

```
%function [] = mk_batch_arms_error_plt()
%
% Written by:
% --
% John L. Weatherwax          2007-12-07
%
% email: wax@alum.mit.edu
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% Please send comments and especially bug reports to the
% above email address.
%
%-----

% do this experiment 100 times
%N_MC_REPITIONS=5;
N_MC_REPITIONS=100;

% for each experiment generate up to this many episodes:
N_EPISODES=100;

%alpha=0.01;
alpha=0.001;

allRuns = zeros(N_MC_REPITIONS,N_EPISODES,2);
for mci=1:N_MC_REPITIONS,
    [allRuns(mci,:,1),allRuns(mci,:,2)]=eg_rw_batch_learn(N_EPISODES,alpha);
    clc;
end

allRuns2 = squeeze(mean(allRuns,1))

figure;

%
% TD/MC plots:
h = plot( allRuns2(:,1), 'b-x' ); ah = [h];
hold on;
h = plot( allRuns2(:,2), 'g-o' ); ah = [ah; h];

xlabel('walks/trials'); ylabel('average RMS error (batch algo.)');
legend( ah, { 'MC', 'TD' } ); grid on;

fn='batch_constant_mc_vs_td.eps'; saveas( gcf, fn, 'eps2' );
```