# HOMEWORK REPORT

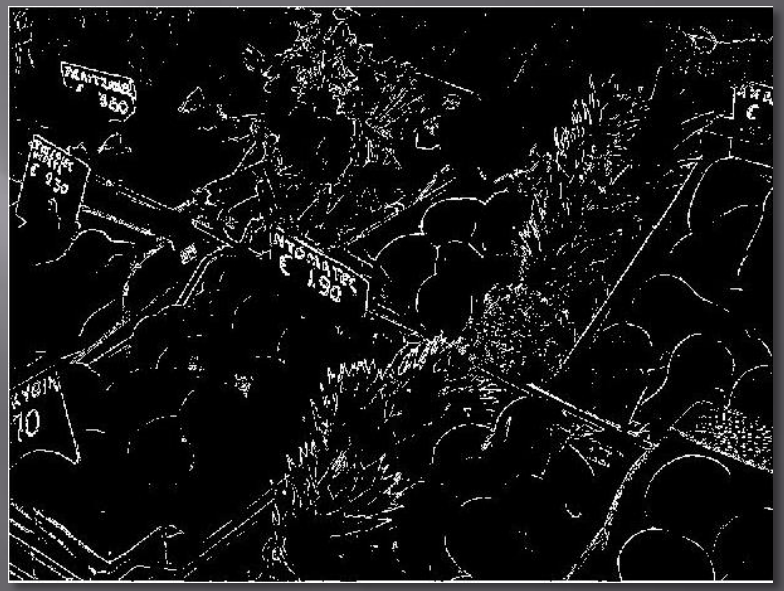
Patrick Poirson

# Things I Have Learned

- Derivatives and Filters (Gaussian)
- Correlation and Convolution
- Edge Detectors (Roberts, Sobel, Prewitt, Canny)
- SIFT
- Adaboost
- SVM
- Matlab

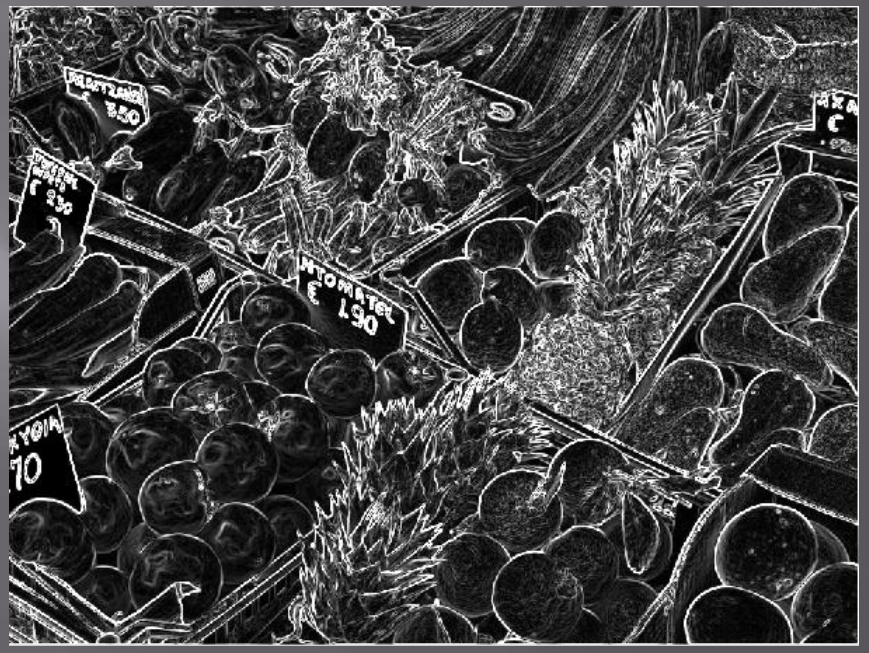
# Edge Detectors: Roberts



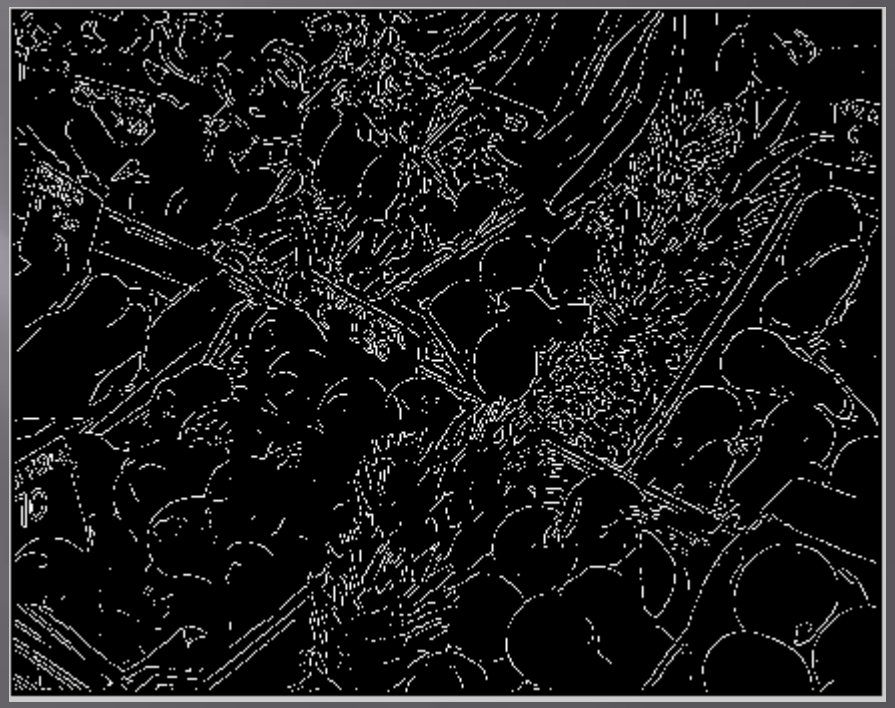
# Edge Detectors: Sobel



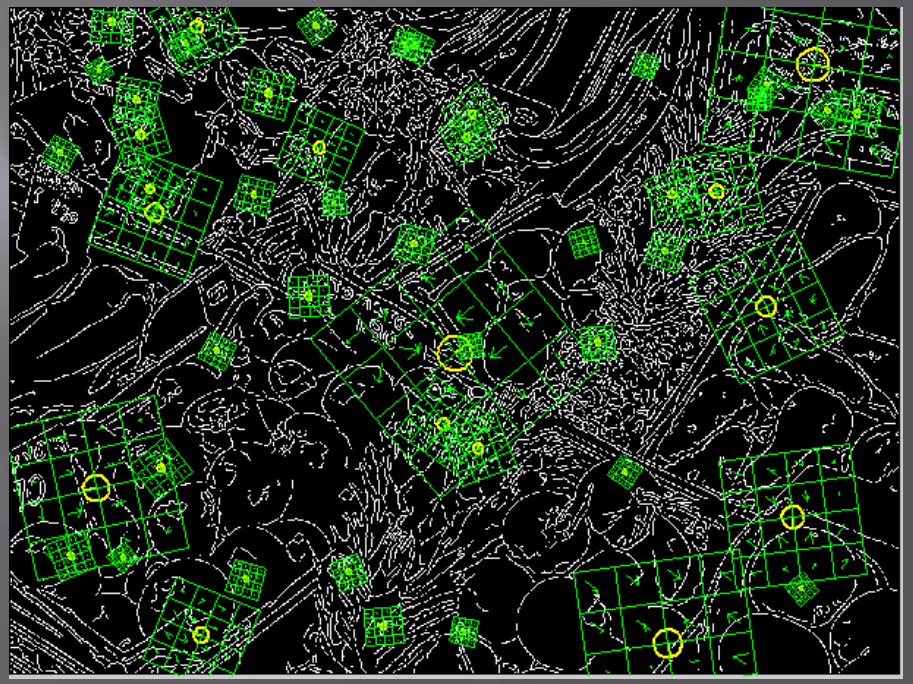
# Edge Detectors: Canny



# SIFT



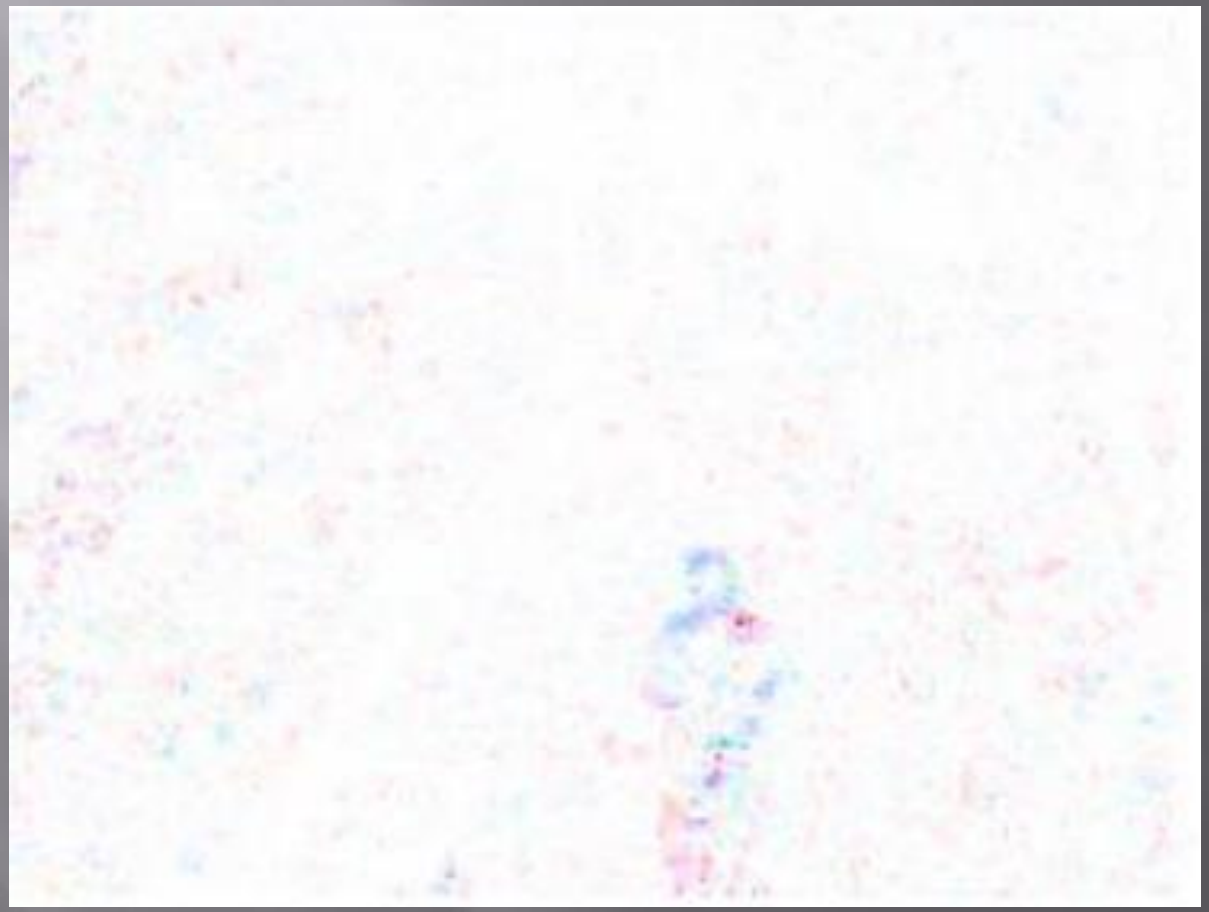



# Optical Flow

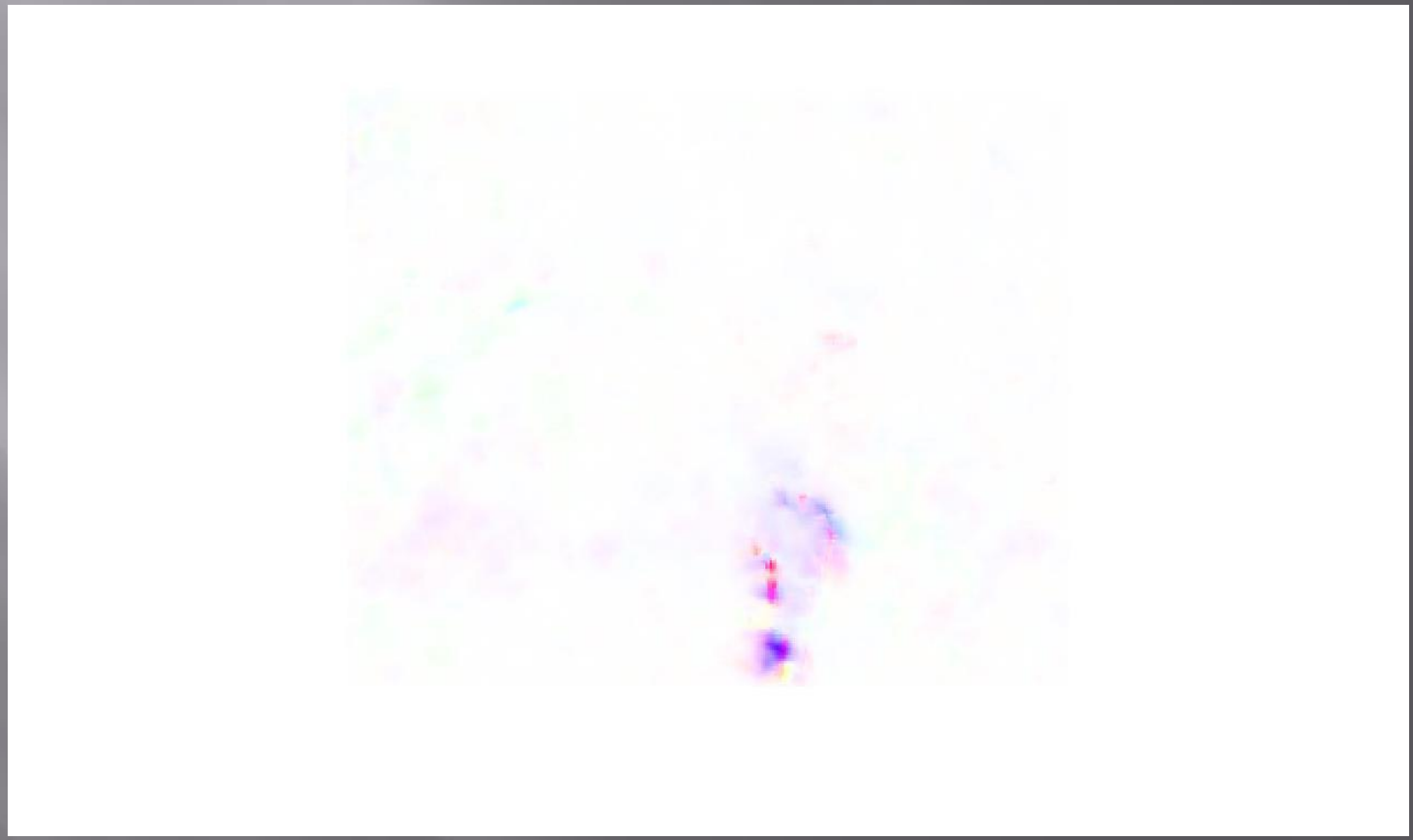




# Without Pyramids



# With Pyramids



# Project

- Deep Learning Tags and Images
  - Found tutorial on Deep Learning
  - Began reading a paper
    - "Stacked Denoising Autoecnoders: Learning Useful Representation in a Deep Network with a Local Denoising Criterion"