

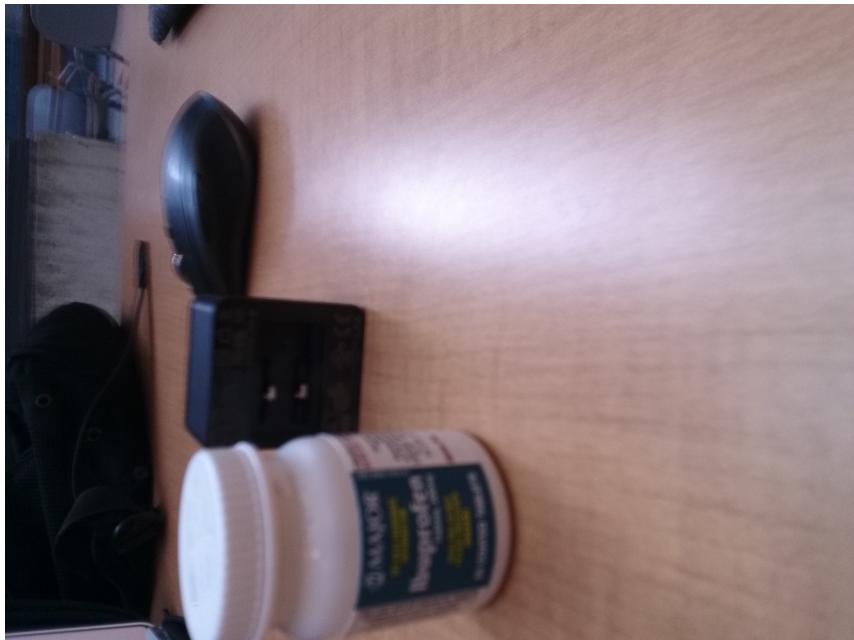
Homework 5 Depth from Focus

Yongchi Zhang

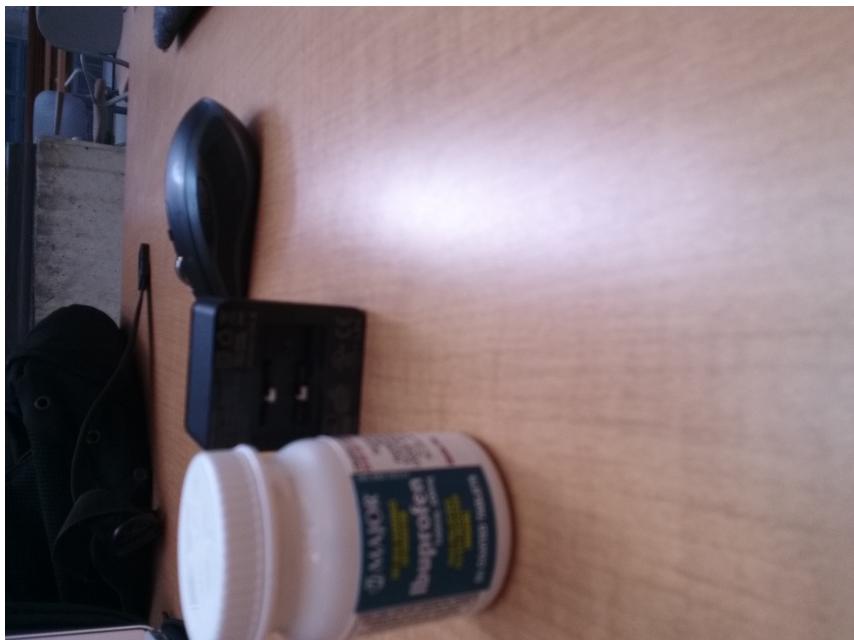
1. Implement an android function to capture a focal stack

The code are in the zip files.

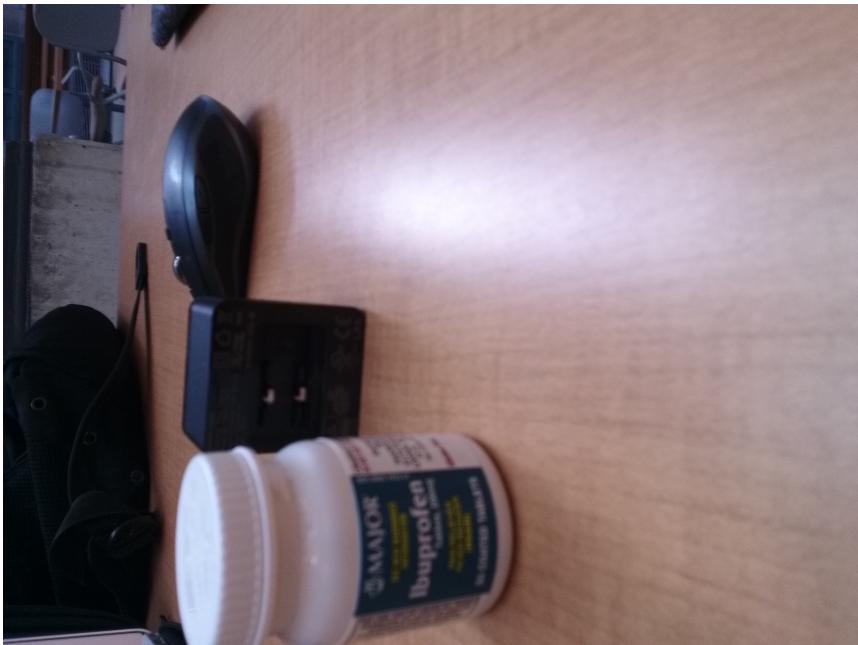
Focus distance: 1.0



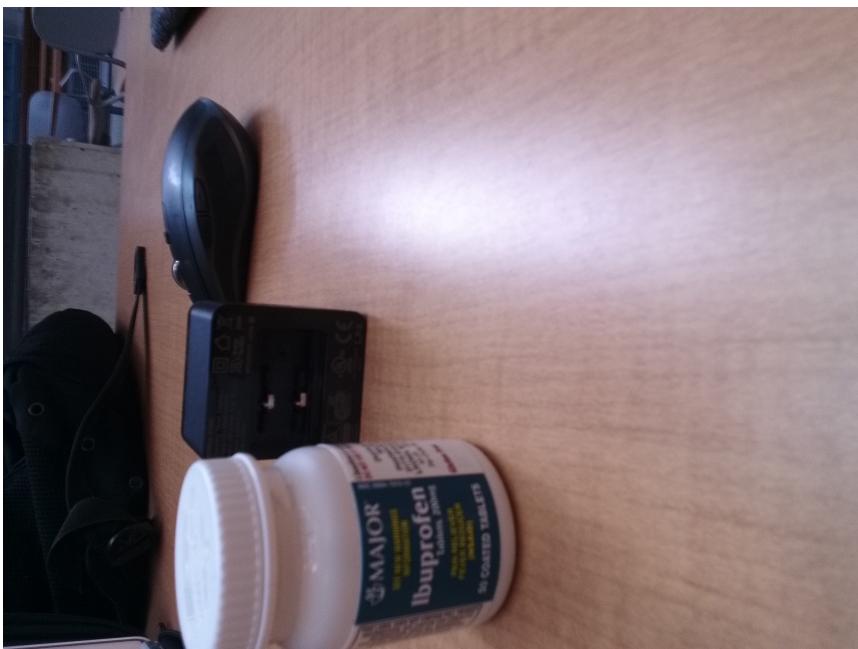
Focus distance: 1.5



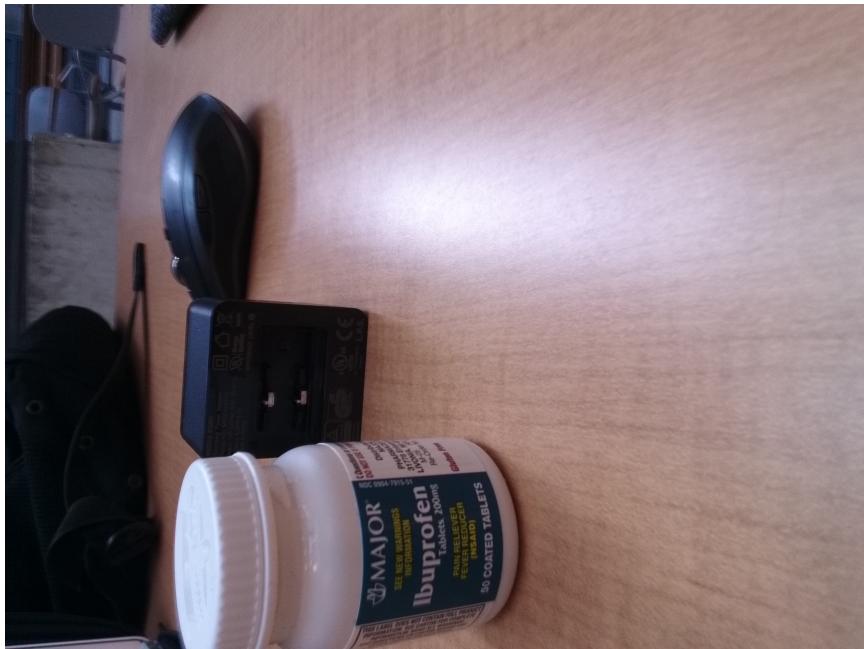
Focus distance: 2.25



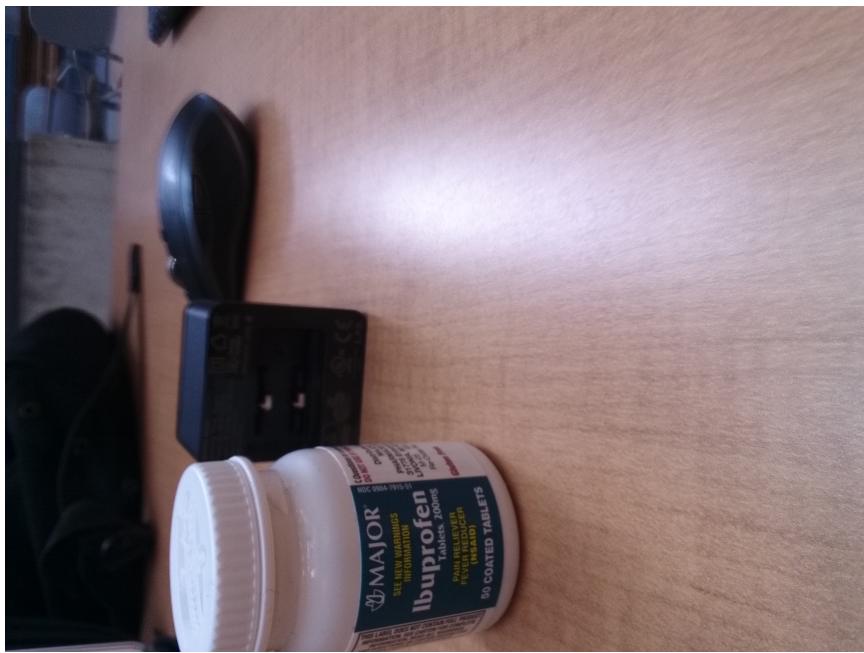
Focus distance: 3.375



Focus distance: 5.0625



Focus distance: 7.59375

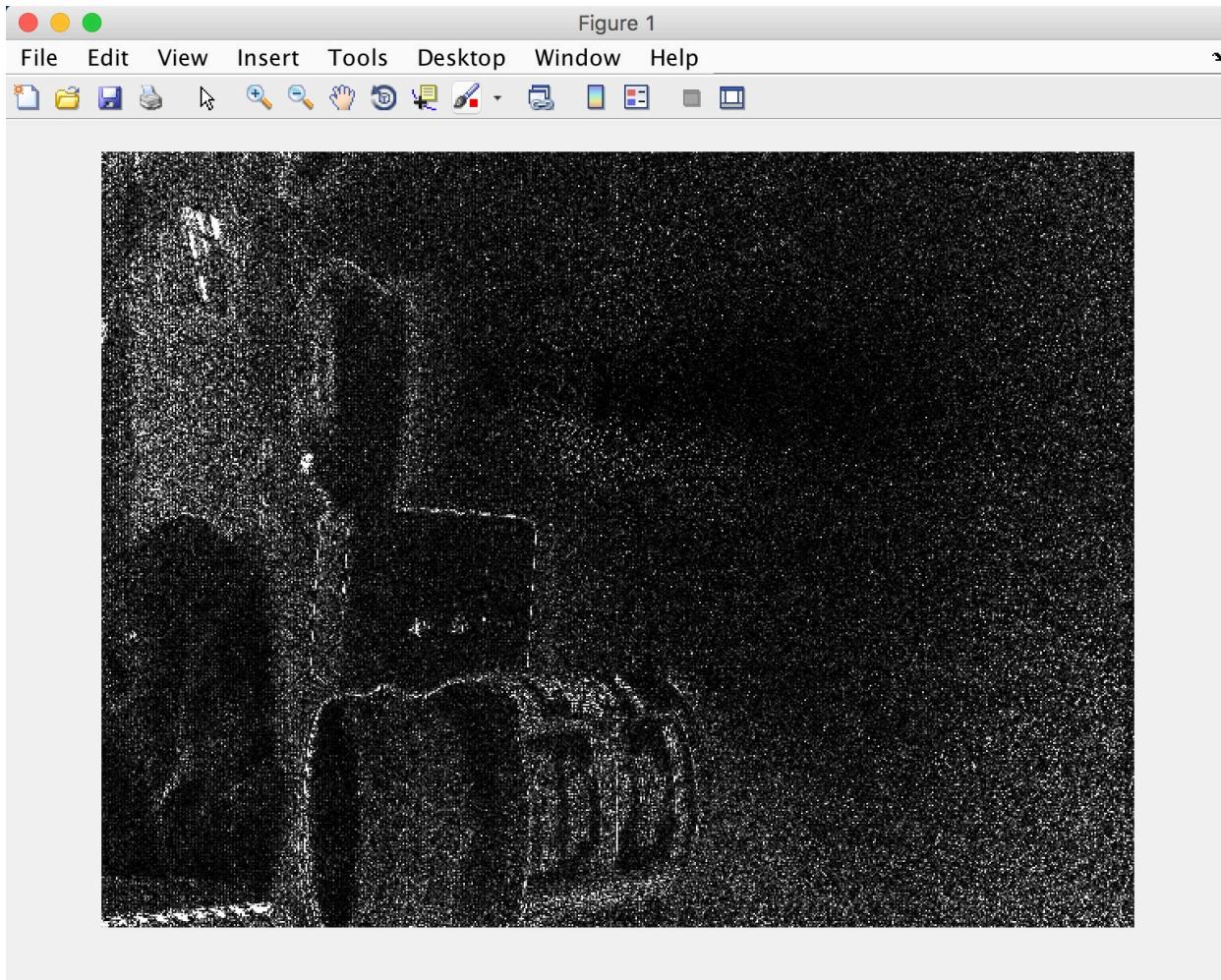


2. Calibrate your focal stack

The matlab code is in the zip file.

3. Compute a depth map from the focal stack

A depth index map computed from the focal stack:



4. Recover an all-focus image of the scene

All-focus image:

