Problem Set 1-file2

5) original seals

![Seals on the beach](image1)

![Seals on the beach](image2)

![System resized](image3)
Left is imresize from MatLab, it's weird because the system resized seems to be better in this case (sharper).

The original dimension is 500x375, and resized dimension is 375x250.

Seams was removed sequentially from X to Y (alternating)

Left is resize using seam. As you can see the sky, sea above the levy, sands between the seals, were all target for removal. This is again because we used the energy function base on derivative, or changes in pixel color (or more vaguely, the pixel activities).
Matlab IMResize

Matlab Seams, the resize seems sharper, but you can identify clear distortion (specifically the trees at the right hand of the picture is ... literally gone). The shadows vs light seems to be picked up as "activities" and hence was not removed. Really in this situation we should cut away the land / river equally at same rate. Original was 500x375, resized to 375x250.
Grocery

Grocery is interesting one, mainly because none of the radical method seems to work very well.
Matlab imresize

This is a good example of terrible resize. Basically the aisle is taken as "lease activity" and removed. This is a case where condensing by cutting away seams, is just bad idea. Original was 500x375, resized to 375x250.
Original picture seems to indicate good resizing.
Matlab imresize

This one is actually an awesome example of "GOOD" background resizing. But terrible for the person. If weighted function for the minimum density graph is implemented, this would be awesome example of resizing. Original is 600x450, resized to 400x250.
Here we see clearly needs for weight function to prevent human from being distorted. Resized to 336x200.

Matlab imresize
Original AION wallpaper.
This is a very good result in my own opinion. Other than the staff being "bent" everything else seems to be in place. Dimension was 500x375 changed to 375x250.

-- ALL IMAGE TAKEN FROM GOOGLE IMAGE--