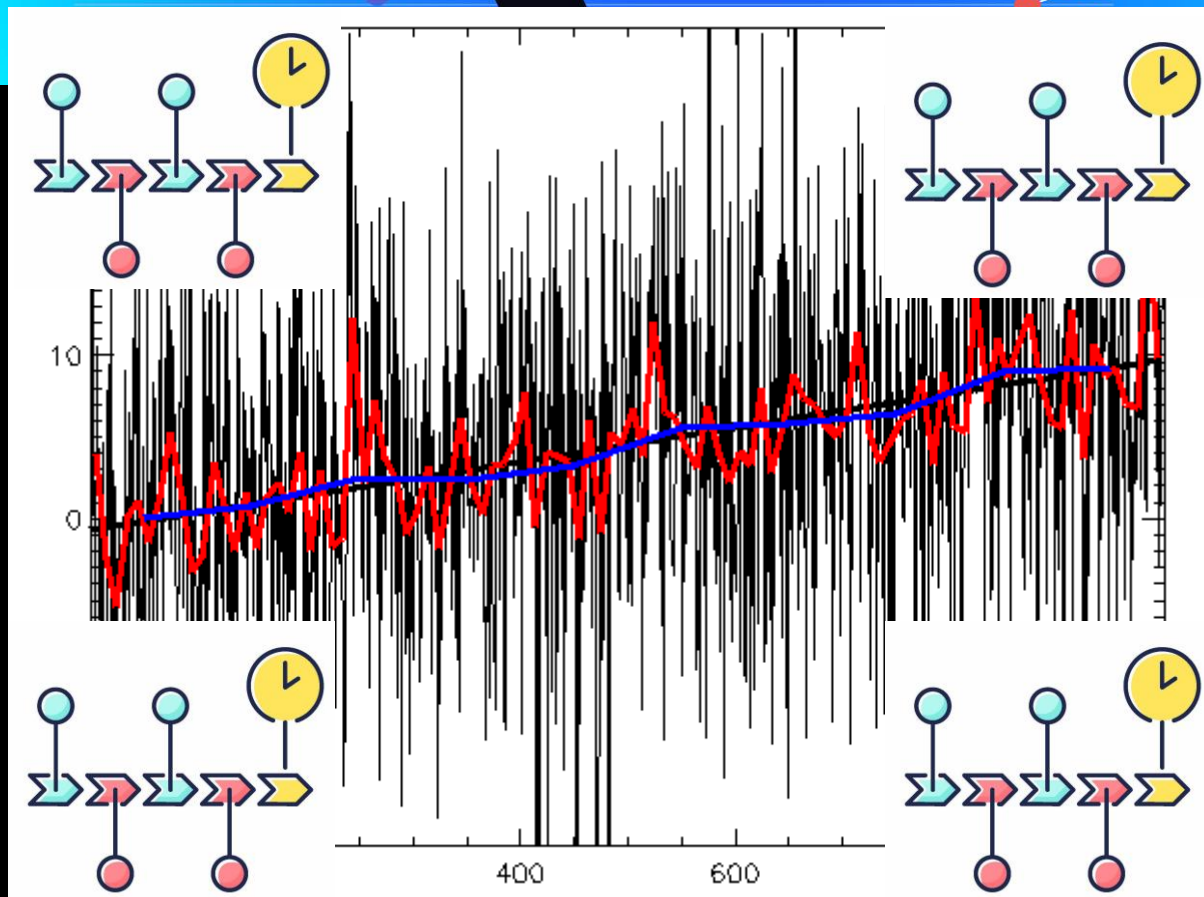


ARIMA

The title 'ARIMA' is rendered in large, bold, yellow 3D letters with black outlines. A magnifying glass with a black handle and frame is positioned over the 'R'. The background is a blue gradient with a network of nodes and lines in various colors (pink, purple, blue, red) and a white curved arrow.

Auto Regressive Integrated Moving Average

**time series analysis technique
used for forecasting future values
based on past observations**



Time Series

Sequence of data points or observations measured over time at regular intervals

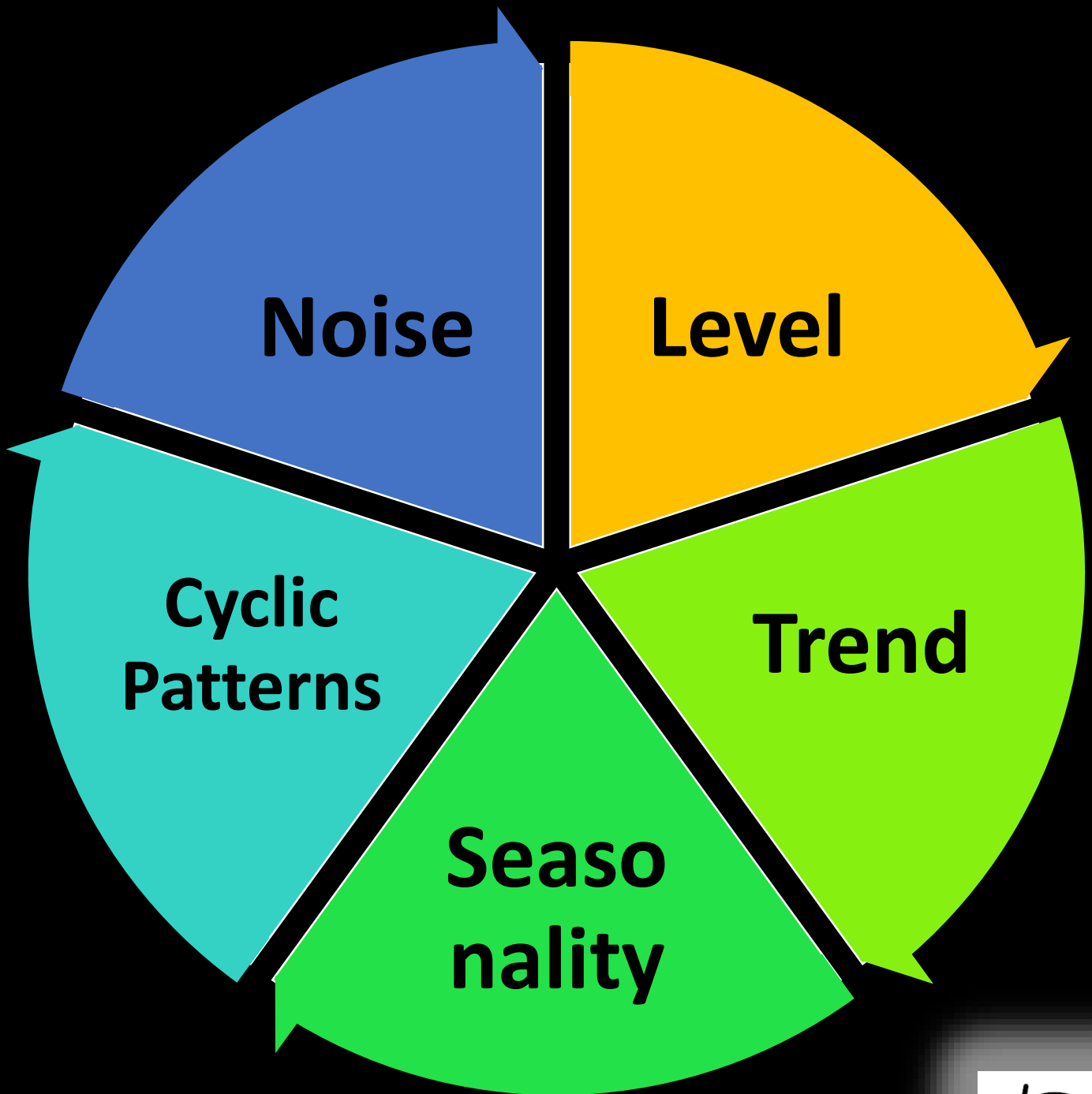
Order of observations is important

Examines patterns, trends, and fluctuations in the data

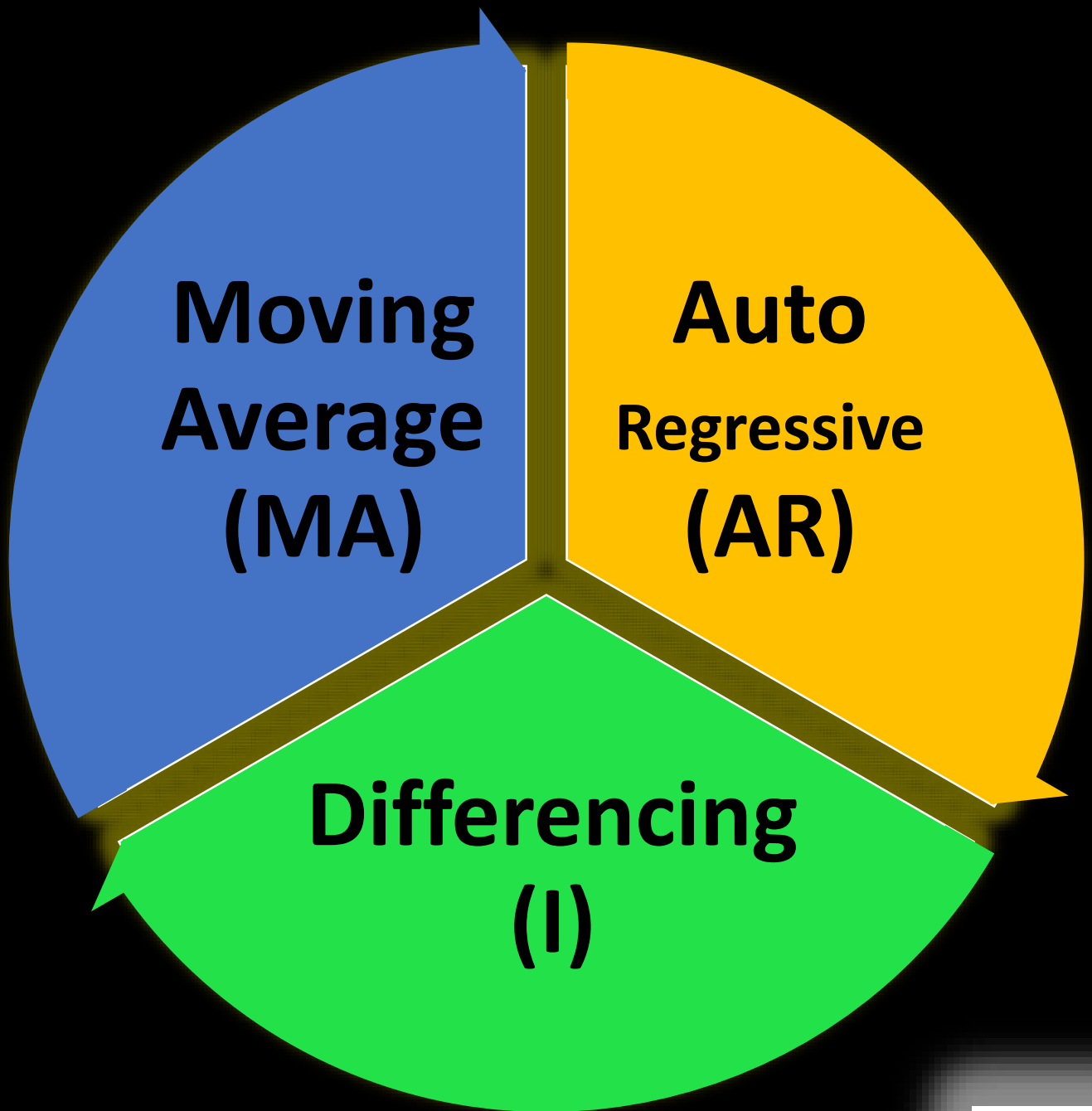
Key components include trend, seasonality, and randomness



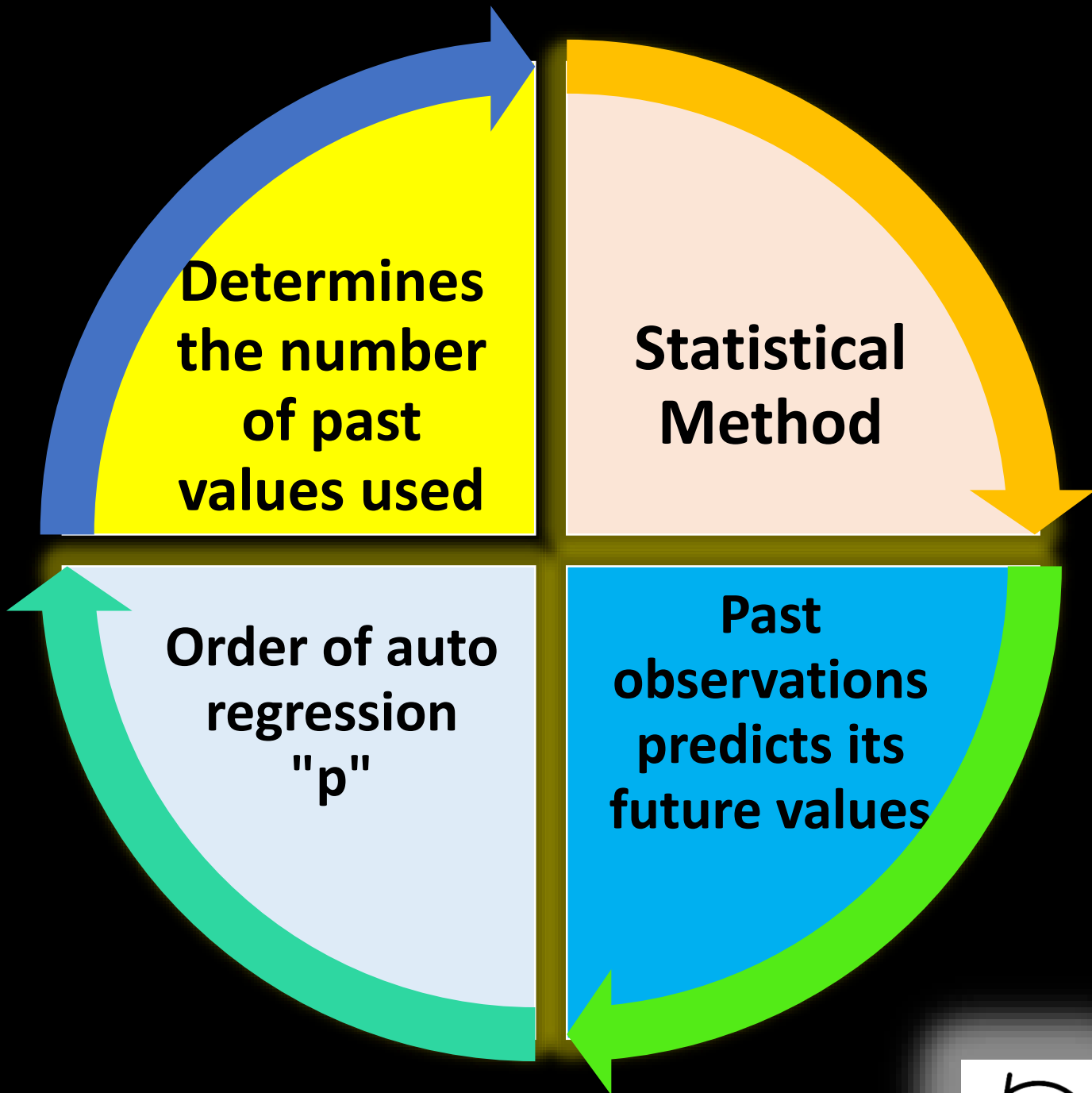
Time Series



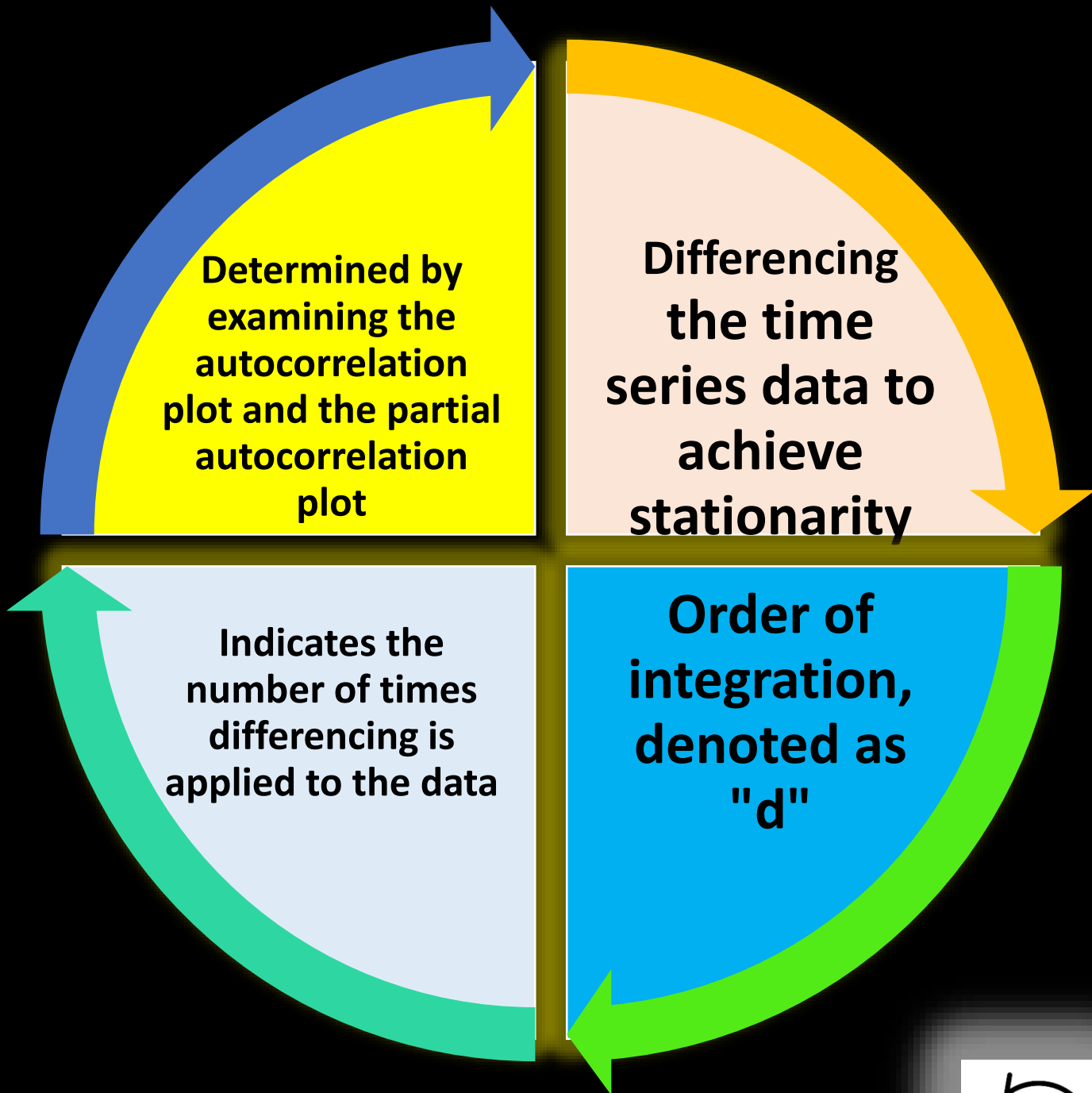
ARIMA



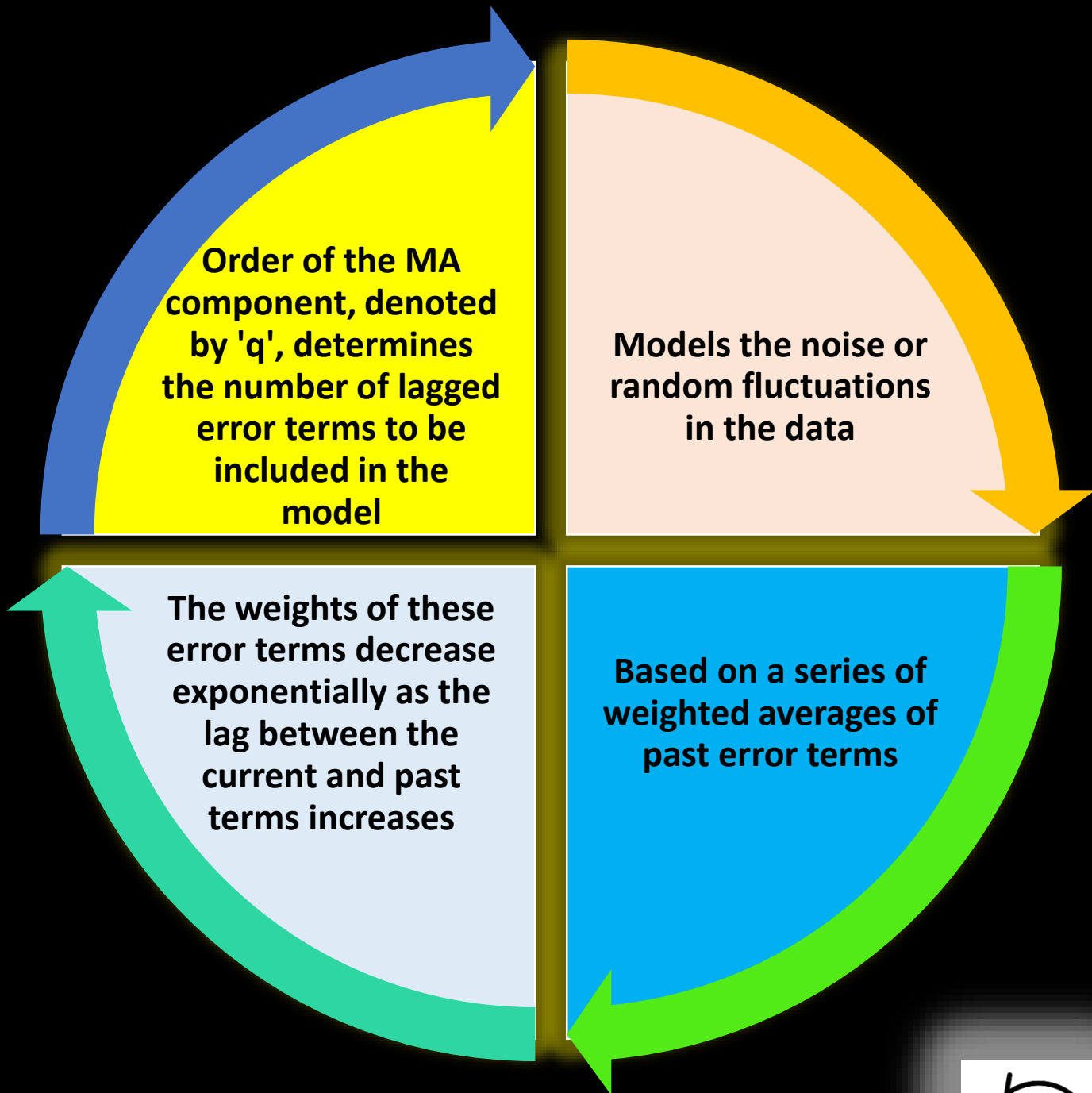
Auto Regressive



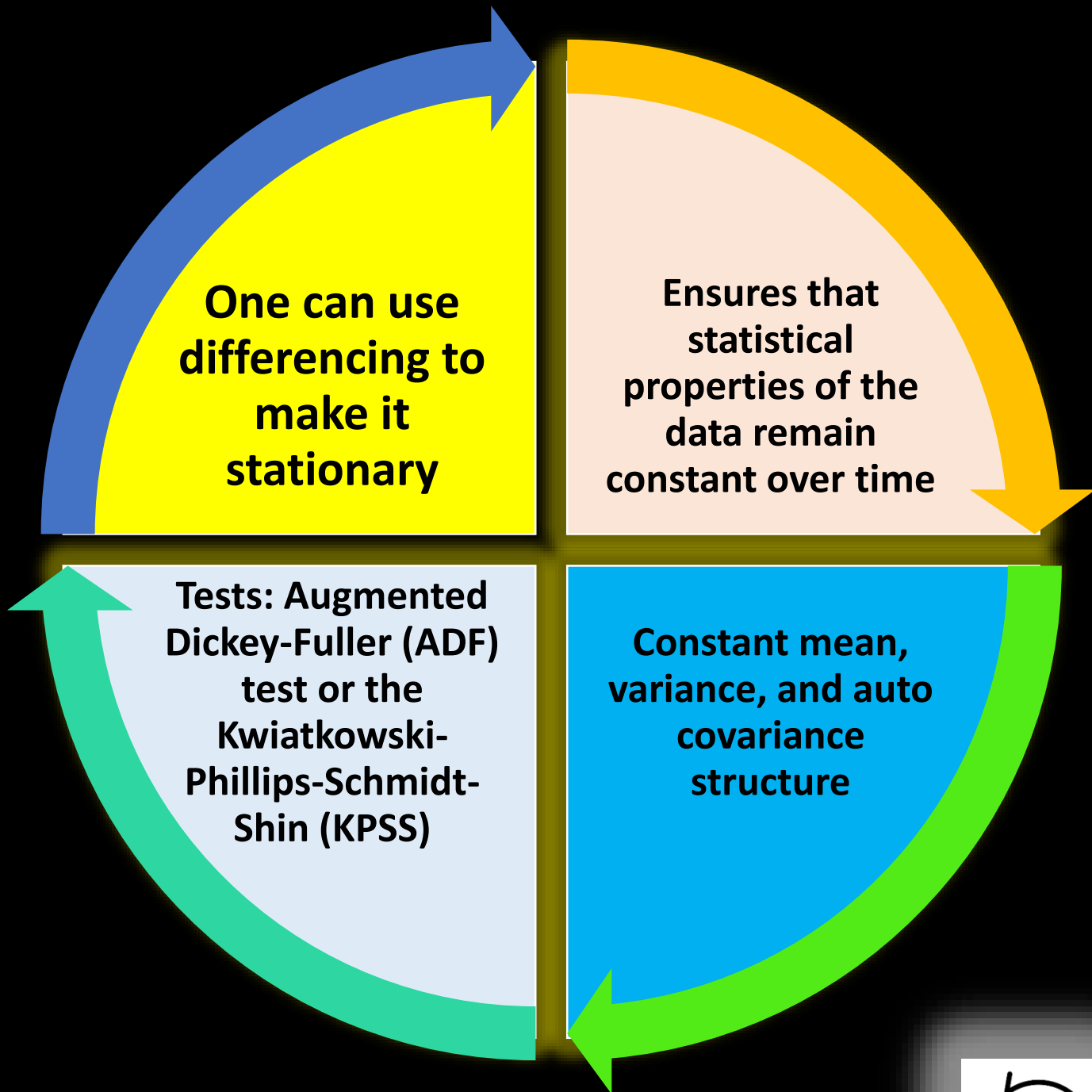
Integration



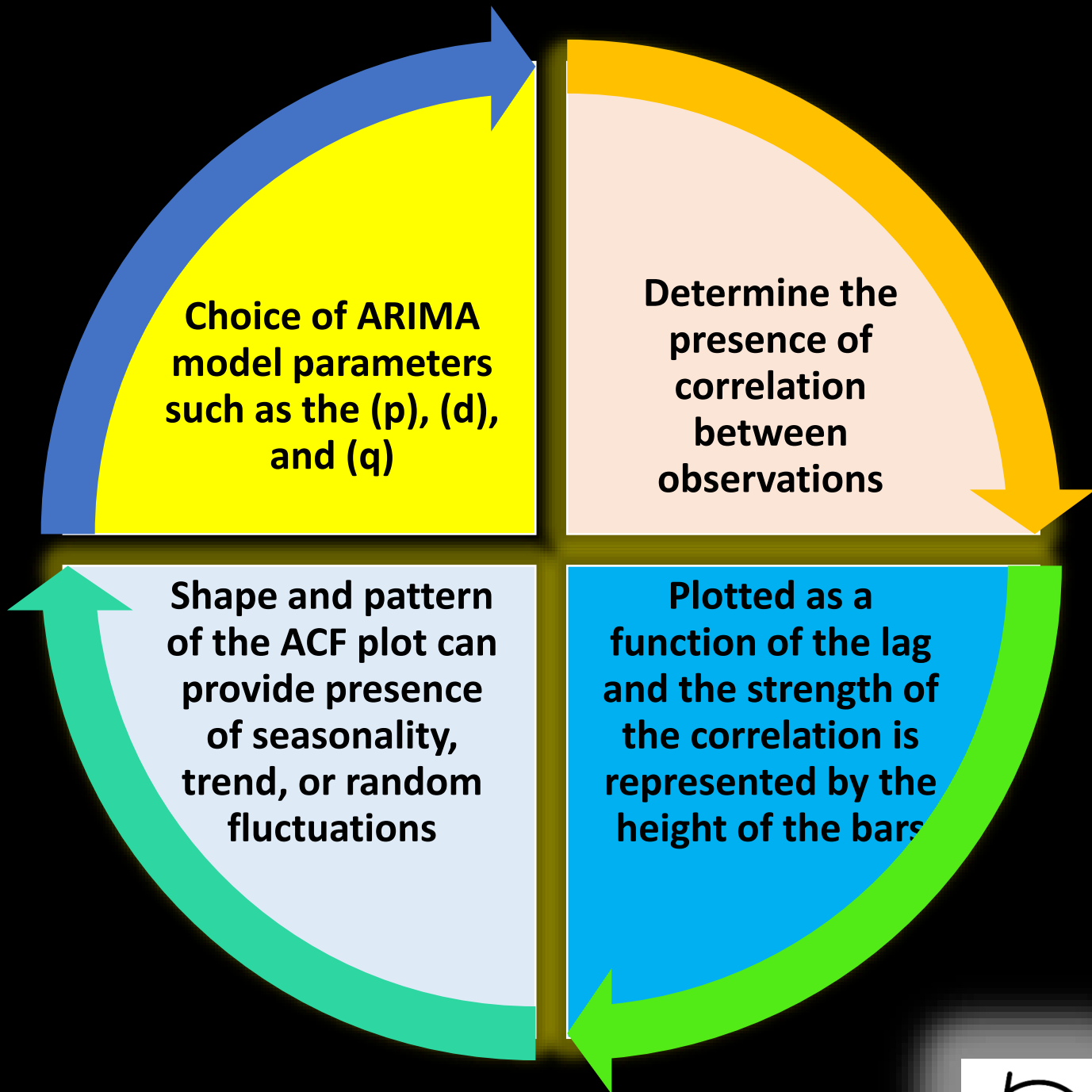
Moving Average



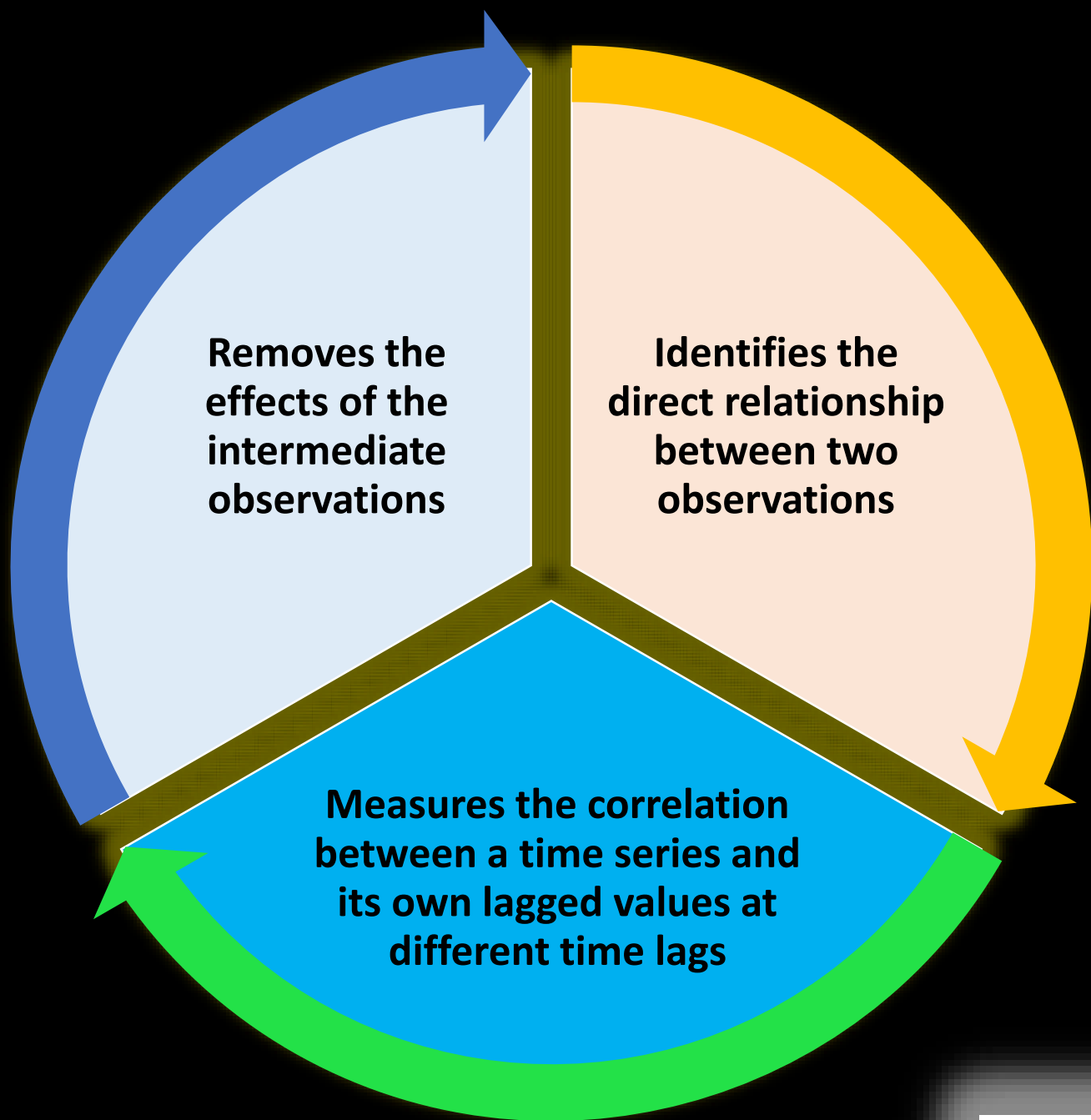
Stationarity



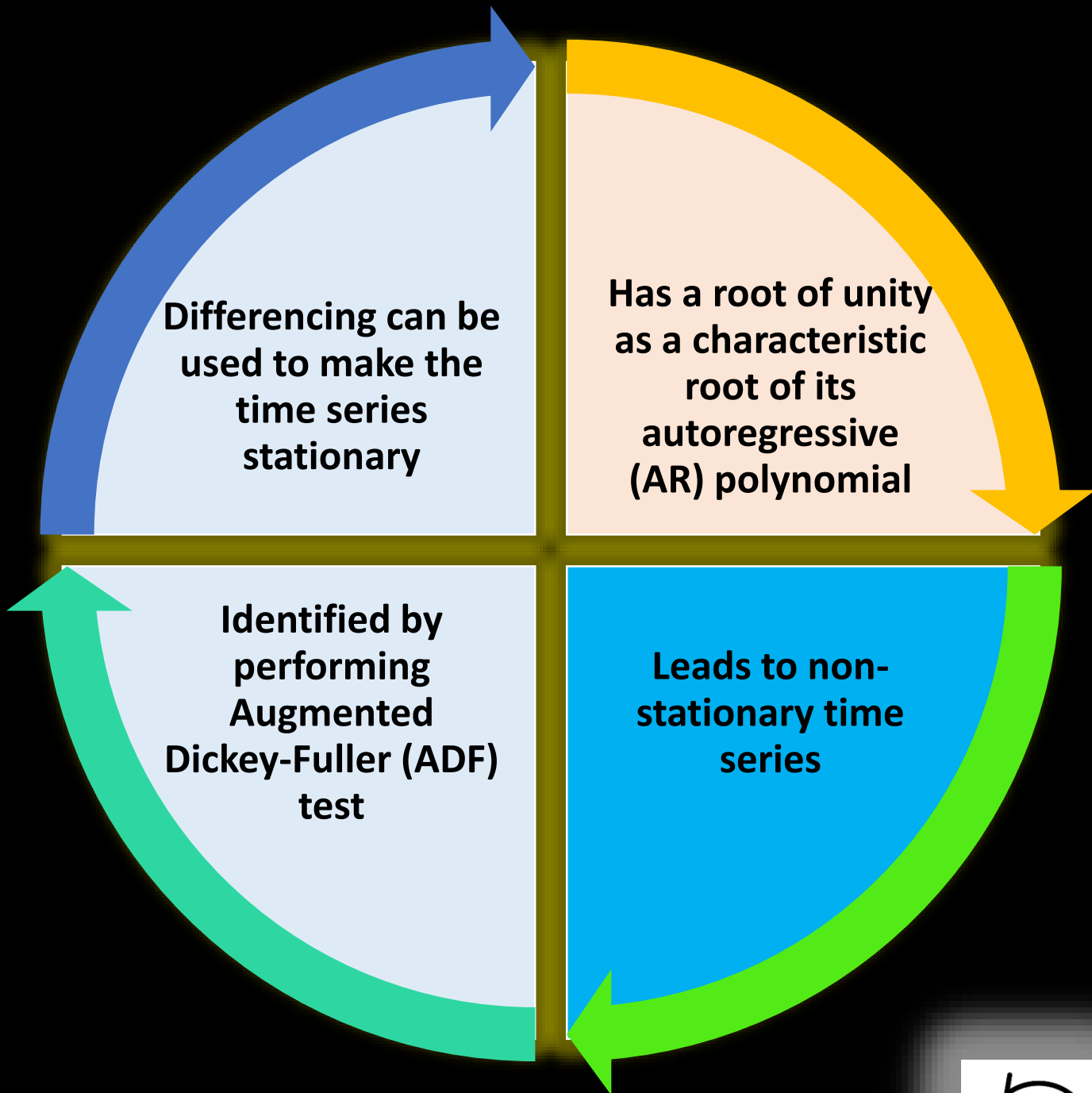
Autocorrelation Function



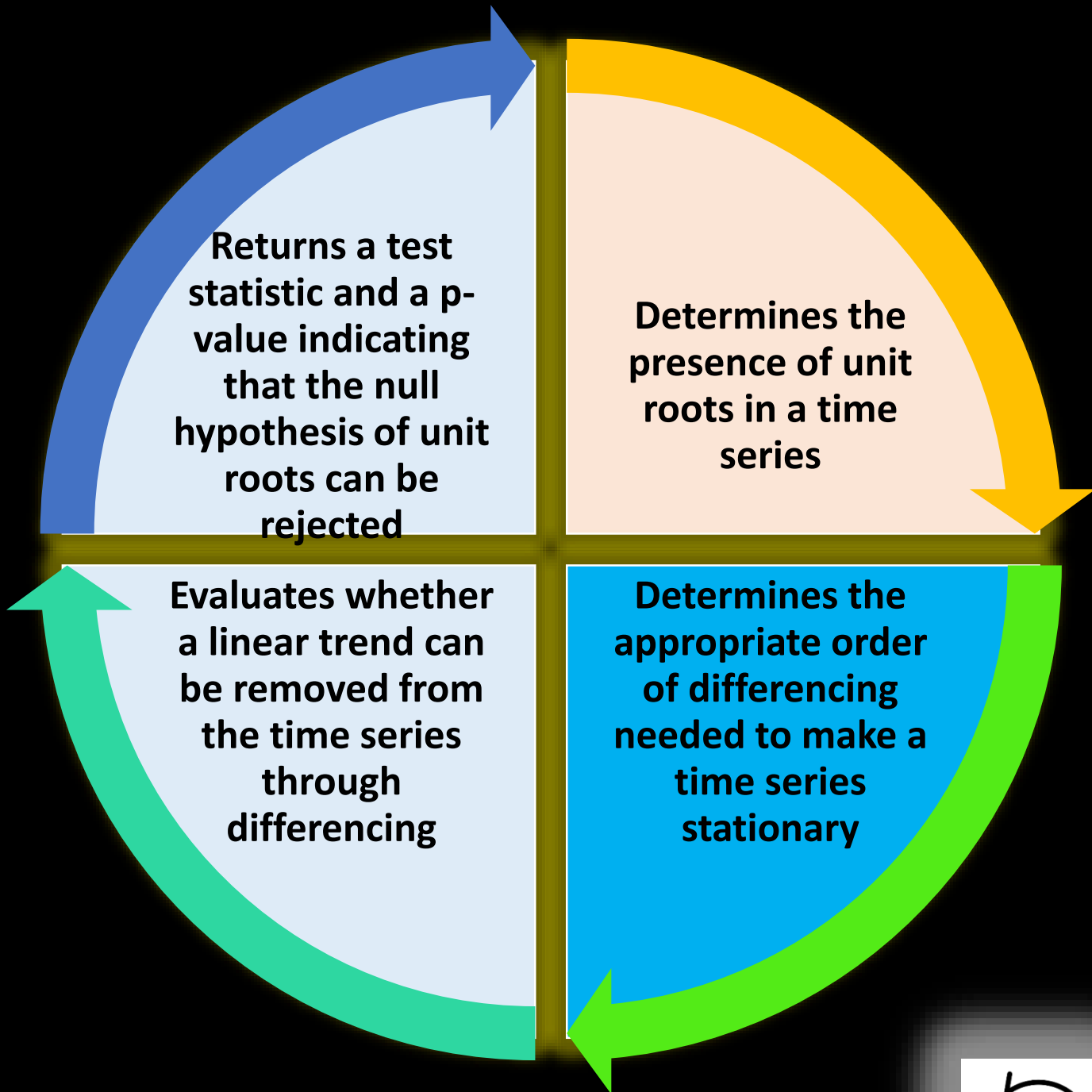
Partial Autocorrelation Function



Unit Roots



Augmented Dickey Fuller Test



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