Python

As Server-Side Language

Server side programming language — PHP

- Easy to learn

- Traditional server side scripting language

Server side programming language - Python

- Easy to learn

- dynamics, availability, and simplicity
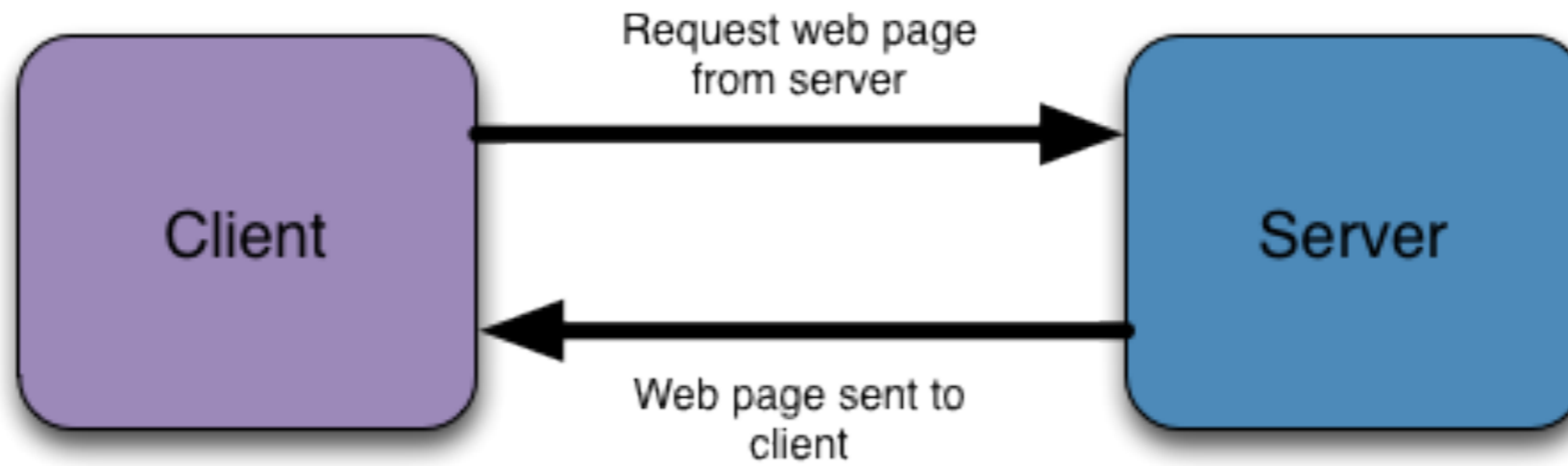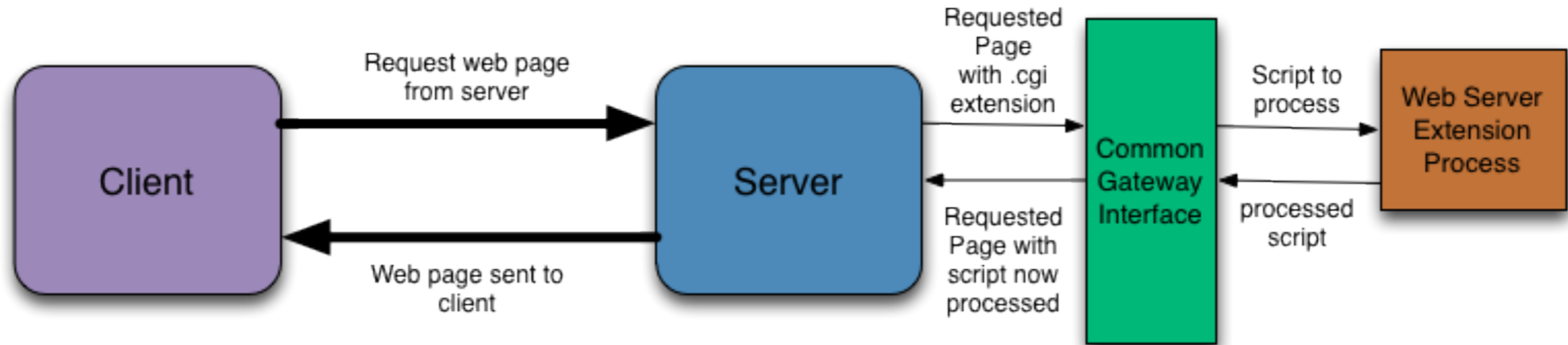

2016 Average Developer Salary in the U.S.

indeed.com estimations(USD)	Language
#1 115,000	Swift
#2 107,000	Python
	Ruby
#3 104,000	C++
#5 102,000	Java
	C
#6 99,000	JavaScript
#7 94,000	C
#8 92,000	SQL
#9 89,000	PHP

made by codementorio
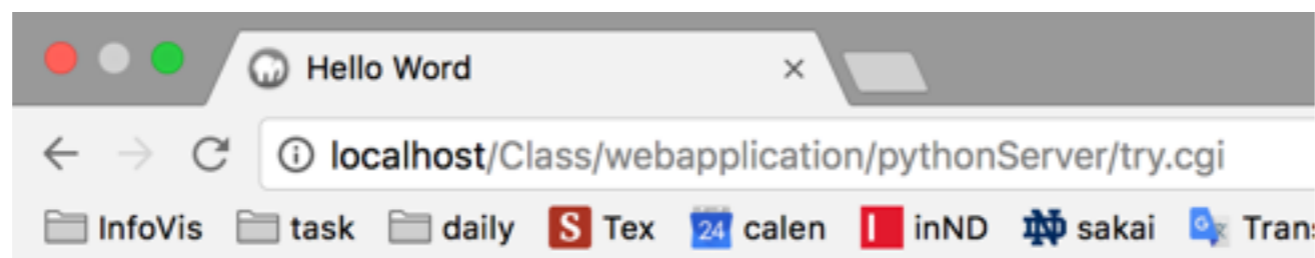
Client-Server System

Client-Server System

CGI

- In order to deliver dynamic content we need to extend the abilities of the web server so that it can do more than merely send static web pages in response to client requests.

Using Python in CGI
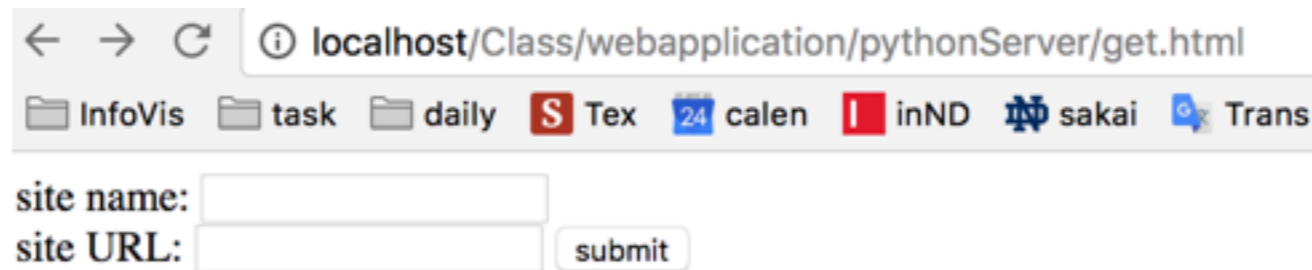
```
try.cgi                    x
1  #!/usr/bin/python
2  # -*- coding: UTF-8 -*-
3
4  print "Content-type:text/html"
5  print
6  print '<html>'
7  print '<head>'
8  print '<meta charset="utf-8">'
9  print '<title>Hello Word</title>'
10 print '</head>'
11 print '<body>'
12 print '<h2>this is my first python cgi</h2>'
13 print '</body>'
14 print '</html>'
```
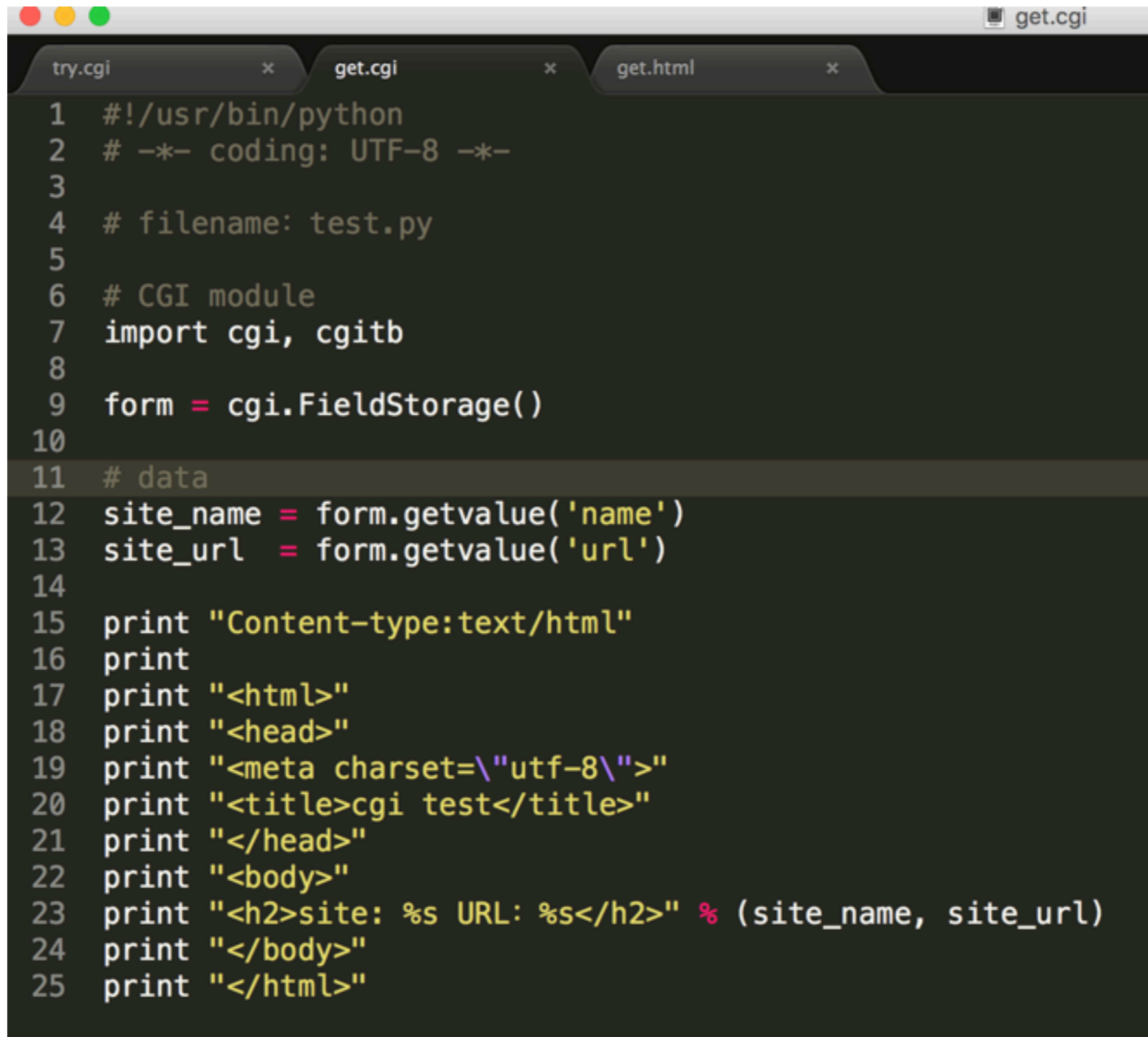
Hello Word   x

localhost/Class/webapplication/pythonServer/try.cgi

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this is my first python cgi

Using Python in CGI

Using Python in CGI


```python
#!/usr/bin/python
# -*- coding: UTF-8 -*-

# filename: test.py

# CGI module
import cgi, cgitb

form = cgi.FieldStorage()

# data
site_name = form.getvalue('name')
site_url  = form.getvalue('url')

print "Content-type:text/html"
print
print "<html>"
print "<head>"
print "<meta charset=\"utf-8\">"
print "<title>cgi test</title>"
print "</head>"
print "<body>"
print "<h2>site: %s URL: %s</h2>" % (site_name, site_url)
print "</body>"
print "</html>"
```
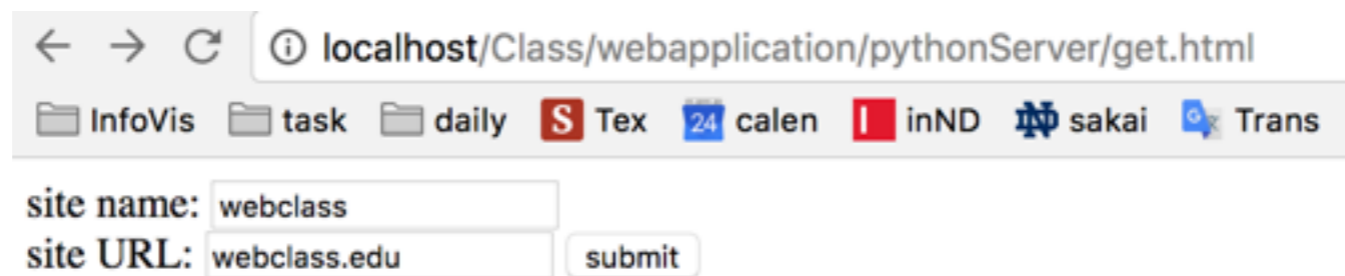
Using Python in CGI

"Most developers use a framework when they use python as their server side programming language"

python web development framework - Django

- Most famous

- You can do everything

- Fantastic community

- Much to learn

- Needs solid background knowledge

python web development framework - Flask

- Light version Django

- Good for small to medium sites

- Support custom features

python web development framework - Web2py

- Different philosophy

- Graphical tools

- Support custom features

flask hello world

```python
hello.py                           ×

1   from flask import Flask
2   app = Flask(__name__)
3
4   @app.route('/')
5   def hello_world():
6       return 'Hello, World!'
```

← → C ⓘ 127.0.0.1:5000

📁 InfoVis 📁 task 📁 daily **S** Tex
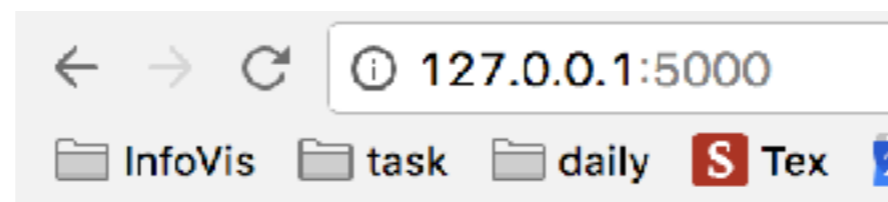
Hello, World!

flask hello world

- Imported the `Flask` class

- Create an instance of this class

```
hello.py                    ×
1   from flask import Flask
2   app = Flask(__name__)
3
4   @app.route('/')
5   def hello_world():
6       return 'Hello, World!'
```

- Use the `route()` decorator to tell Flask what URL should trigger our function.

- Returns the message we want to display in the user's browser.

materials

- Flask Document

- Introduction to python server-side scripting