**Logistic Regression with a Neural Network mindset**

Welcome to the first (required) programming exercise of the deep learning specialization. In this notebook you will build your first image recognition algorithm. You will build a cat classifier that recognizes cats with 70% accuracy!



As you keep learning new techniques you will increase it to 80+ % accuracy on **cat vs. non-cat** datasets. By completing this assignment you will:

* Work with logistic regression in a way that builds intuition relevant to neural networks.
* Learn how to minimize the cost function.
* Understand how to derivatives of the cost are used to update parameters.