coursera   (?) Aide

Updates to Assignment

If you were working on the older version:

> ⚠️ Il semblerait que le fuseau horaire de votre
> ordinateur ne corresponde pas à celui de
> votre compte Coursera, paramétré sur
> ~~American Los Angeles~~ ✕

- Please click on the "Coursera" icon in the top right to open up the folder directory.
- Navigate to the folder: Week 3/ Planar data classification with one hidden layer. You can see your prior work in version 6b: "Planar data classification with one hidden layer v6b.ipynb"

List of bug fixes and enhancements

- Clarifies that the classifier will learn to classify regions as either red or blue.
- compute_cost function fixes np.squeeze by casting it as a float.
- compute_cost instructions clarify the purpose of np.squeeze.
- compute_cost clarifies that "parameters" parameter is not needed, but is kept in the function definition until the auto-grader is also updated.
- nn_model removes extraction of parameter values, as the entire parameter dictionary is passed to the invoked functions.

Planar data classification with one hidden layer

Welcome to your week 3 programming assignment. It's time to build your first neural network, which will have a hidden layer. You will see a big difference between this model and the one you implemented using logistic regression.

You will learn how to:

- Implement a 2-class classification neural network with a single hidden layer
- Use units with a non-linear activation function, such as tanh
- Compute the cross entropy loss
- Implement forward and backward propagation

1 - Packages

Let's first import all the packages that you will need during this assignment.

- numpy (https://www.numpy.org/) is the fundamental package for scientific computing with Python.
- sklearn (http://scikit-learn.org/stable/) provides simple and efficient tools for data mining and data analysis.
- matplotlib (http://matplotlib.org) is a library for plotting graphs in Python.
- testCases provides some test examples to assess the correctness of your functions
- planar_utils provide various useful functions used in this assignment