2018033_CV_HW14: Q1 Done

Code: **prewitt.py**

- The **kernel** for the filter:
  - `kernel = np.array([[-1,-1,-1],[0,0,0],[1,1,1]])`
  - `kernel_x = kernel`
  - `kernel_y = kernel.T`
- **Ex**: map for horizontal edges generated by convolving over kernel_x
- **Ey**: map for horizontal edges generated by convolving over kernel_y
- **E:** combined map generated by `E = np.sqrt(Ex**2 + Ey**2)`
- Ex, Ey, and E all were normalized by dividing with the respective max value.

How to run?: *python <code-file-path> <image-path>*
(e.g. **python prewitt.py dog.png**).

Output:

- The top left image is the input.
- The bottom left image is the combined map
- The top-right image is Ex (horizontal edge map)
- The bottom-right image is Ey (vertical edge map)