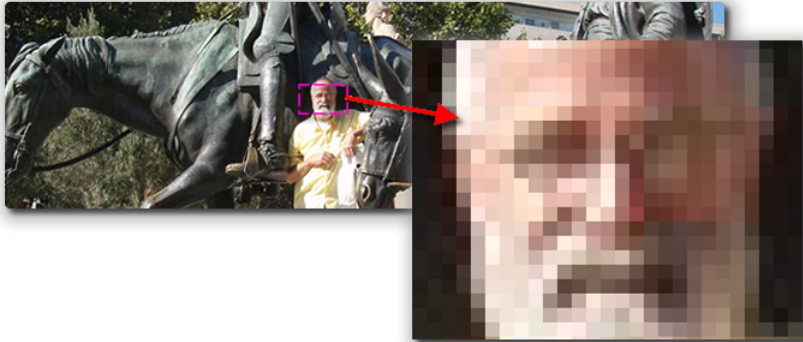


Digital Images

In this lesson we'll look at **processing digital images**. Here, for instance, is a picture that my wife took on vacation in Madrid, of me standing in front of the statue of Don Quixote and Sancho Panza.



Zooming in on my face, we can see that the image is actually made up of many square "**pixels**", each showing one color.

- Each pixel is a small square that shows a single color
- An 800 x 600 image is 800 pixels wide by 600 pixels high, which is 480,000 pixels in all (0.5 megapixels).
- The digital camera in your phone produces images with several megapixels per image. For instance, a 8000 x 6000 pixel image would be about 5 megapixels. The iPhone 13 camera is 12 megapixels

Every pixel has an **x,y** coordinate that identifies its location within the image grid.



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