

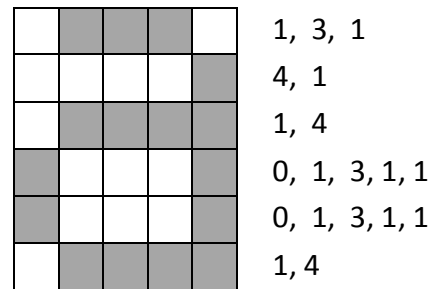
Digital pictures

Computers have to use numbers for everything they do. In order to store and transmit pictures, computers use numbers to code the pictures. Digital cameras, smart phones, and other electronic gadgets do it, too.

Computer screens are divided into a grid of small dots called **pixels**. "Pixel" comes from *picture elements*. To keep things simple, think about a black and white picture, so each pixel is either black or white.

Example: a small letter "a"

Note that the first number always is about white pixels, so **if the first pixel is black, we need to start with 0!**



[In colour? A separate number is used to store that information.]

How would a computer code this?

