# Imperative programming with Python

January 2012 project: Class #9

Facundo Carreiro

ILLC, University of Amsterdam

January 25th, 2012

# Today's agenda

- Regular expressions
- 2 Evaluation forms
- How to write modules
- Groups and final projects

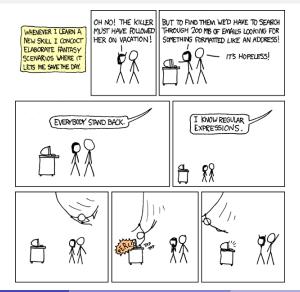
# Regular expressions

# Ready, set...

(read Beckles & Downling's slides or the subset I picked)

#### What to do with what we've learnt?

#### By the XKCD webcomic



### **Evaluation forms**

# Please fill them

(while you take a break)

### Creating modules

In the (small) AH example we had a lot of classes

```
ullet System 	o system.py
```

- ullet Product o product.py
- ullet Discount o discount.py
- TwoForOneDiscount → discount.py
- ullet PercentageDiscount o discount.py
- ullet Reader o reader.py
- ullet BuyingContext o system.py/bc.py? depends on size
- . . .

it would be better organized in Modules (files!).

### Using our modules

We save all files in the same directory and use them as follows

```
# in product.py
class Product(object):
    def __init__(self,...):
# in discount.py
class Discount(object):
class TwoForOneDiscount(Discount):
class PercentageDiscount(Discount):
    . . .
# in system.py
import product, discount
                          # amona others
from reader import Reader
                               # amona others
class System(object):
    def loadProductsFromFile(self):
        self.product_list[barcode] = product.Product(datafromfile)
```

# Groups and final project

# Time to talk with your classmates!

```
(come on, don't be afraid)

(I mean it...)
```

#### References

UCS course on Python Regular Expressions

http://www.ucs.cam.ac.uk/docs/course-notes/unix-courses/PythonRE/

• Python re module http://docs.python.org/library/re.html

 Python regular expressions HOWTO http://docs.python.org/howto/regex.html#regex-howto

regexp.info http://regexp.info

 Python RegEx Tool http://www.pythonregex.com/