

# CS150 - More on Point class

Note Title

2/20/2012

## Announcements

- Should have all quizzes.
- HW due tomorrow.
- Review Friday & test in 1 week.

# Quiz Recap

Quiz 5, #2

hello(4) :  $\longrightarrow$   $x=4$

Hello!

|

Hola!

|

Adios!

|

Hola!

|

Adios!

|

Goodbye!

~~$y = \alpha$~~   
||

~~$y = \alpha$~~   
|

Hola(2) {

Hola(2) {

# Classes

- Wrote a simple point class.

- Syntax:

```
class ClassName:
```

```
    # constructor
```

```
    def __init__(self, input1):
```

```
        [
```

```
            def otherFunction(self, ...):
```

```
                [
```

## A tip

The option `-i` opens python interpreter after running our code.

Ex: `python -i SimplePoint.py`

(Then can load & use point class more quickly.)

Today

Work day on HW4

## Adding to Point class

- Method scale:  
Given an int or float,  
multiply  $x + y$  by that amount
- Method distance:  
Compute distance between 2 points.

Writing print for our class

print casts things to strings

Write a function to cast it to string.

```
def __str__(self):
```



How should we output a point?

## Operator overloading

Both `--init--` and `--str--` are examples of operator overloading.

We are taking an existing function and tailoring it to our class.

`pt + p2 :` `--add--`