**Collapsible sections**

**Simulation**

~~Side menu indicator to which section on~~

~~Make simulation results unfold when click simulate~~

~~Add other drive cycles~~

~~Add numbers to pie chart~~

~~Add constant speed generator~~

~~Add static efficiencies~~

~~Add elevation~~

~~Clear chart~~

~~Reset drive cycle inputs on load and reset button~~

~~Need to increase performance when lots of numbers~~

~~Add kWh/km pie chart~~

~~Add range predictor~~

~~Automate plot tick marks~~

~~Fix next time step error~~

~~Fix falling pie chart error (add responsive tag?)~~

~~Fix 2~~~~nd~~ ~~run percentage energy error~~

~~Add summary of inputs screen~~

~~Add LUT for motor max torque from motor data~~

~~Add motor efficiency panel in sim output~~

~~Use vehicle drivetrain setup inputs correctly~~

Add regen

Note gearbox efficiency somewhere

~~View more sim variables in master plot, e.g. battery power draw, losses, drag power, motor power, inverter losses, battery SOC, regen power~~

Add ATX, B12 and Mustang default vehicles

Add warning if bad value put in

Add battery pack configuration screen (max outputs, mean outputs, thermal capacity etc.)

**Release to show people**

Add SOC change

Add battery current and voltage

Add battery thermal model

Add input warnings

Battery age in cycles at temperature?

Csv export

Drive cycle upload?

Report export

Need to zoom in on time plots

Change WLTP 3b to m/s

Examples of how to use

Each timestep: vehicle speed worked out from previous speed + previous acceleration APART from for second zero where the speed is set by the starting speed