

Python ☐☐

Resource

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- [Documentation](#)
- [web.py](#) ☐☐
- pip → buildout

Python Imaging Library (PIL)

- ☐☐
- [Python Imaging Library Handbook](#)

wxPython

<http://wxpython.org/>

☐☐ Apache + mod_wsgi + web.py

Mac OS Mountain Lion (10.8)

```
☐☐☐☐ brew ☐☐ mod_wsgi☐
```

```
brew tap homebrew/apache
brew install mod_wsgi
```

```
☐☐☐☐☐☐ mod_wsgi ☐☐☐☐☐☐☐☐☐☐☐☐☐☐
```

```
env:
```

```
/Applications/Xcode.app/Contents/Developer/Toolchains/OSX10.8.xctoolchain/usr
/bin/cc: No such file or directory
apxs:Error: Command failed with rc=65536
```

```
☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐
```

```
sudo ln -s
```

```
/Applications/Xcode.app/Contents/Developer/Toolchains/XcodeDefault.xctoolchain/  
/Applications/Xcode.app/Contents/Developer/Toolchains/OSX10.8.xctoolchain
```

```
mod_wsgi
```

```
Apache
```

```
LoadModule wsgi_module /usr/local/Cellar/mod_wsgi/3.4/libexec/mod_wsgi.so  
AddHandler wsgi-script .py  
# HTML HTML  
AddType text/html .py
```

```
web.py
```

```
sudo easy_install web.py
```

```
mod_wsgi + web.py
```

```
import web
```

```
urls = (  
    './.*', 'hello',  
)
```

```
class hello:  
    def GET( self ):  
        return "Hello, world."
```

```
app = web.application( urls, globals() )  
application = app.wsgifunc()
```

```
test.py http://localhost/~username/test.py/ /web.py
```

```
Apache
```

```
WSGIScriptAlias /test /Users/username/Sites/test.py/  
Alias /test/images /Users/username/Sites/images/
```

```
http://localhost/test
```

```
web.py web server Apache mod_wsgi code
```

```
if __name__ == '__main__': # No socket could be created  
    app = web.application( urls, globals() )  
    app.run()
```

```
python test.py
```

```
http://localhost:8080 9090
```

```
python test.py 9090
```

██ Mako <http://www.makotemplates.org/>██

```
sudo easy_install Mako
```

pip

```
██ easy_install ███
```

```
easy_install pip
```

```
████████ https://raw.githubusercontent.com/pypa/pip/master/contrib/get-pip.py██████
```

```
python get-pip.py
```

flask

RE

```
█████
```

```
import re
```

```
pattern = r'(\d+)\.(\d+)\.(\d+)\.(\d+)'
```

```
po = re.compile( pattern ) # Generate pattern object
```

```
mo = po.match( '192.168.0.1' ) # Generate match object if success
```

```
if mo:
```

```
    print mo.groups() # ('192', '168', '0', '1')
```

```
    print mo.group( 0 ) # 192.168.0.1
```

```
    print mo.group( 1 ) # 192
```

```
    print mo.group( 2 ) # 168
```

```
    print mo.group( 3 ) # 0
```

```
    print mo.group( 4 ) # 1
```

```
    print mo.group( 5 ) # Error: IndexError
```

```
import re
```

```
po = re.compile( 'xx(YY)xx' )
```

```
list = po.findall( data )
```

```
print( list )
```

urllib2

HTTP header

```
import urllib2

request = urllib2.Request( 'http://www.google.com' )
request.add_header( 'User-agent', 'xxx' )
f = urllib2.urlopen( request )
print( f.headers['Date'] )
f.close()
```

□□□□

```
remotefile = urllib2.urlopen( url )
localFile = open( 'download', 'wb' )
localFile.write( remotefile.read() )
localFile.close()
remotefile.close()
```

□□□□

□□□□□□□□ Python □ poster □□□<https://pypi.python.org/pypi/poster/>

```
from poster.encode import MultipartParam
from poster.encode import multipart_encode
from poster.streaminghttp import register_openers

register_openers()

datagen, headers = multipart_encode( { 'file' : open( 'test.png', 'rb' ),
'comment' : 'test' } )
request = urllib2.Request( 'http://test.com/upload.php', datagen, headers )
urllib2.urlopen( request )
```

□□□□□□□□□□ MIME Type□

```
register_openers()

img = MultipartParam.from_file( 'file', 'test.png' )
img.filetype = 'application/octet-stream'
comment = MultipartParam( 'comment', 'test' )

datagen, headers = multipart_encode( [ img, comment ] )
request = urllib2.Request( 'http://test.com/upload.php', datagen, headers )
```

```
urllib2.urlopen( request )
```

hashlib

```
md5  sha lib  hashlib
```

```
import hashlib
```

```
print( hashlib.sha1( 'test' ).hexdigest() )  
print( hashlib.md5( 'test' ).hexdigest() )
```

Misc

```
sys
```

```
sys.argv  item  __file__
```

```
import
```

```
if __name__ != '__main__':  
    print 'used by import'
```

```
str
```

```
a = 'test'  
b = a.encode( 'utf-8' ) # ASCII to UTF-8  
a = b.encode( 'ascii' ) # UTF-8 to ASCII
```

```
time
```

```
import time  
print( time.strftime( '%H:%M:%S' ) )
```

```
DOS Linux Mac
```

```
po = re.compile( '\r\n|\n|\r' ) # Process DOS, *nix and Mac line break
```

```
lines = po.split( data )

# 删除 DOS 换行符
for i in range( 0, len( lines ) - 1 ):
    lines[i] += '\r\n'
if '' == lines[-1]:
    del lines[-1]
```

URL 转义

foo@bar.com 转义为 foo%40bar.com

```
import urllib
print( urllib.quote( 'foo@bar.com' ) )
```

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