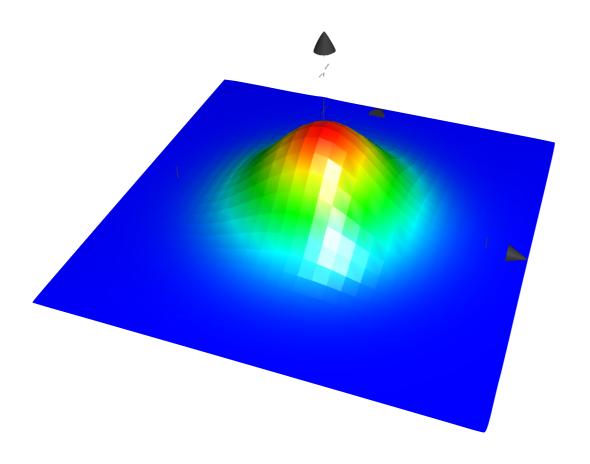


Gaussian Filter

The Gaussian filter



A Gaussian kernel gives less weight to pixels further from the center of the window

$$h(u,v) = \frac{1}{2\pi\sigma^2} e^{-\frac{(u^2+v^2)}{\sigma^2}}$$

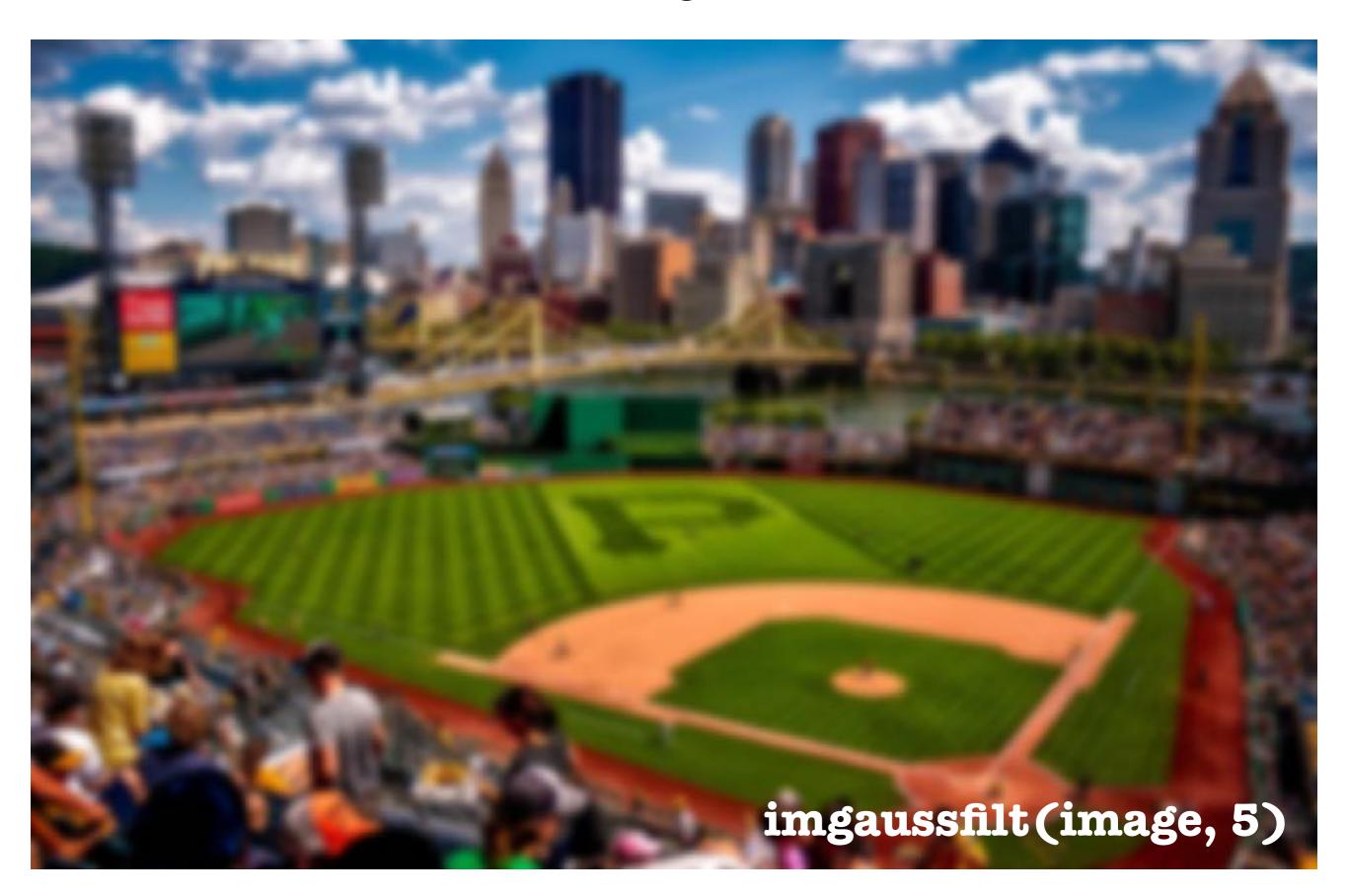
<u>1</u> 16	1	2	1
	2	4	2
	1	2	1

This 3 x 3 kernel is an approximation of a 2D Gaussian function

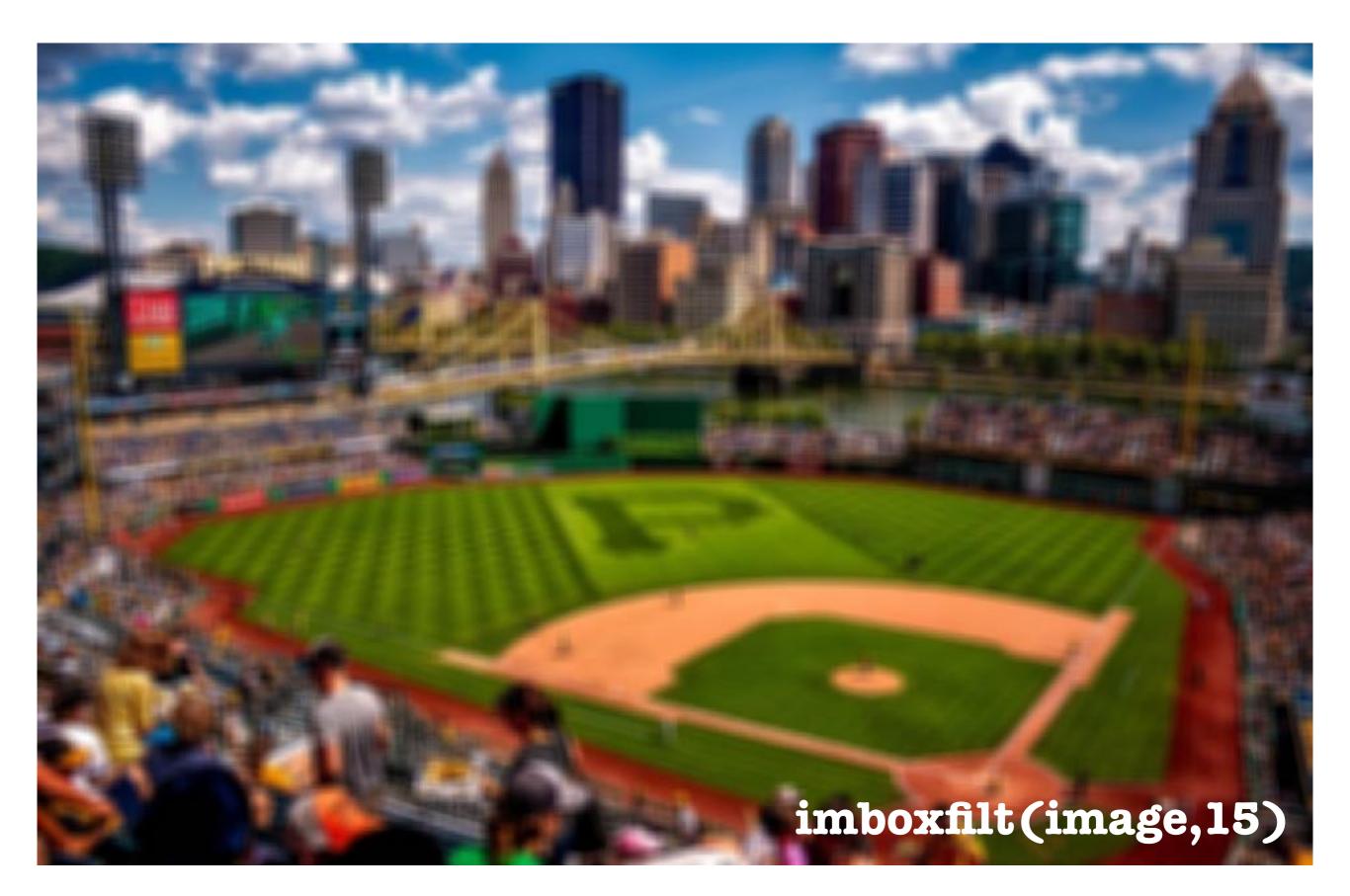
Gaussian Filtering versus Box Filter



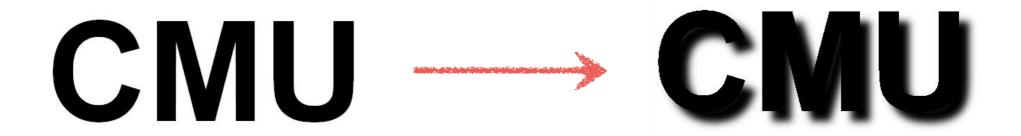
Gaussian Filtering versus Box Filter



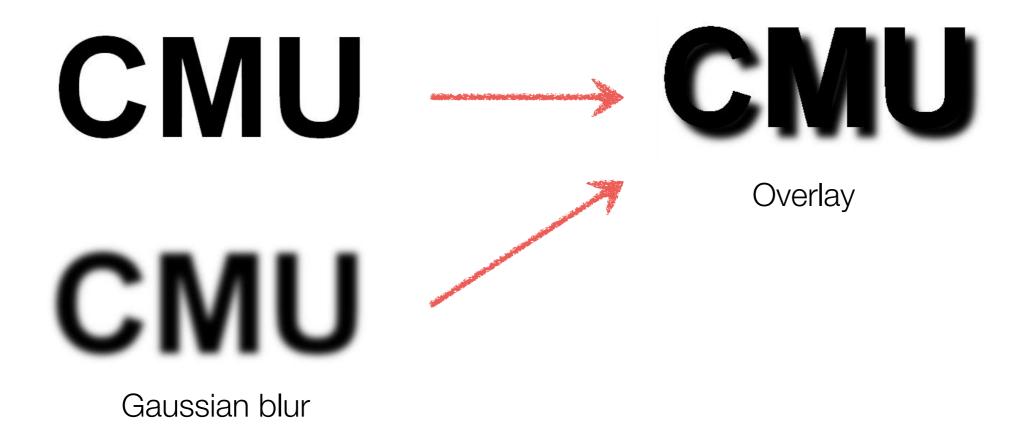
Gaussian Filtering versus Box Filter



How would you create a shadow effect?



How would you create a shadow effect?



How would you create a soft focus effect?







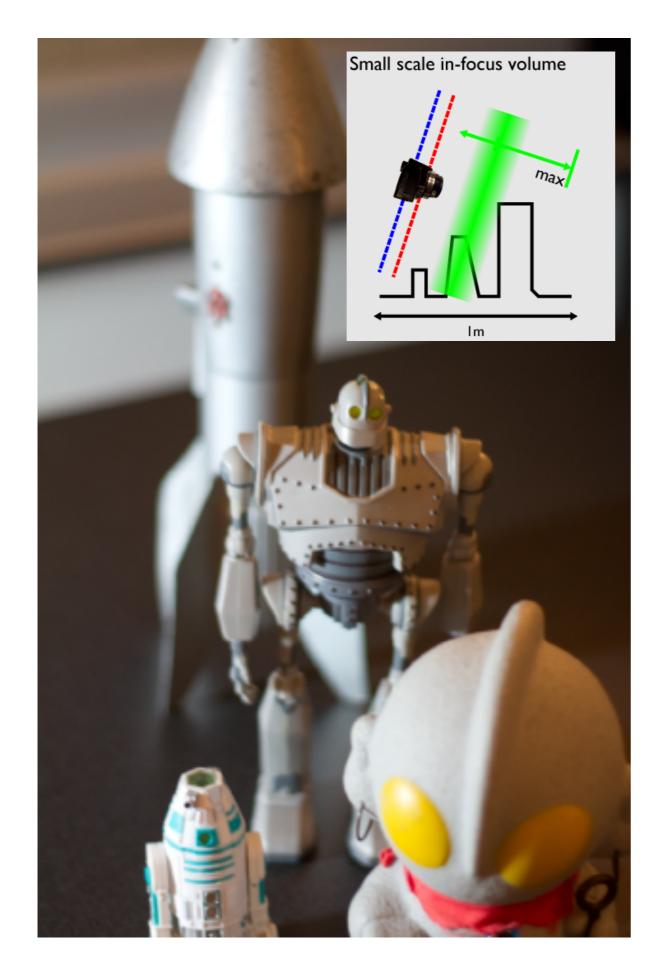
How would you create a soft focus effect?

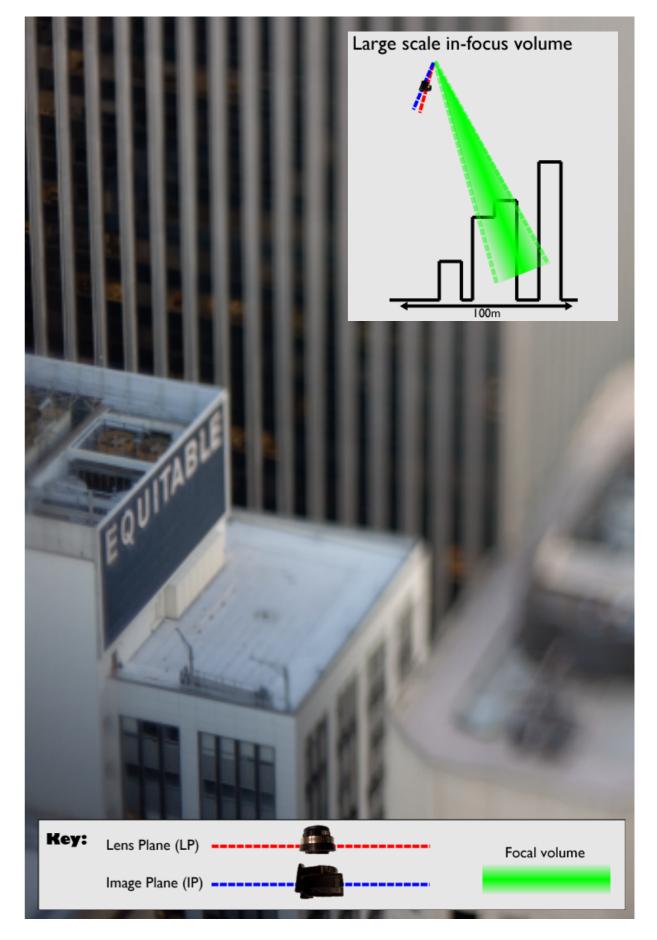


Tilt Shift Effect



http://www.flickr.com/photos/ender079/2704450659/





How would you create a (super low-budget) tilt-shift effect?



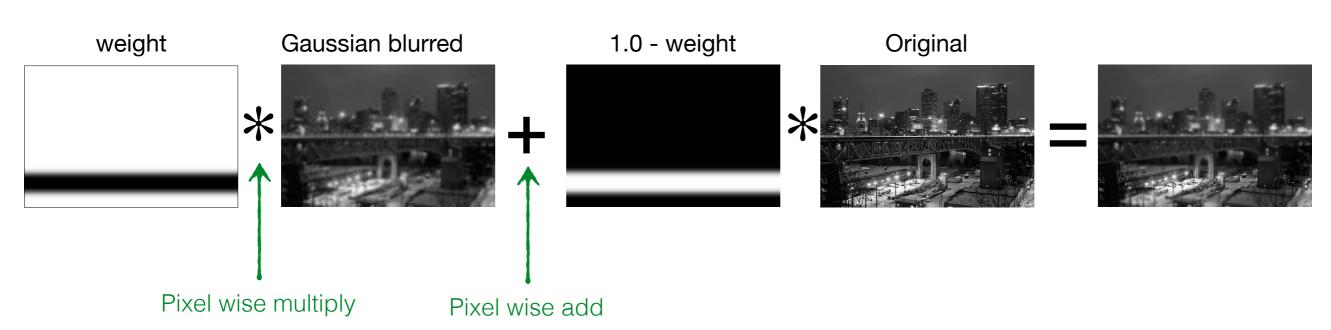


http://farm8.staticflickr.com/7061/6867631897_f8377709b9_z.jpg

How would you create a (super low-budget) tilt-shift effect?









Tell me everything wrong with this wannabe tilt-shift image