**Python Basics with numpy (optional)**

Welcome to your first (Optional) programming exercise of the deep learning specialization. In this assignment you will:

* Learn how to use numpy
* Implement some basic core deep learning functions such as the softmax, sigmoid, dsigmoid, etc.
* Learn how to handle data by normalizing inputs and reshaping images.
* Recognize the importance of vectorization.
* Understand how python broadcasting works.