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# design.m

```
function design(D,T,name)
%Plots a design matrix against a time vector with a name.

%Initialize vectors and variables
s = size(D,2);
slots = 1:(s-1)*2;
rslots = find(mod(slots,2)==0);
lslots = find(mod(slots,2)~=0);

%Plot the regression variables/signals.
for i=1:s-1
    subplot(s-1,2,lslots(i));
    hold on;
    title(name + " regressor " + i);
    plot(T,D(:,i+1),'Marker','o','MarkerSize',4);
    xlabel("Time(sec)");
    ylabel("Amplitude");
    hold off;
end
%Plot the design matrix.
subplot(s-1,2,rslots);
hold on;
title(name + " Design");
imagesc(D(:,2:end));
xlabel("Stimuli");
ylabel("Stimuli Activity");
ylim([0,size(D,1)]);
colormap gray;
hold off;
end
```

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