

CS 683 Emerging Technologies
Fall Semester, 2006
Doc 4 Python - More Modules
Sep 7, 2006

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Modules and Executable code

file eli.py

```
x = 0
y = [1, 2]
print 'Running module "eli"'

def whitney():
    print 'whitney'

def printValues():
    print x , y
```

```
import eli
eli.whitney()
from eli import y
print y
```

Output

```
Running module "eli"
whitney
[1, 2]
```

Reloading Modules

```
x = 0    file eli.py
y = [1, 2]
print 'Running module "eli"'

def whitney():
    print 'whitney'

def printValues():
    print x , y
```

```
import eli
eli.y[0] = 'cat'
eli.printValues()

reload(eli)
eli.printValues()
```

Output

```
Running module "eli"
0 ['cat', 2]
Running module "eli"
0 [1, 2]
```

Explain this

```
x = 0    file eli.py
y = [1, 2]
print 'Running module "eli"'

def whitney():
    print 'whitney'

def printValues():
    print x , y
```

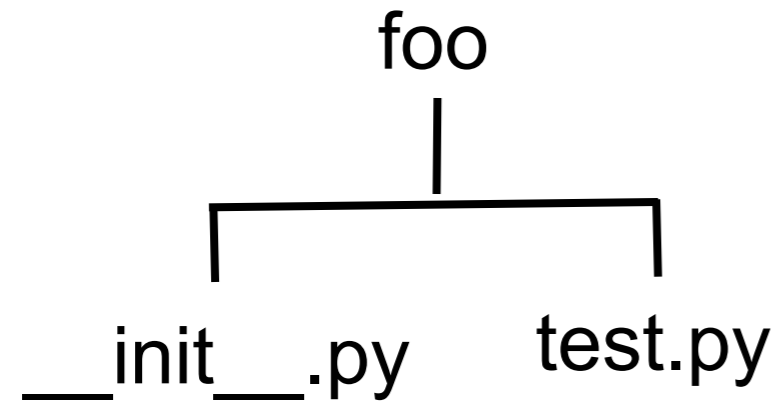
```
from eli import x, y, printValues

printValues()
y[0] = 'cat'
x = 'dog'
printValues()
```

Output

```
Running module "eli"
0 [1, 2]
0 ['cat', 2]
```

Packages - Nested Modules



In a directory in PYTHONPATH create a subdirectory, call it foo

In foo create an empty file:

`__init__.py`

Any .py file in foo is module