
```
run('data_2017_08_08.m');

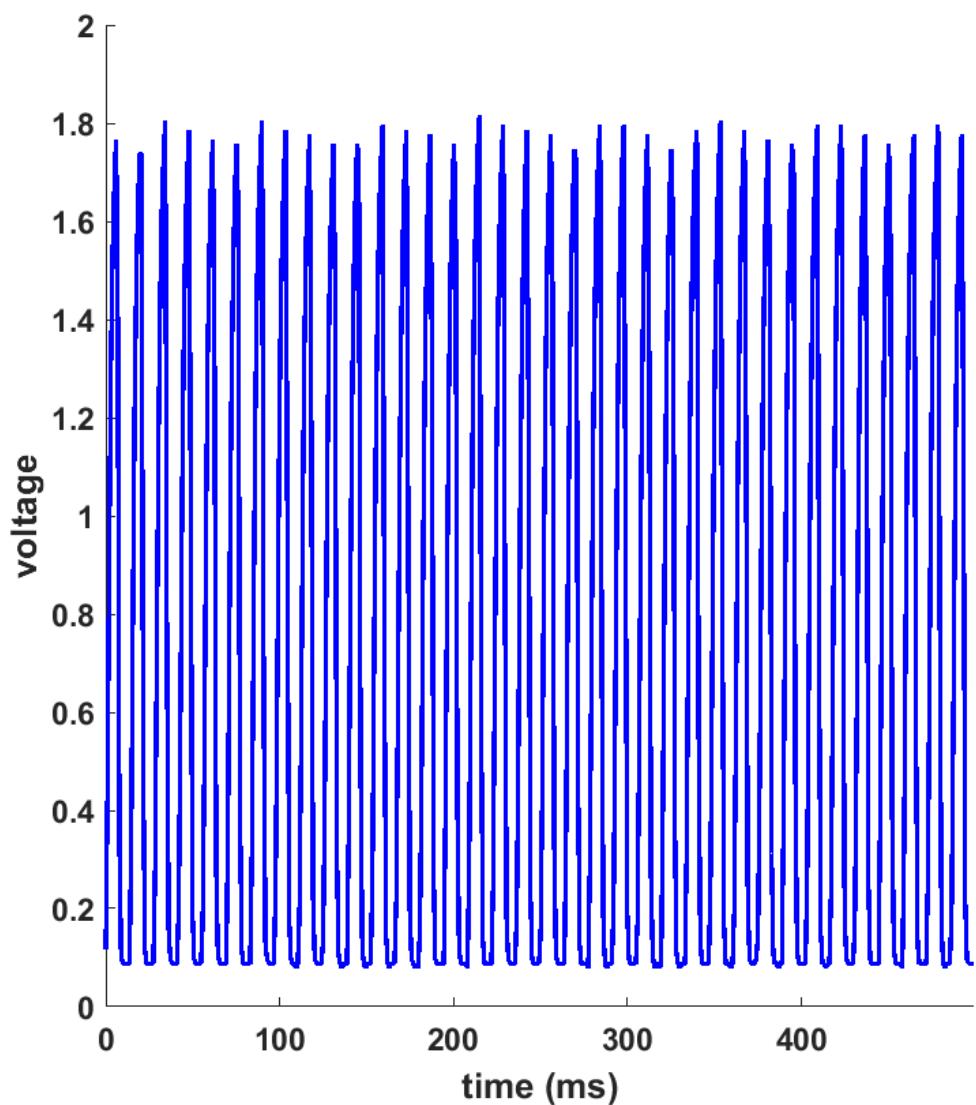
[~, locs] = findpeaks(data(:, 2), 'minpeakheight', 1);

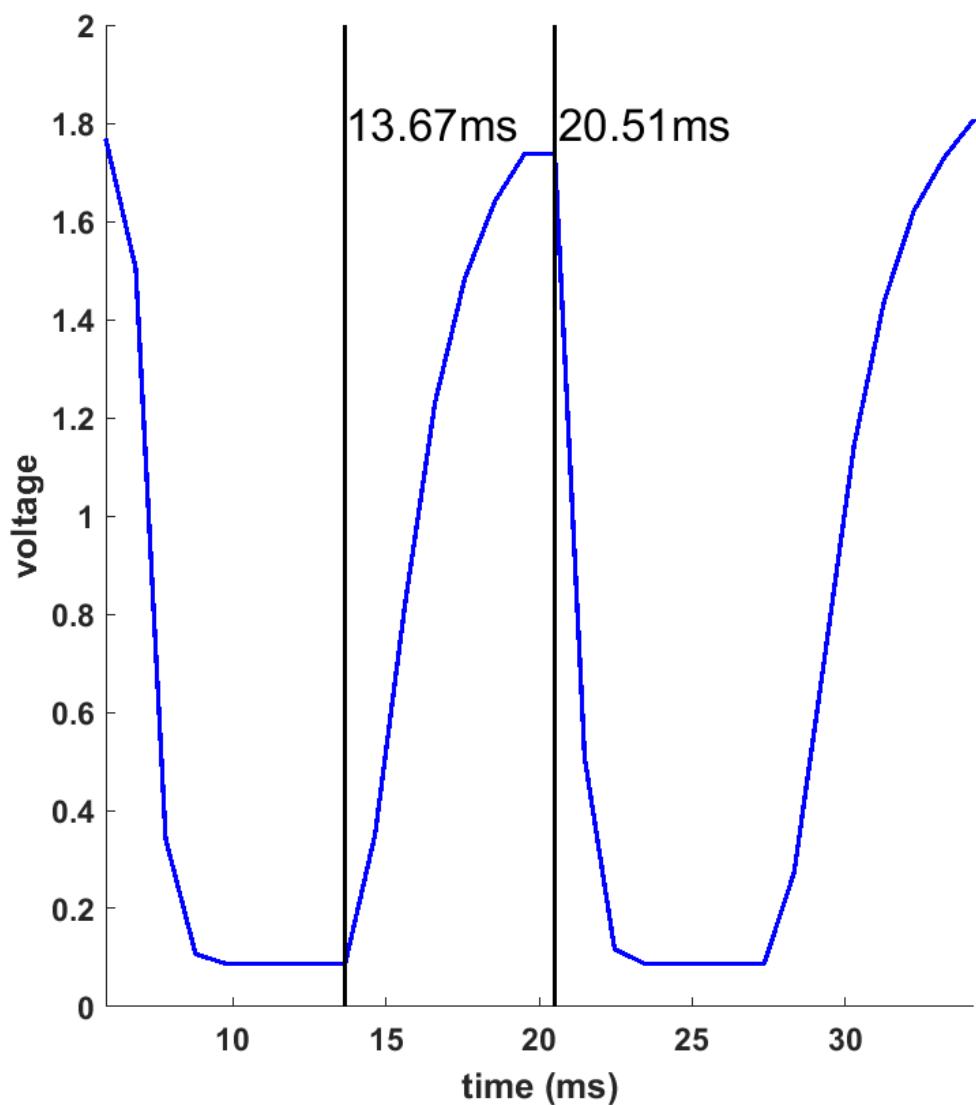
d = diff(data(locs, 1));
mnT = mean(d);
fprintf('cycle frequency = %1.3fHz, refresh rate = %1.3fHz\n', ...
    1/mnT, 2/mnT);
fprintf('%i peaks in %1.3fs --> cycle frequency = %1.3fHz\n',...
    length(locs), data(end, 1), length(locs) / data(end, 1));

figure(1); clf; hold on;
plot(data(:, 1)*1000, data(:, 2), 'b-', 'LineWidth', 2);
xlim(1000*data([1, end], 1));
xlabel('time (ms)');
ylabel('voltage');
set(gcf, 'Color', 'w');
set(gca, 'FontSize', 14, 'FontWeight', 'bold');

figure(2); clf; hold on;
plot(data(:, 1)*1000, data(:, 2), 'b-', 'LineWidth', 2);
xlim(1000*data(locs([1, 3])));
xlabel('time (ms)');
set(gcf, 'Color', 'w');
set(gca, 'FontSize', 14, 'FontWeight', 'bold');
ylabel('voltage');
vertLineThrough([13.67, 20.51], 'k');
text(13.7, 1.8, '13.67ms', 'FontSize', 20);
text(20.6, 1.8, '20.51ms', 'FontSize', 20);

cycle frequency = 71.960Hz, refresh rate = 143.920Hz
36 peaks in 0.499s --> cycle frequency = 72.133Hz
```





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