**Learning Points & Summary**

Today was a big and difficult project. Congratulations on making it all the way through! You too deserve a prize 🏅!

In this lesson, we reviewed many concepts that we've covered previously, including:

* How to uncover and investigate NaN values.
* How to convert objects and string data types to numbers.
* Creating donut and bar charts with plotly.
* Create a rolling average to smooth out time-series data and show a trend.
* How to use .value\_counts(), .groupby(), .merge(), .sort\_values() and .agg().

In addition, we learned many new things too. We looked at how to:

* Create a Choropleth to display data on a map.
* Create bar charts showing different segments of the data with plotly.
* Create Sunburst charts with plotly.
* Use Seaborn's .lmplot() and show best-fit lines across multiple categories using the row, hue, and lowess parameters.
* Understand how a different picture emerges when looking at the same data in different ways (e.g., box plots vs a time series analysis).
* See the distribution of our data and visualise descriptive statistics with the help of a histogram in Seaborn.

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



Resources for this lecture