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```

run('data_2017_06_15.m');

[~, locs] = findpeaks(data(:, 2), 'minpeakheight', 3);

d = diff(data(locs, 1));
mnT = mean(d);
fprintf('cycle frequency = %1.3fHz, refresh rate = %1.3fHz\n', ...
        1/mnT, 2/mnT);
fprintf('%i peaks in %1.3fs --> cycle frequency = %1.3fHz\n', ...
        length(locs), data(end, 1), length(locs) / data(end, 1));

figure(1); clf; hold on;
plot(data(:, 1), data(:, 2), 'b-', 'linewidth', 2);
xlim(data([1, end], 1));
xlabel('time (s)');
ylabel('voltage');
set(gcf, 'Color', 'w');
set(gca, 'FontSize', 14, 'FontWeight', 'bold');

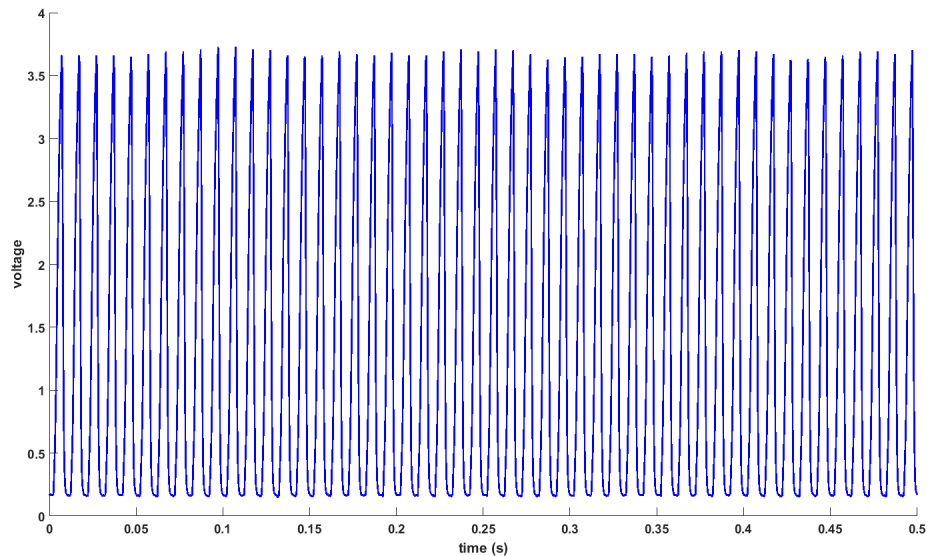
figure(2); clf; hold on;
plot(data(:, 1), data(:, 2), 'b-', 'linewidth', 2);
xlim(data(locs([1, 3])));
xlabel('time (s)');
set(gcf, 'Color', 'w');
set(gca, 'FontSize', 14, 'FontWeight', 'bold');
ylabel('voltage');

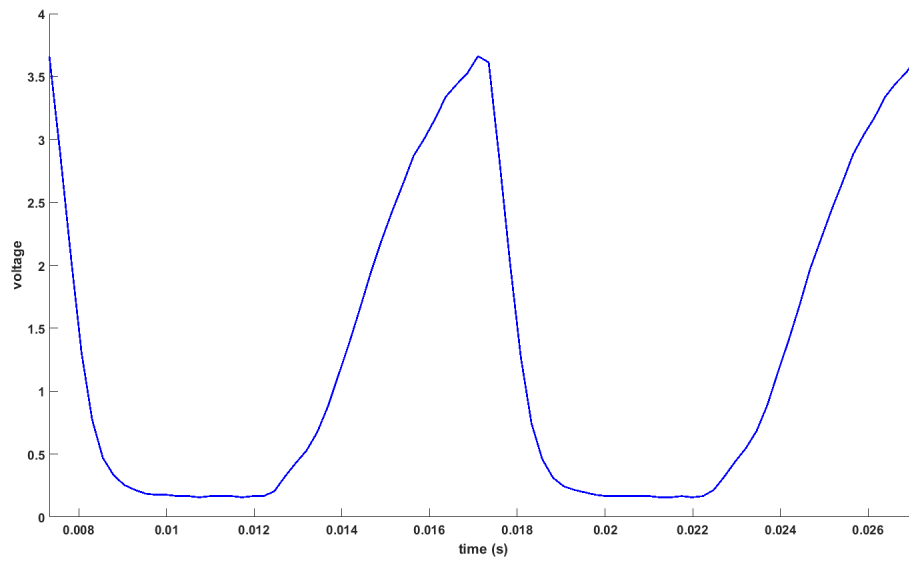
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```

cycle frequency = 100.023Hz, refresh rate = 200.046Hz
50 peaks in 0.500s --> cycle frequency = 99.970Hz

```





*Published with MATLAB® R2015b*