HW 4 due today
No class Apr 9, 13, 16

Quiz 2 Apr 20

Emailed to you at 10am that day
Post on blackboard by 10:20am (or 10:25am?)
Open book/open notes
Do NOT collaborate – no e-mail/chat/etc to eachother

Content same as HW4
Format pretty much same as Quiz 1

Office Hours this week:
   Mon 12-1

Today:
Matlab:
  fMRI–general linear model correlation

Perception
  audition
  touch
  vision

Example code:
size(neuroData2)
32 32 16 94
% lft-rt, frt-bk, dwn-up, time
%show: 5th slice from btm, t=20
slice=squeeze(neuroData2(:,:,5,20);
%show: max activity over time
maxInTime=max(neuroData2,[],4);
% activity over time in eyes:
voxTimeCrs=squeeze(neuroData2(10,3,5,:));
% activity over time in occip lobe:
voxTimeCrs2=squeeze(neuroData2(15,30,5,:));

% timesObjs2, timesNonsense2 –
% 0 if no obj/noise, 1 if obj/noise
figure;plot(timeObjs2);
% change axes to see 1’s and 0’s
axis([0 100 -0.5 1.5])
% Define vector with 1 whenever any
% picture is shown (obj or noise)
timeAnyStim=timesObjs2+timesNonsense2;

% see relation between pic-view and
% brain/eye response
corr(voxTimeCrs,timeAnyStim’)
% high neg corr
corr(voxTimeCrs2,timeAnyStim’)
% lower pos corr

% corr(vec1,vec2) – both vecs
% should be nx1 vectors
% timeAnyStim - 1x94
% timeAnyStim' - 94x1 (transpose)