CST:383 Intro to Data Science

DATA VISUALIZATION

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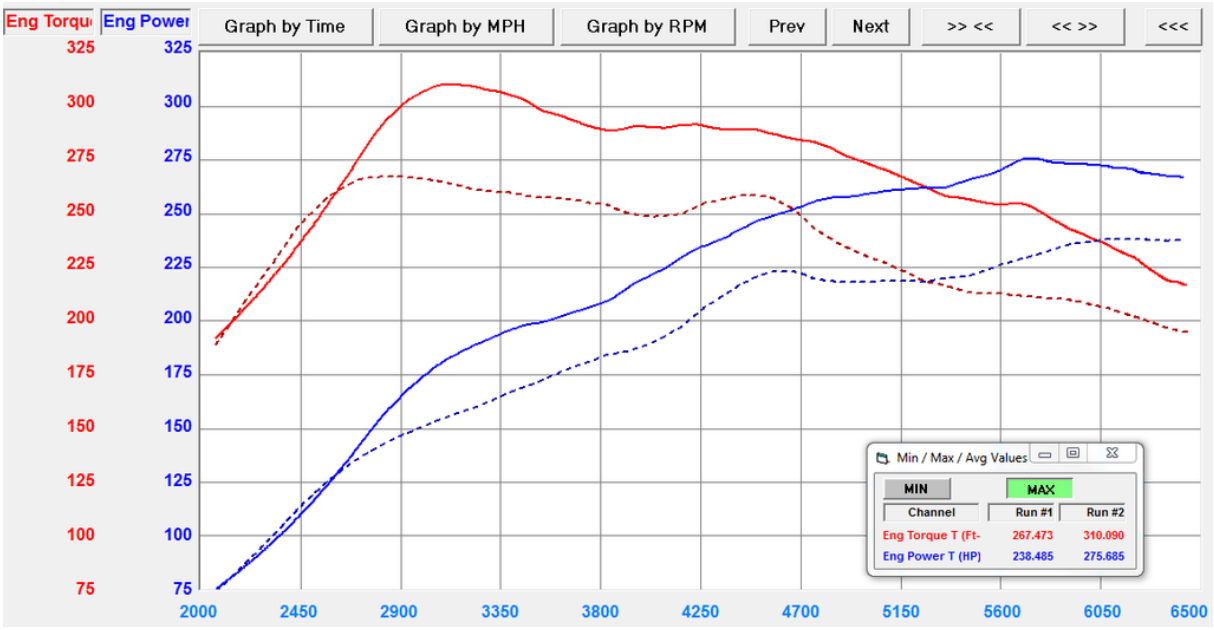
Graph representation of power / torque profile of a car engine

https://vfengineering.com/products/hex-rs6 (8/31/2019, 3.22 pm)

The graph below is used to showcase a car tuning company´s ability to increase an engine's raw performance through ecu (engine control unit) tuning.



Brief explanation

This graph shows the correlation between torque and horsepower at different rpm in a car engine. At low rpm's, torque is greater than horsepower. As rpm's get higher, torque fades and power increases. The dotted line represents the engine's performance before tuning.

What is this useful for?

These results can be used for optimizing the engine's performance to increase gas mileage and/or optimize its horsepower/torque settings in different driving scenarios, comfort, sport, race mode etc. This can be handled through e.g. changing the profile of the transmission or the ecu.

I find this visualization interesting because I enjoy looking at performance data and interpreting it for different objects such as lightbulbs or cars for example. After analyzing the data, I look for ways to optimize the performance, effectiveness and productiveness in different scenarios. In that way, this graph represents something I really enjoy doing research for.