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• I place each solution in a separate page.

#### Part 1 (Image Filtering):

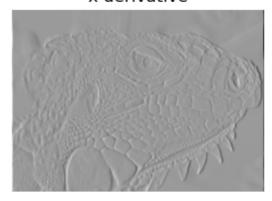
## I used Sobel Filter

#### Partial x

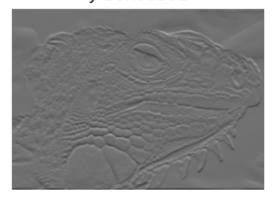
#### Partial y

# Part 2 (Edge):

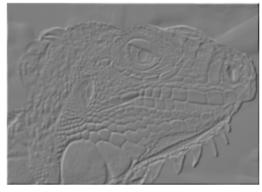
x derivative



y derivative



Gradient Magnitude



## Part 3 (Corner):

### Harris Corner Response





#### Threshold



## NMS



## Part 4 (Image Subsampling):



















