

Git, Python, Django, Heroku

Startup Camp
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<http://georgik.sinusgear.com>
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Obsah

Git

Python

Django

Heroku

Git

Remote repository



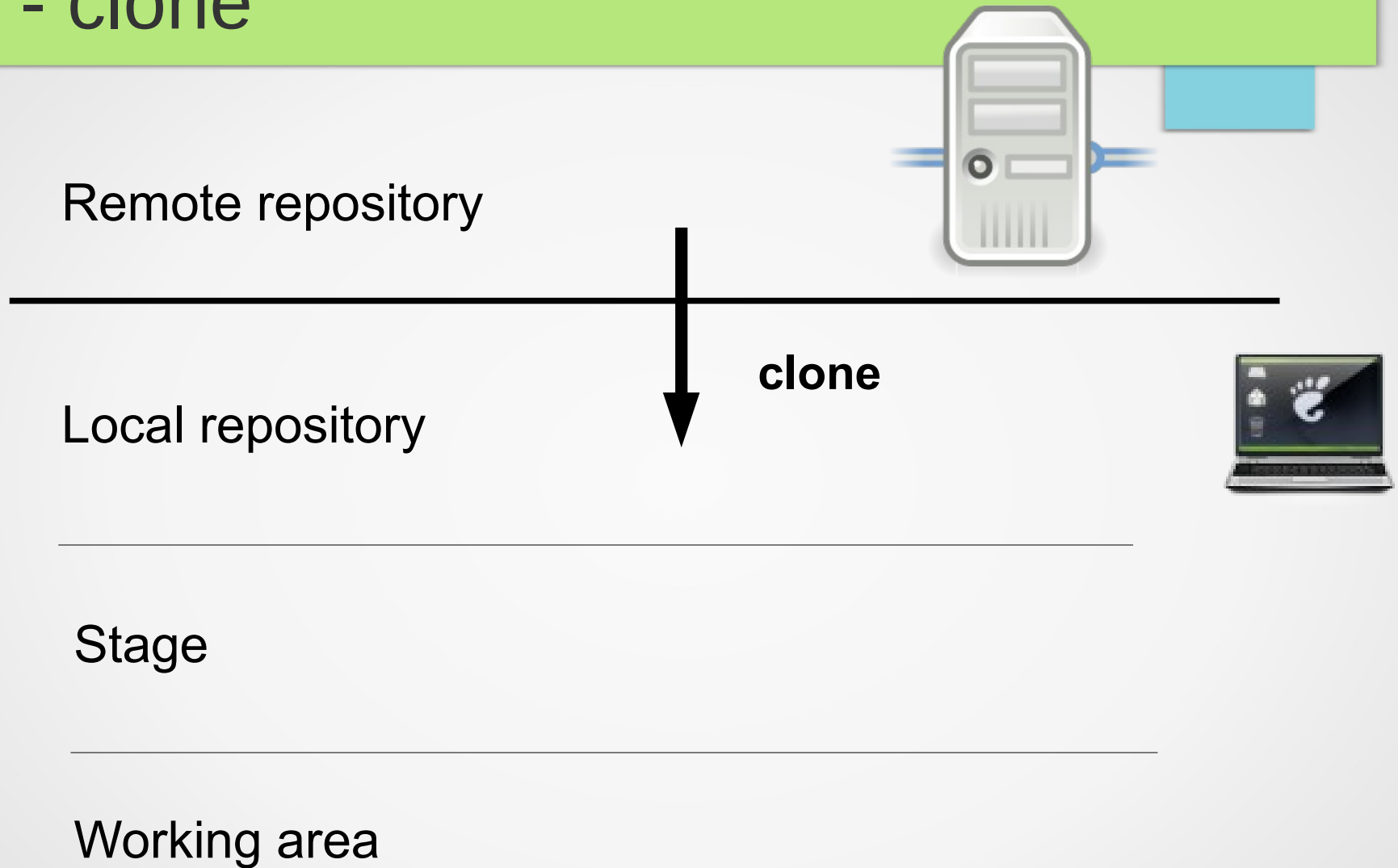
Local repository

Stage



Working area

Git - clone



Git - add

Remote repository



Local repository



Stage

add

Working area



Git - commit

Remote repository



Local repository



commit



Stage

Working area

Git - push

Remote repository



push

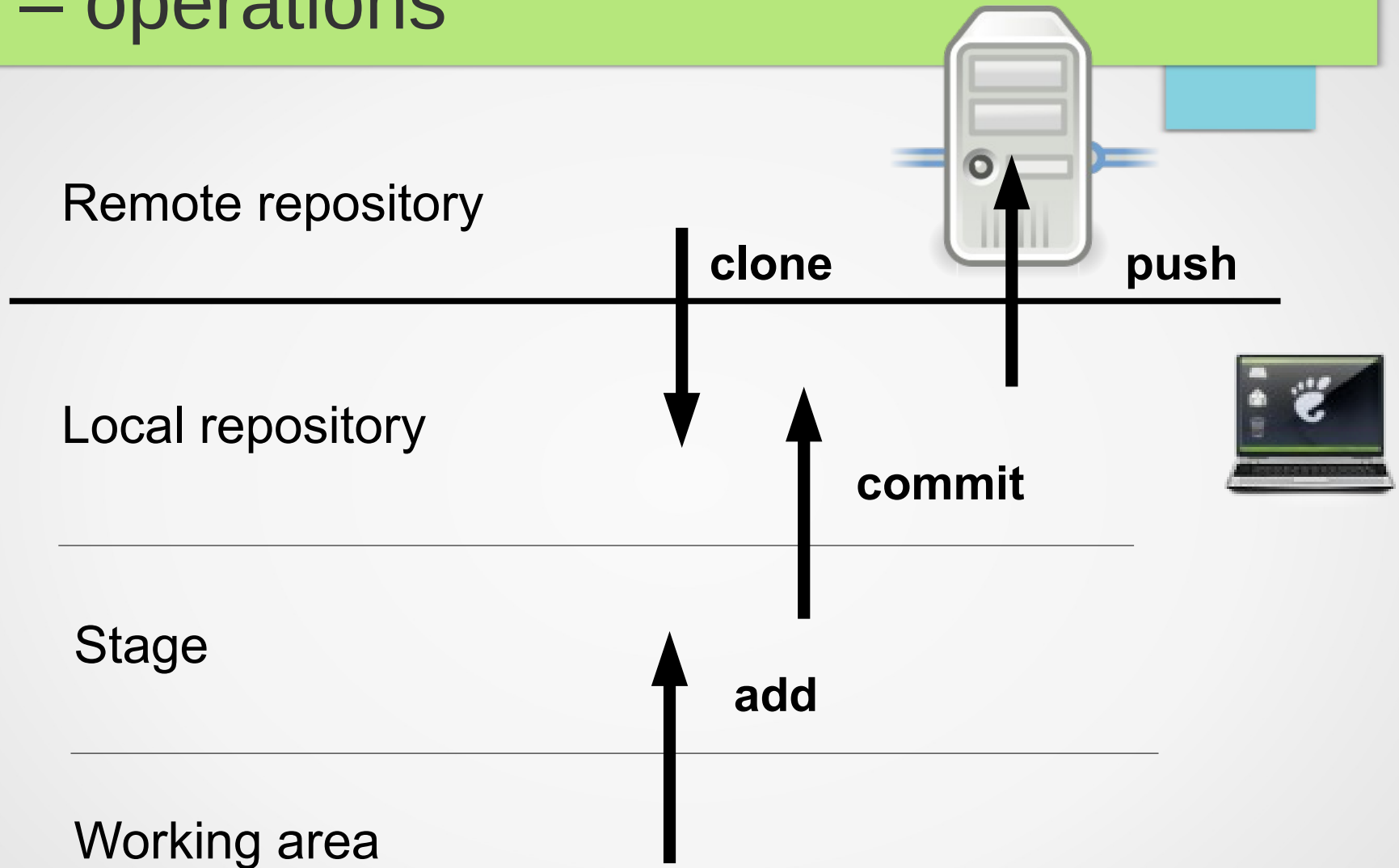
Local repository



Stage

Working area

Git – operations



TortoiseGit



<http://code.google.com/p/tortoisegit/>

GitHub



Set Up Git

A quick guide to help you get started with Git.

1



Create A Repository

Create the place where your commits will be stored.

2



Fork a Repository

Copy a repo to create a new, unique project from its contents.

3



Be social

Follow a friend.
Watch a project.

4

Python



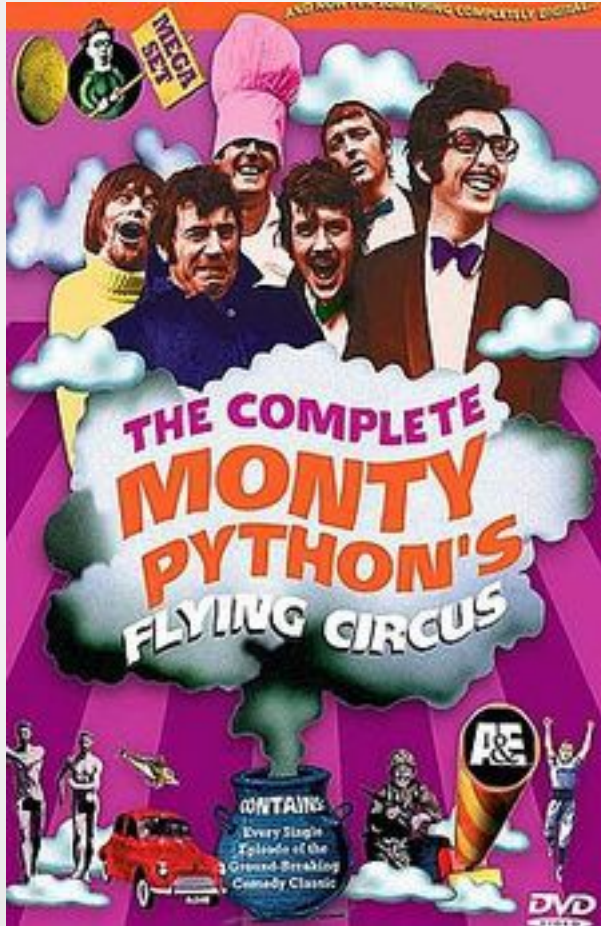
<http://python.org>

Guido van Rossum



Computer programming for everybody.

Monty Python's Flying Circus

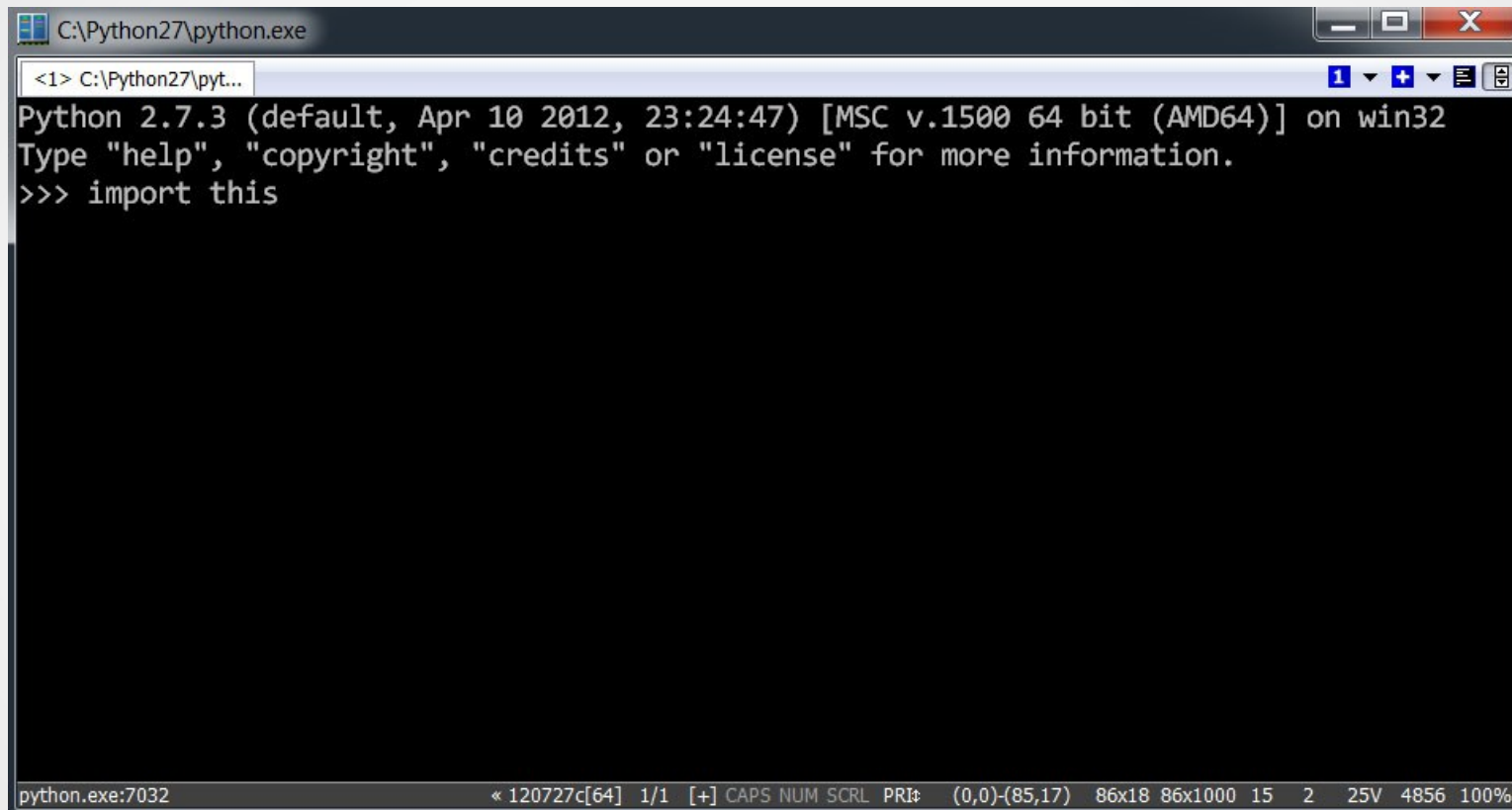


Spam & Eggs

Go web

```
python -m SimpleHTTPServer
```

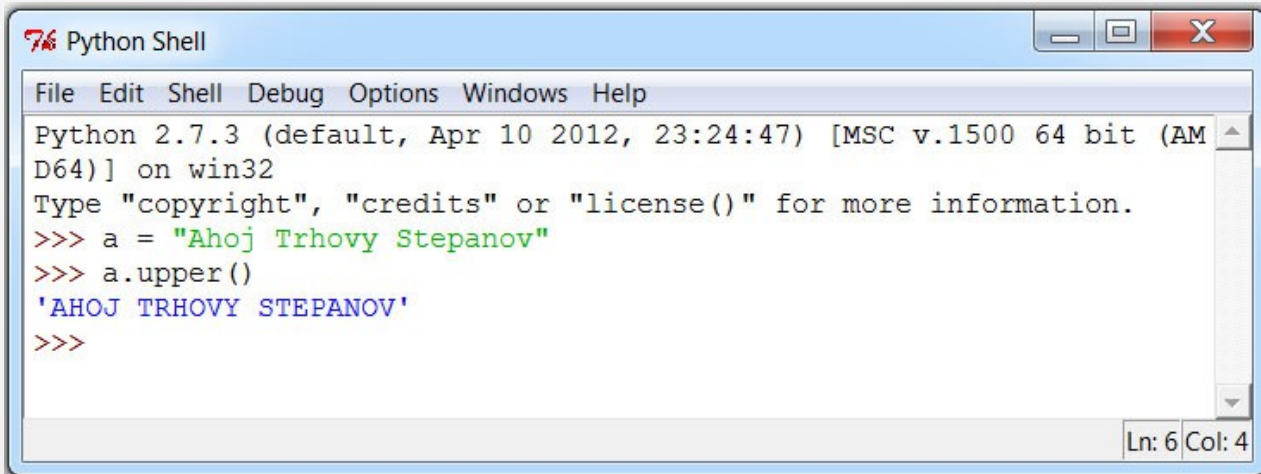
Python Shell



```
C:\Python27\python.exe
<1> C:\Python27\pyt...
Python 2.7.3 (default, Apr 10 2012, 23:24:47) [MSC v.1500 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> import this
```

Lin/Mac - CTRL+D, Win - CTRL+Z - terminate
exit()

IDLE (Python GUI)



```
Python Shell
File Edit Shell Debug Options Windows Help
Python 2.7.3 (default, Apr 10 2012, 23:24:47) [MSC v.1500 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>> a = "Ahoj Trhovy Stepanov"
>>> a.upper()
'AHOJ TRHOVY STEPANOV'
>>>
```

Ln: 6 Col: 4

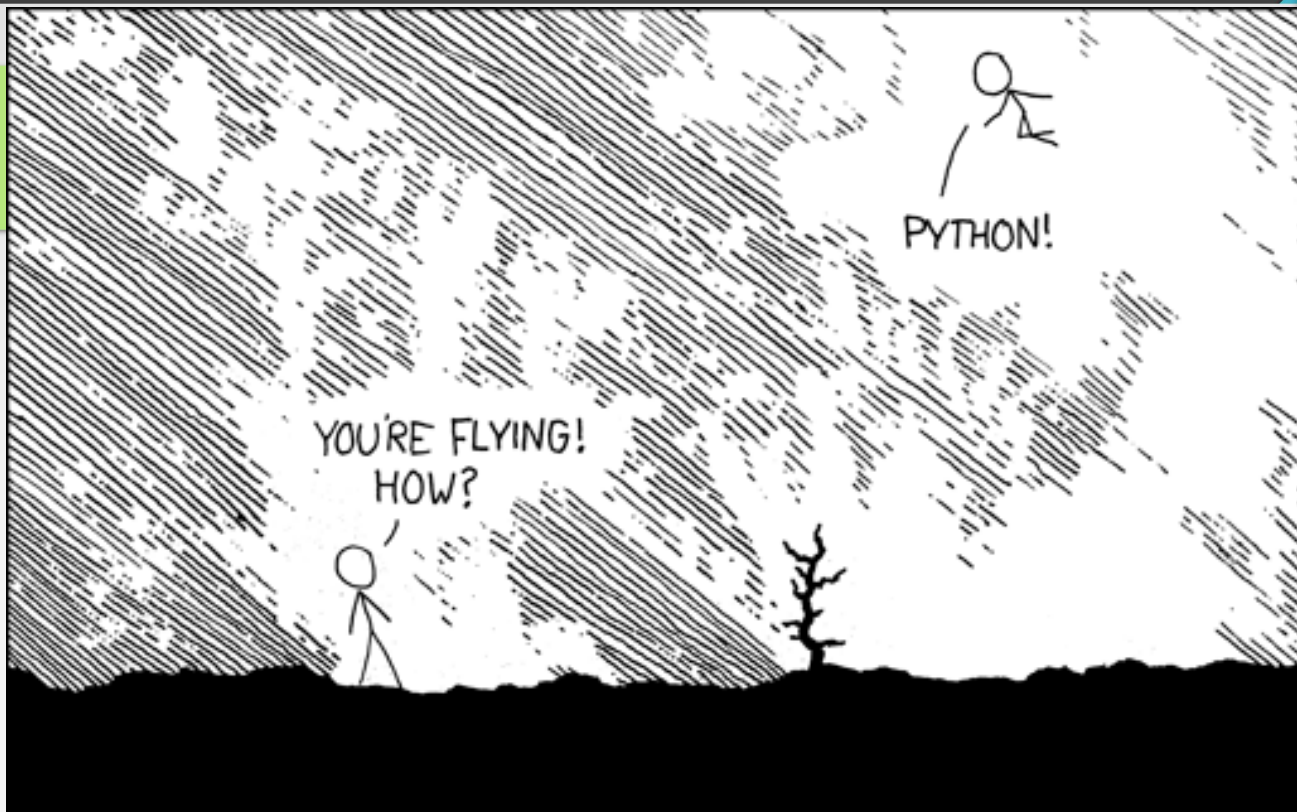
Python 2 or 3?

2.x stable, libraries, frameworks

3.x new syntax, missing part of legacy

Import & Python 3

```
import antigravity
```



I LEARNED IT LAST NIGHT! EVERYTHING IS SO SIMPLE!
HELLO WORLD IS JUST
`print "Hello, world!"`

I DUNNO...
DYNAMIC TYPING?
WHITESPACE?

COME JOIN US!
PROGRAMMING IS FUN AGAIN!
IT'S A WHOLE NEW WORLD
UP HERE!



BUT HOW ARE YOU FLYING?

I JUST TYPED
`import antigravity`

THAT'S IT?

... I ALSO SAMPLED EVERYTHING IN THE MEDICINE CABINET FOR COMPARISON.



BUT I THINK THIS IS THE PYTHON.

Django

django

<http://djangoproject.com>

The Web framework for perfectionists
(with deadlines).

Django makes it easier to build better Web
apps more quickly and with less code.

Python 2 in Django context



Experimental Python 3 support

Recommended: Python 2.7

Sample Django

https://github.com/georgik/try_git

```
git clone git@github.com:georgik/try_git.git
```

Start sample Django

```
cd try_git
```

```
cd hellodjango
```

```
python manage syncdb
```

```
python manage.py runserver
```

```
http://localhost:8000/admin
```

Python/Django advanced



Programming philosophy

Multi-paradigm prog. Lang.

Object Orientated Programming
Structured Programming
Functional Programming
Aspect Oriented Programming

IDE

- IntelliJ Idea or PyCharm
- Eclipse – pyDev
- Boa Constructor ;-)
- etc...

Python 01-bootstrap examples

Print

Input

Arguments

Python 02-data examples

List

Dictionary

Excel

Virtualenv

<http://www.virtualenv.org>

Isolated environment

easy_install (old fashioned)

Win: Python27\Scripts

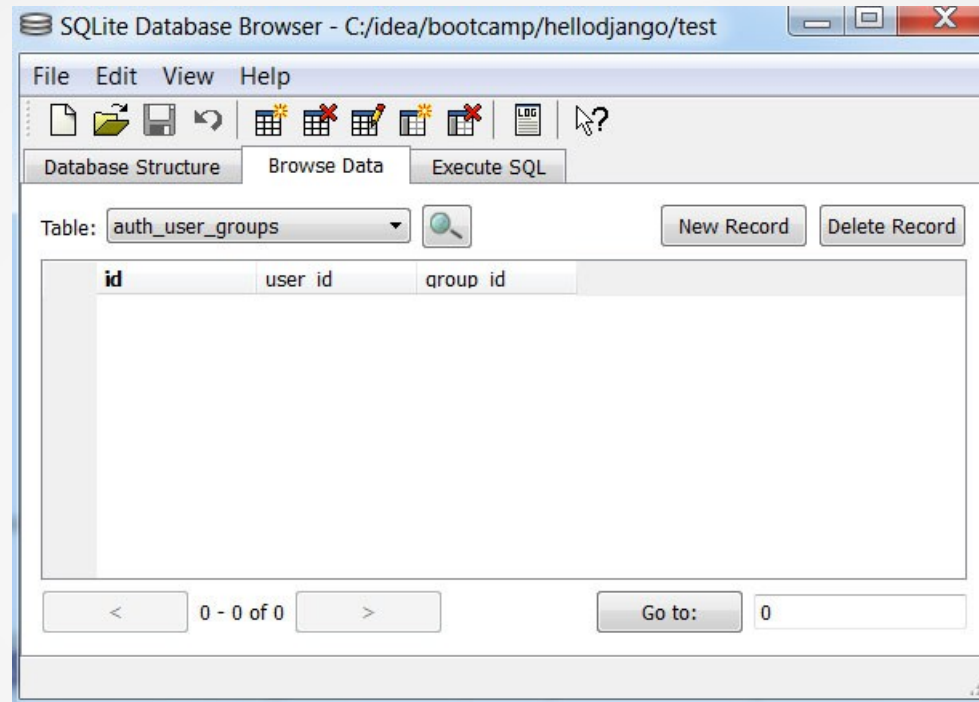
easy_install pip

pip

```
pip install virtualenv
```

<http://pypi.python.org/pypi>

Sqlite browser



<http://sourceforge.net/projects/sqlitebrowser/files/>

Templates – Wat?

```
TEMPLATE_DIRS = (  
    # Put strings here, like "/home/html/django_templates" or  
    # "C:/www/django/templates".  
    # Always use forward slashes, even on Windows.  
    # Don't forget to use absolute paths, not relative paths.  
)
```

Templates

```
import os  
import django
```

```
SITE_ROOT = os.path.dirname(os.path.realpath(__file__))
```

```
TEMPLATE_DIRS = (  
    os.path.join(SITE_ROOT, 'templates')  
)
```

7 tips for Python & Django - <http://goo.gl/svZ50>

cURL



<http://curl.haxx.se/>

Test

```
curl http://localhost
```

Heroku

Heroku Toolbelt