# Welcome Back to CS 5 Black!

#### **PENGUIN GETS \$1B IN FUNDING**

San Jose (AFP): A penguin who was chased out of a Harvey Mudd College computer science lab by an angry mob has turned the experience into a startup with a billion dollars in venture funding. The new company will market an app that helps penguins track and dodge predators. "The market is huge," said one investor. "Antarctica is full of penguins and they don't have any way to know where the sharks are. We expect massive returns."



The founding penguin will celebrate in a local sushi restaurant.



## **Defining Your Own Functions!**

def dbl(x): dbl 2 \* x х return 2 \* xNotice the def dbl(myArgument): indentation. This is done using "tab" myResult = 2 \* myArgument and it's absolutely return myResult necessary! Be sure to set your editor to indent using spaces!

## Python and the Command Line

bow:2:1169> python3 Python 3.4.5 (default, Jul 03 2016, 13:32:18) [GCC] on linux Type "help", "copyright", "credits" or "license" for more information. 'Hello, world' >>> 7\*6 42 >>> import math >>> math.pi 3.141592653589793 >>> equator = 40000 / 1.609 >>> equator / pi / 2 Traceback (most recent call last): File "(stdin)", line 1, in (module) NameError: name 'pi' is not defined >>> equator / math.pi / 2 3956.6176032789394 >>> from math import pi >>> equator / pi 7913.235206557879 >>> quit() bow:2:1170>

Python makes it easy to experiment!

## Docstrings!

def dbl(x):
"""This function takes a number x
and returns 2 \* x"""
return 2 \* x





### reduce-ing with Python...











