

Data Science

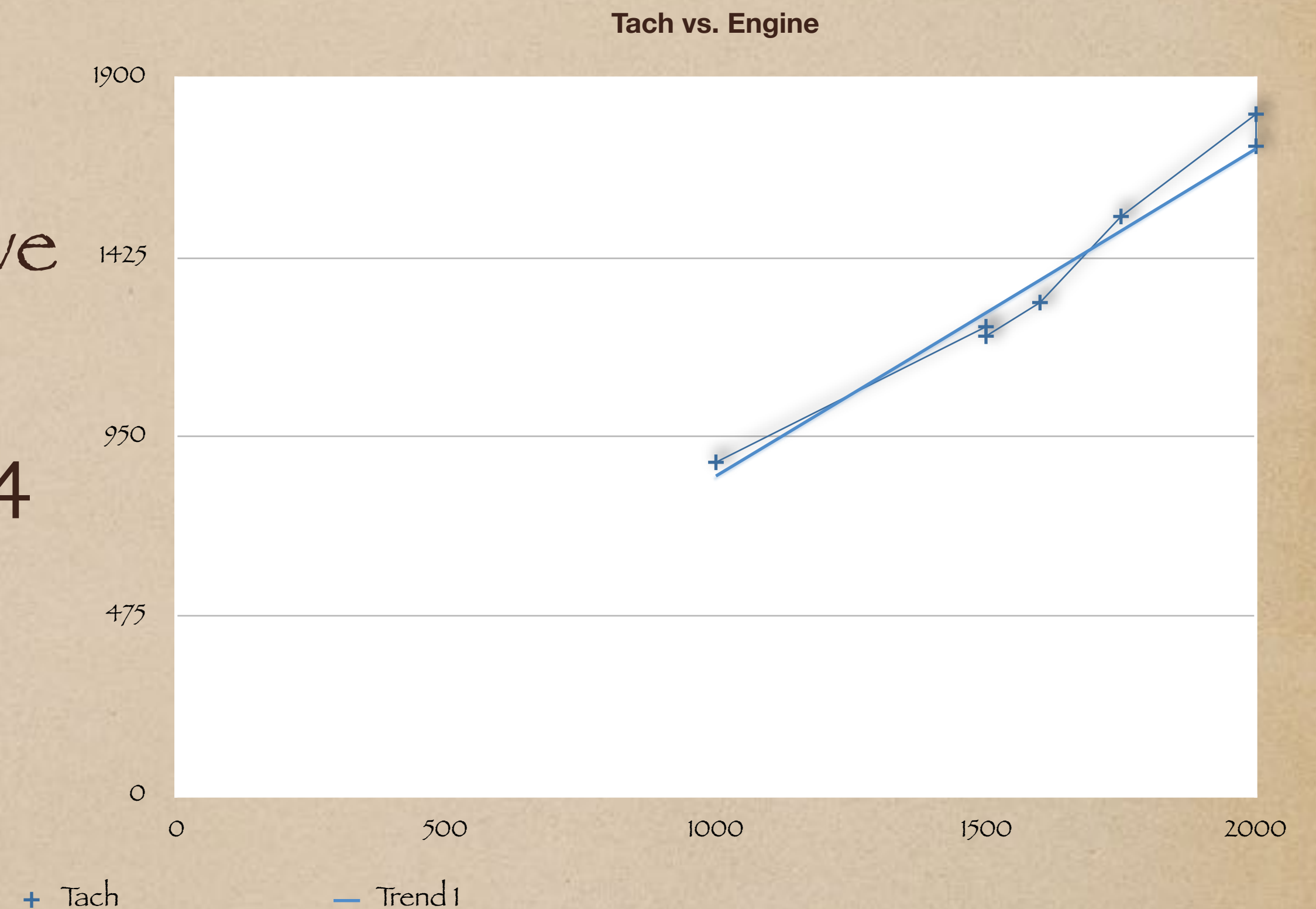
- ◆ Collected Some Data & Fit a Curve

```
def eng2(r):  
    return 0.7724*r**1.0134
```

- ◆ Sample Result:

```
>>> eng2(2100)  
1797.1291903589386
```

- ◆ When tach says 2100, engine measured spinning at about 1800.



Limits and Ranges

- ◆ Tach can't be read to closer than 100-200 RPM
 - ◆ The needle wiggles
- ◆ Engine has governors and only runs between 800 and 2500 RPM
- ◆ With the 1.4 factor, this range of tach readings:

```
>>> list(range(1100, 3500, 200))  
[1100, 1300, 1500, 1700, 1900, 2100, 2300, 2500,  
2700, 2900, 3100, 3300]
```