Lab 2 - Matlab

- Short HDR theory
- Explanation of HDR steps
- ► HDR & Matlab

HDR



http://blog.LindsayAdlerPhotography.com/hdr-plugins-a-life-saver

HDR



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HDR & Matlab

- makehdr Assembles frames of varying exposure levels into a single high dynamic range image.
- ▶ tonemap Renders high dynamic range image for viewing.

Matlab's HDR and Tonemap parameters

- makehdr , 'ExposureValue'
- tonemap, 'AdjustLightness' Clipping to light and dark:
 [0.3 1] vs [0.01 0.7]
- tonemap , 'AdjustSaturation' Forced to full intensity of a particular color vs equalizing the colors to grayscale
- tonemap, 'NumberOfTiles' Allowing more freedom to handle different areas separately

Other useful Matlab commands

- imread('filename')
- imwrite(im_var, 'filename')
- montage(im_var_arry) Display multiple image frames as rectangular montage
- ▶ subimage(im_var) Display multiple images in single figure