Do Now

Wednesday, July 1, 2015

**Reviewing: APIs, you are a real programmer**

1) What's the difference between an API and a normal web page?

2) If I have a variable called url, what are the two steps to opening it using urllib2 and reading out the contents?

3) When an API sends over dictionaries or lists or integers or anything, it's all just *text*. What's the format this text uses to represent the data inside?

4) Here is some strange and unknown code! Using your knowledge of Python and the power of Google, try to figure out what each line might accomplish.

import cv2

camera\_port = 0

camera = cv2.VideoCapture(camera\_port)

face\_cascade = cv2.CascadeClassifier('haarcascade\_default.xml')

while(True):

retval, img = camera.read()

gray = cv2.cvtColor(img,cv2.COLOR\_BGR2GRAY)

faces = face\_cascade.detectMultiScale(gray, minSize=(20,20))

for (x,y,w,h) in faces:

cv2.rectangle(img,(x,y),(x+w,y+h),(255,0,0),2)

cv2.imshow('frame', img)

if cv2.waitKey(1) & 0xFF == ord('q'):

break