop
 3 import tornado.web
  class MainHandler(tornado.web.RequestHandler):
      def get(self):
          self.write("Hello World!")
11 application = tornado.web.Application([(r"/", MainHandler)])
12 http server = tornado.httpserver.HTTPServer(application)
13 http_server.listen(8888)
14 tornado.ioloop.IOLoop.current().start()
```

Pyramid

```
1 from wsgiref.simple_server import make_server
 2 from pyramid.config import Configurator
 3 from pyramid.response import Response
5 def hello world(request):
      return Response('Hello World!')
8 with Configurator() as config:
      config.add route('hello', '/')
      config.add view(hello world, route name='hello')
      app = config.make wsgi app()
12 server = make_server('0.0.0.0', 6543, app)
13 server.serve forever()
```

Honorable Mention: Japronto



There is no "Best"

- Just start
- Python is Awesome
- Nothing is Perfect
- Choose based on the project.

References

- WikiPedia
- https://home.cern/science/computing/birth-web
- https://stackoverflow.com/tags
- https://www.jetbrains.com/research/python-dev elopers-survey-2018/

Web development with Python is Fun!

Thanks.