**Solution & Learning Points**

Well done! This was the most challenging data science project to date!

**Today you've learned**

* How to quickly spot relationships in a dataset using Seaborn's .pairplot().
* How to split the data into a training and testing dataset to better evaluate a model's performance.
* How to run a multivariable regression.
* How to evaluate that regression-based on the sign of its coefficients.
* How to analyse and look for patterns in a model's residuals.
* How to improve a regression model using (a log) data transformation.
* How to specify your own values for various features and use your model to make a prediction.

Chart, scatter chart

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You can download the completed code for today in this lesson.

A picture containing shape

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**Resources for this lecture**

**Multivariable Regression (Complete).zip**