**Challenge 7**

[www.pythonchallenge.com/pc/def/oxygen.html](http://www.pythonchallenge.com/pc/def/oxygen.html)



The thing to notice here is the shades of gray bar across the middle of the picture.

The idea is to look at the the pixels in that bar and see if that reveals any clues. I’ve been working on **opencv** for a while, that’s the module I use. The pixels are in blue / green / red order. The image is put into a numpy array and can examined there.

After a little analysis, the gray bar appears to be on lines 43-51. The blocks are 7 pixels wide.

Going to the first pixel in each block of the gray, a list of the blue values can be converted to a string (one char for each value. The string gives a message: smart guy, you made it. the next level is [105, 110, 116, 101, 103, 114, 105, 116, 121]

Converting those numbers to a string gives ‘integrity’ which reveals next challenge.