

# Answers to the Intro to Open CV Assignment

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1. OpenCV stores images using the Mat class.
2. `image.shape` returns a tuple containing the number of rows, columns, and channels in `image`.
3. Functions in python are written like this:

```
def functionName (arg 1, arg2, arg3, areYouGettingTheIdea):  
    # make sure you indent once you finish the function delcaration  
  
    #  
    # code within the function goes here!  
    #  
  
    return optionalVal
```

4. It depends on where you decide to look! A function in Python always execute using the same set of arguments defined in the the fuction definition. However, a programmer does not have to pass in every argument to the function if they have taken advantage of default values. For instance, consider the function definition below:

```
def exampleFunction(SEED, lab = "awesome!"):  
    ...
```

When the program calls this function, it is required to pass in at least one argument so that "SEED" has a value. They do not need to pass in two arguments because "lab" has a default value of "awesome!". However, the function is free to take two parameters. In this case, "lab" will be assigned whatever the second argument in the calling code is.

NOTE: If default values are used for some arguments in a function definition, those arguments must be listed consecutively as the last arguments in the definition.

5. Here are two methods that can be used with list functions:  
sort(): returns a sorted version of the input list  
any(): checks if any of the list items are logically equivalent to true