

OBD Collection and Display

Tools to collect vehicle onboard diagnostic data
and graphically display the data

Collection

- OBD Collection Tools – GITHUB repository
<https://github.com/mbroihier/obd-collection-tools>
 - obd_logger.py – python3 module that opens a session with a ELM 327 OBD device and collects all mode 1 data available in the vehicle
 - Logger connects to the interface
 - Queries the vehicle to obtain a list of readings that are available
 - Cycles through the list and creates a “CSV” file of the readings

Collection (continued)

- `obd_log_to_json.py`
 - Converts `obd_logger.py` CSV files into json files
 - Converts `obd_logger.py` CSV files into JavaScript files that can be imported by the display server

Display

- OBD Display Tools - GITHUB repository
<https://github.com/mbroihier/obd-display-server>
- Node.js, express, Heroku based server that displays files produced by the obd_logger and obd_log_to_json tools
- Server displays JavaScript plot files produced by obd_log_to_json tool
- Server displays graphs of collected data
 - Lines can be removed/restored
 - Lines can be put on an alternate axis