



STAT 215A Fall 2017

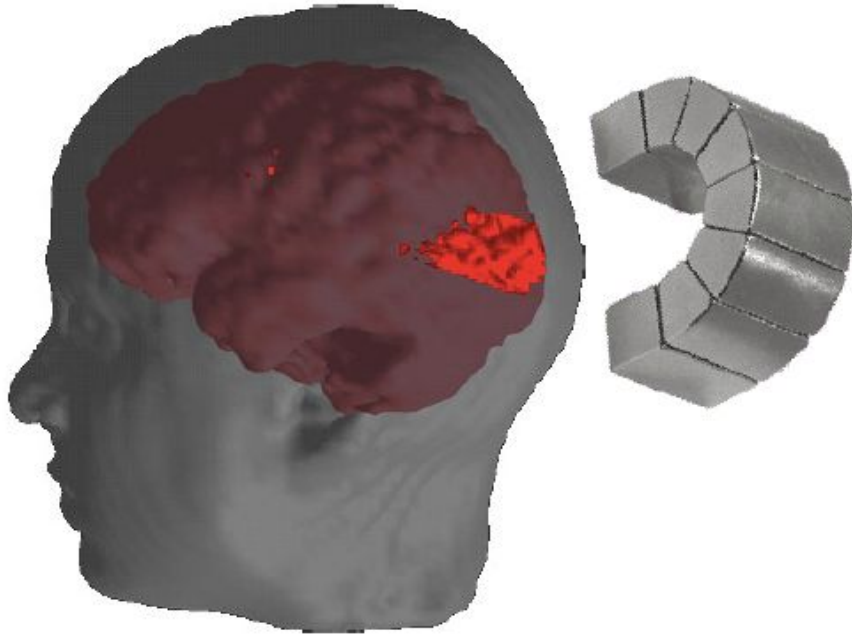
Week 13

Rebecca Barter
11/17/2017



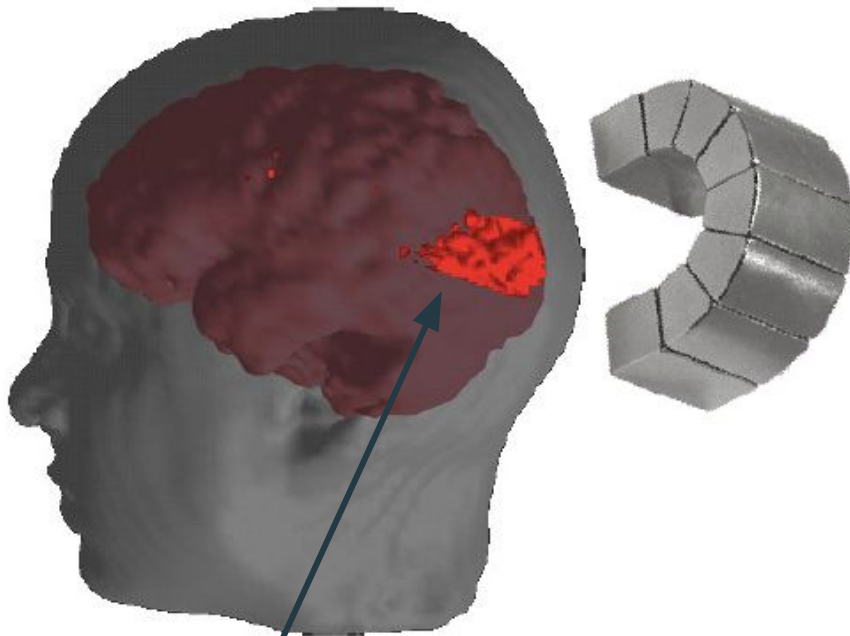
Final project in a nutshell:

Predict the brain's response to images

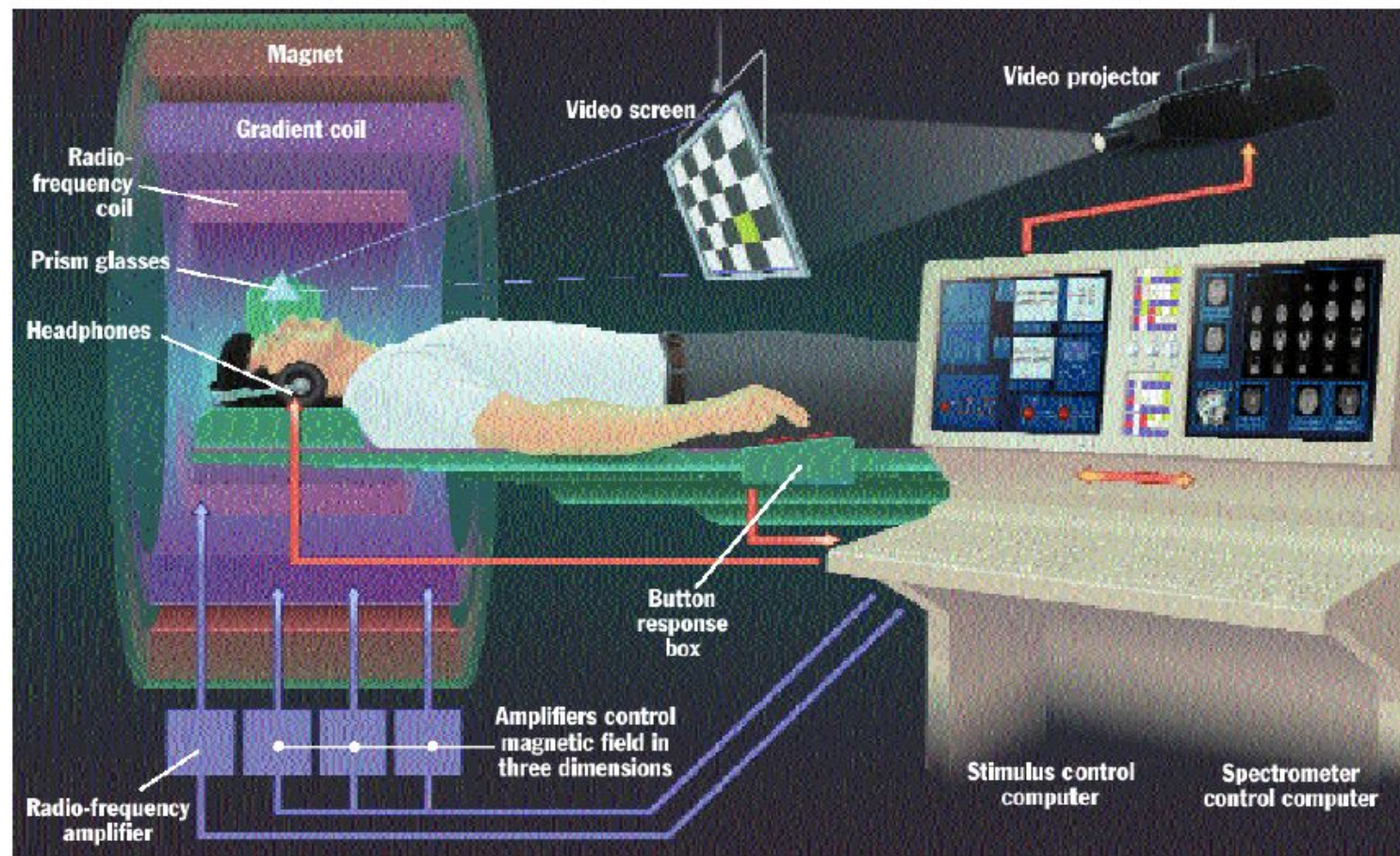


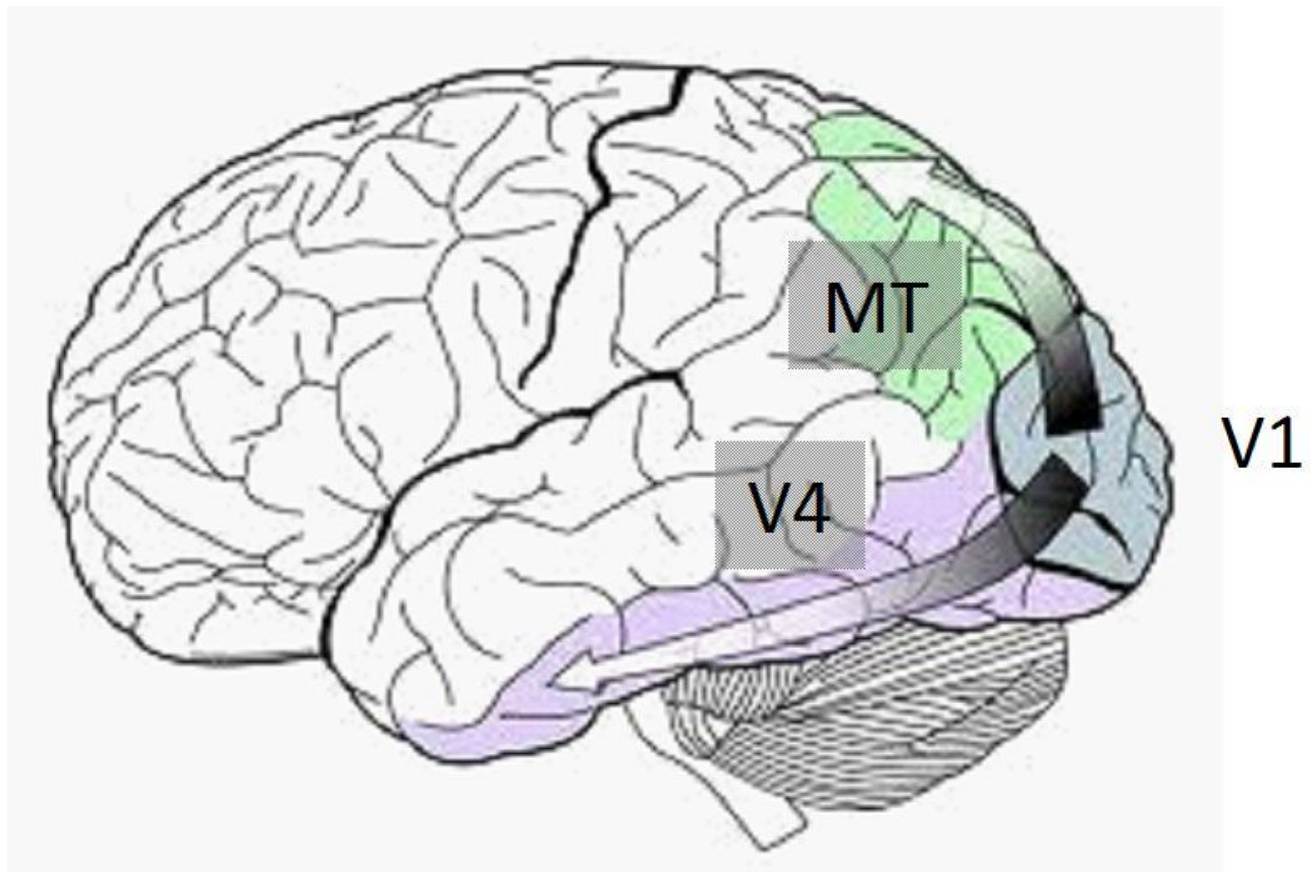


X = stimulus

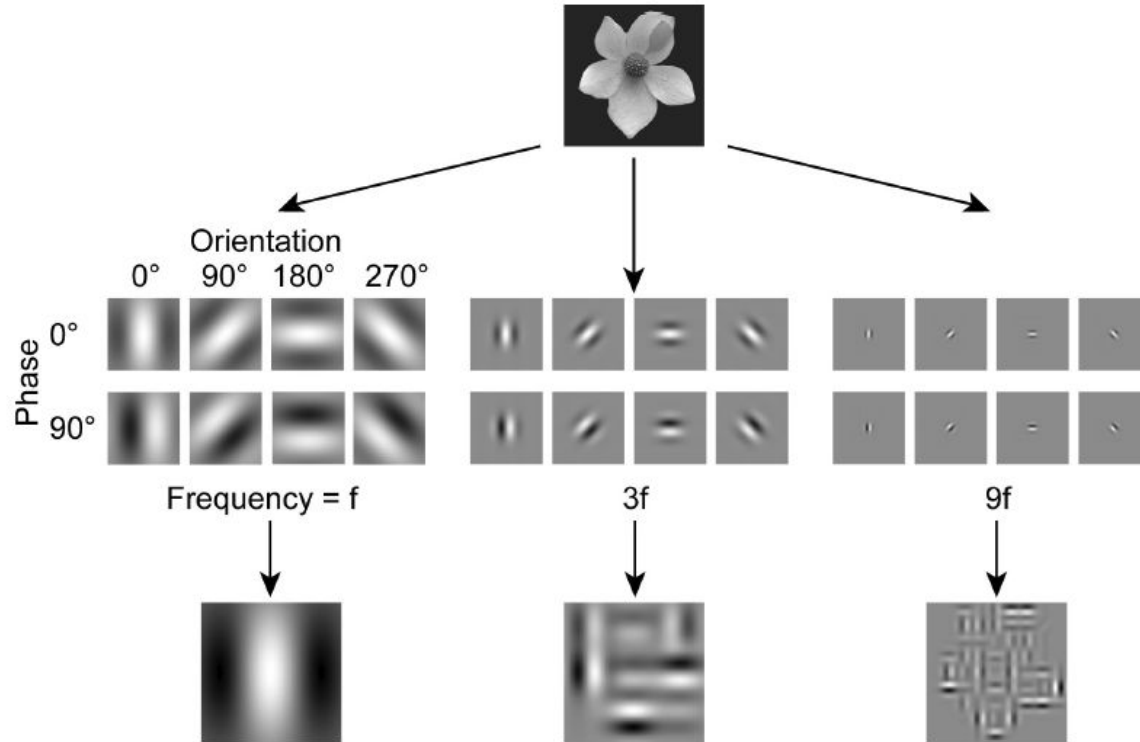


Y = response (20 locations in V1 region)





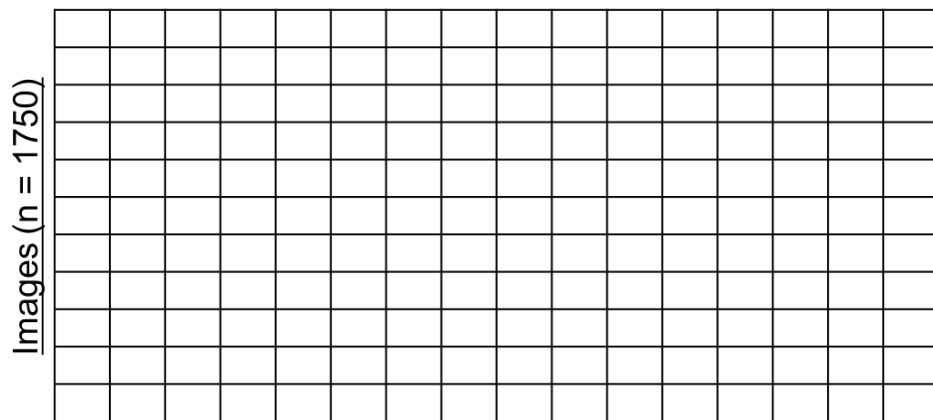
The Gabor transformation



The data

Gabor Feature Matrix

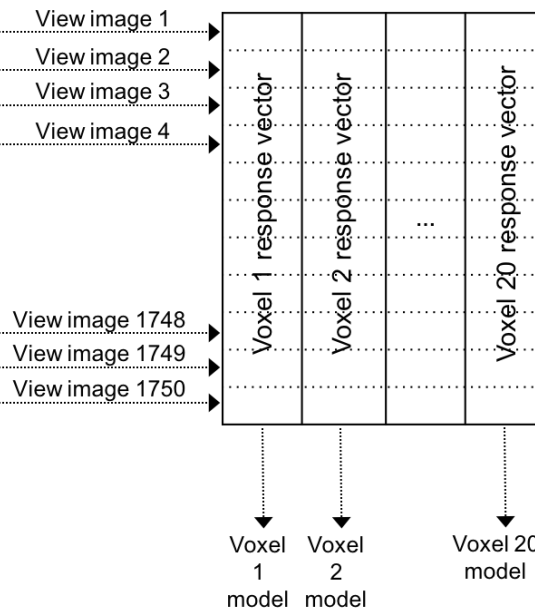
1750 (images) x 10921 (Gabor features)



Gabor features (p = 10921)

Voxel Response Matrix

1750 (responses) x 20 (voxels)



The data

See `fmri_example.R` for an example