* Data
  + Data contains variables: datasold, postcode, price, propertyType, and bedrooms
  + Dataset is taken from [House Property Sales Time Series](https://www.kaggle.com/htagholdings/property-sales)
* Part 1
  + Examine the Data
  + Determine the variable of interest
  + Build a uniform univariate time series
  + Examine for stationarity (qualitative and quantitative)
  + Prepare correlation plots
* Part 2
  + Model fitting
  + Residual checks
  + Prediction and evaluation
* Part 3
  + Use SARIMA to model and forecast Price
  + Compare error metrics to ARIMA model from part 2
* Part 4
  + Chose a predictor variable (postal code, propertyType or bedrooms)
  + Think about how to align it with our uniform date sequence
  + Using ARIMAX (ex\_reg= ) to predict on the test set
  + Look at error metrics to determine if ARIMA, SARIMA or ARIMAX works the best
* Part 5
  + Fit a simple prophet model
  + Create a monthly seasonality
  + Use cross validation/grid search to find “best” parameters