

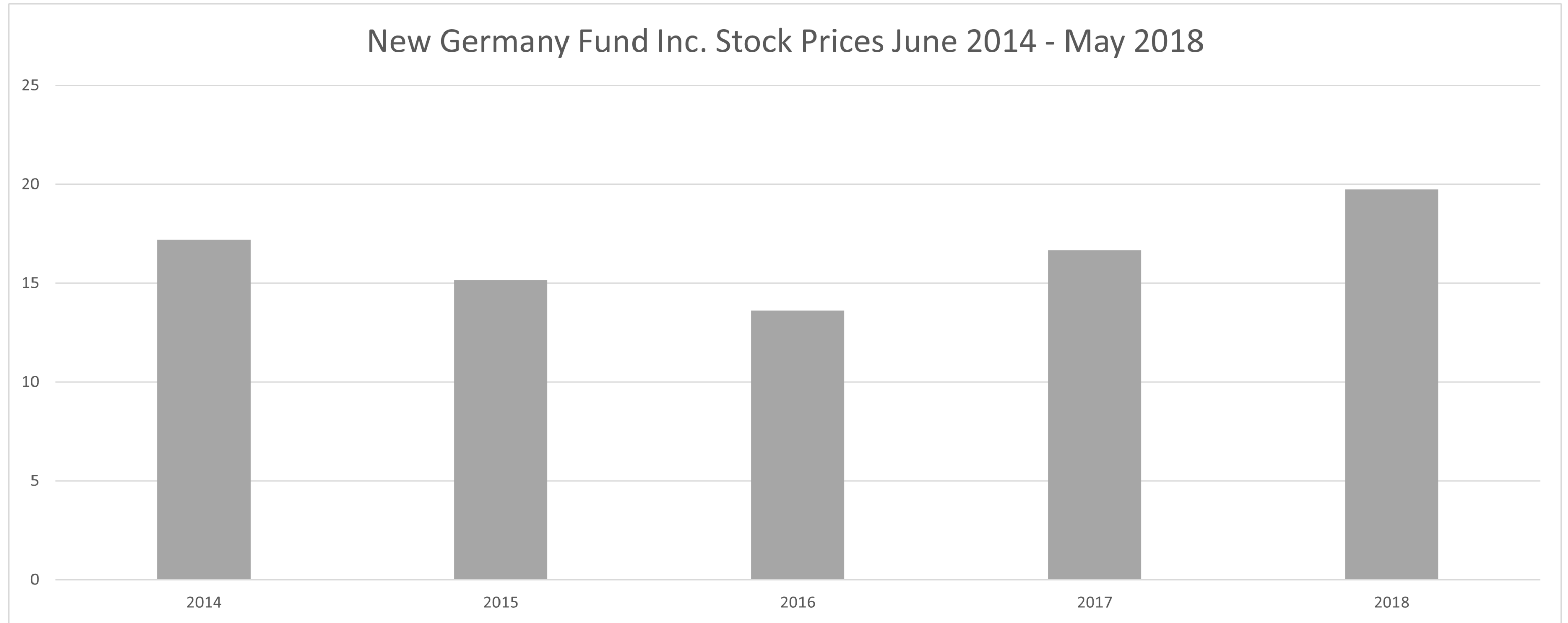
Time series run chart

TREND ANALYSIS IN POWER BI

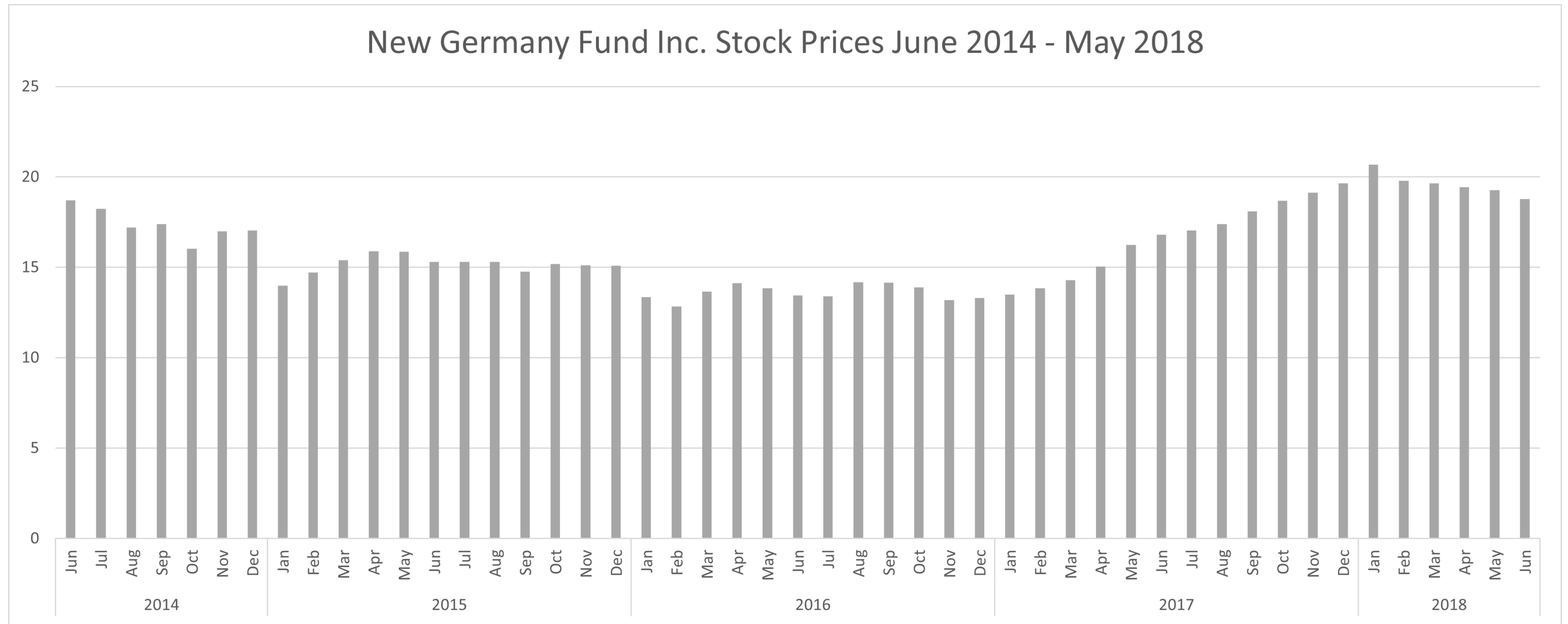


Jacob H. Marquez
Data Scientist at Microsoft

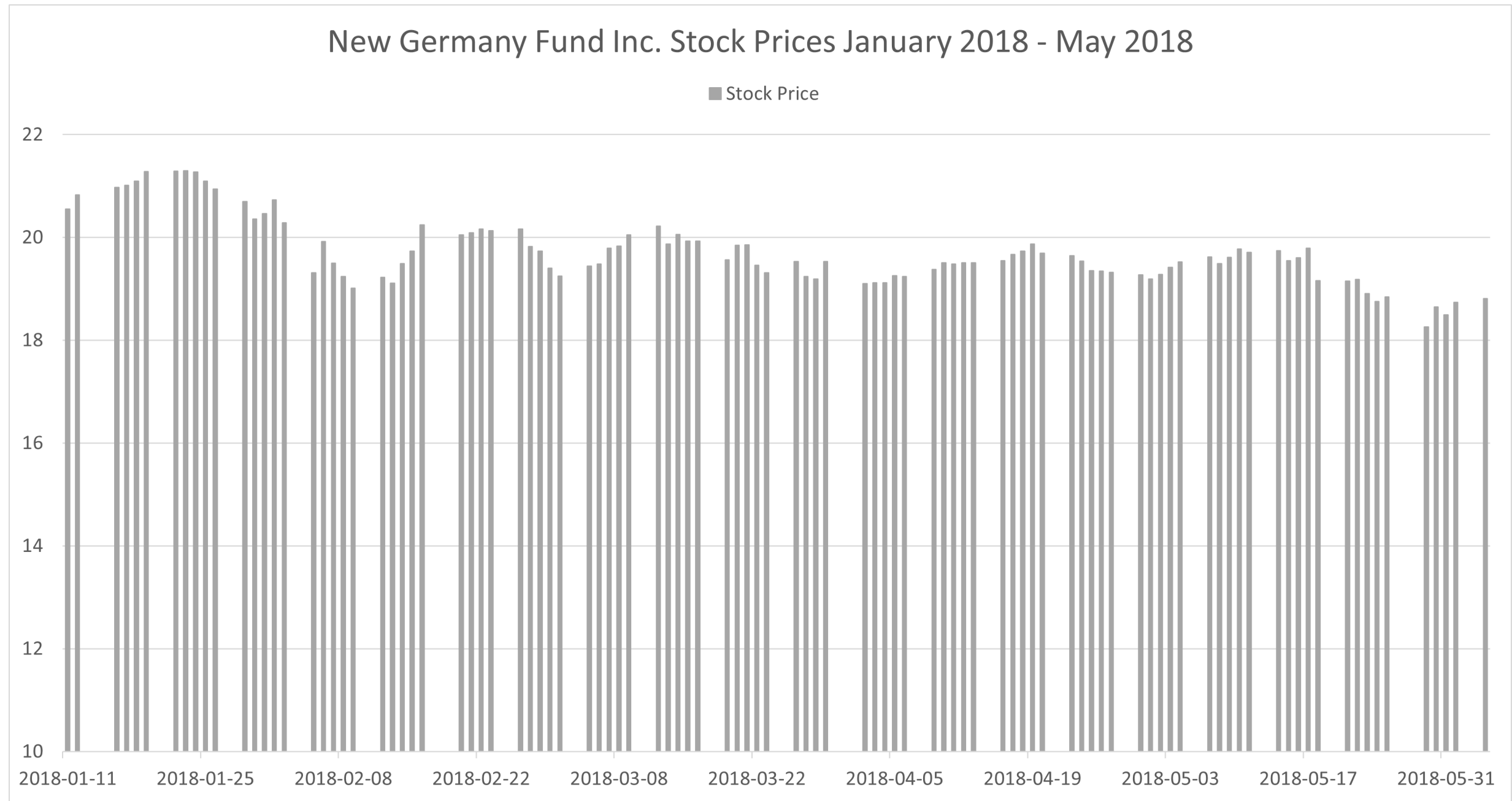
Visualizing a time series



Visualizing a time series



Visualizing a time series

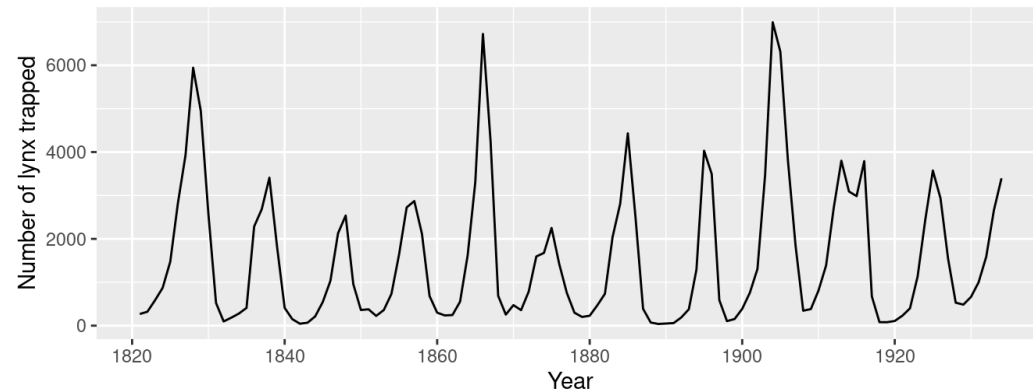


What is a run chart?



Patterns in a time series

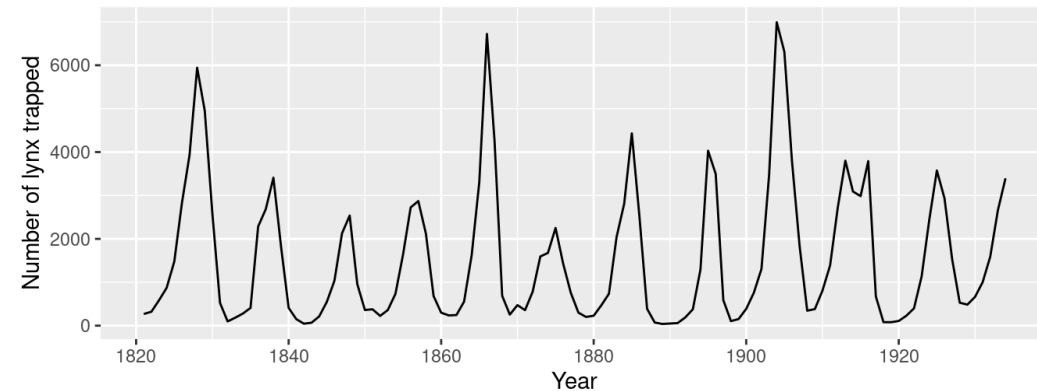
Cyclical



- Rise and fall patterns
- No fixed time period
- Pattern typically longer than a year in length
- Less predictable

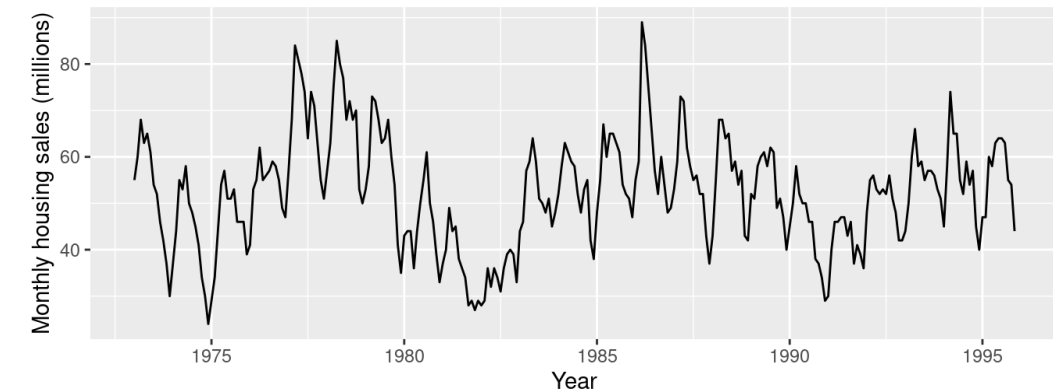
Patterns in a time series

Cyclical



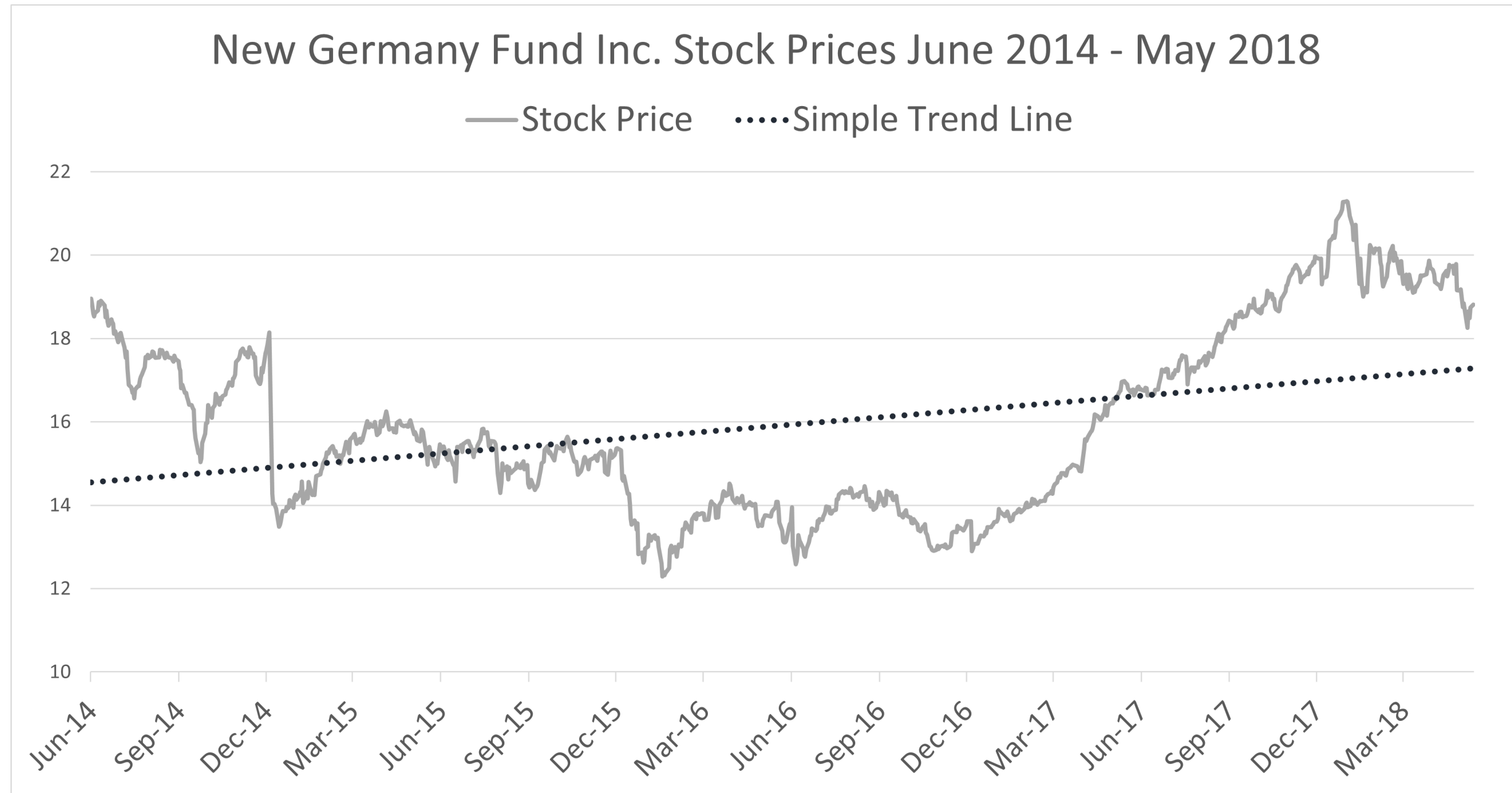
- Rise and fall patterns
- No fixed time period
- Pattern typically longer than a year in length
- Less predictable

Seasonality

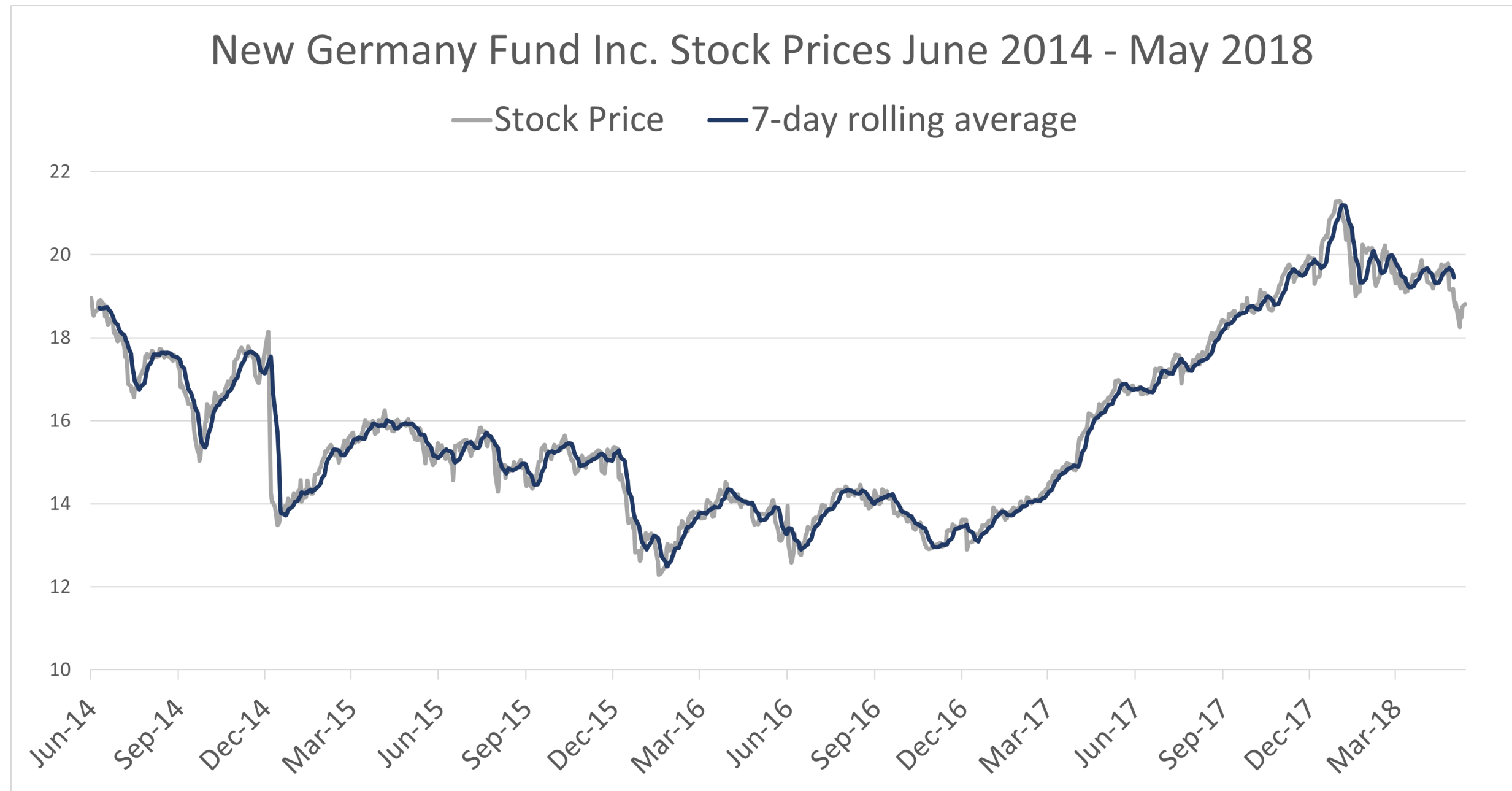


- Pattern is influenced by the season (ex. holiday spending)
- Fixed time periods
- Pattern typically occurs over less than a year

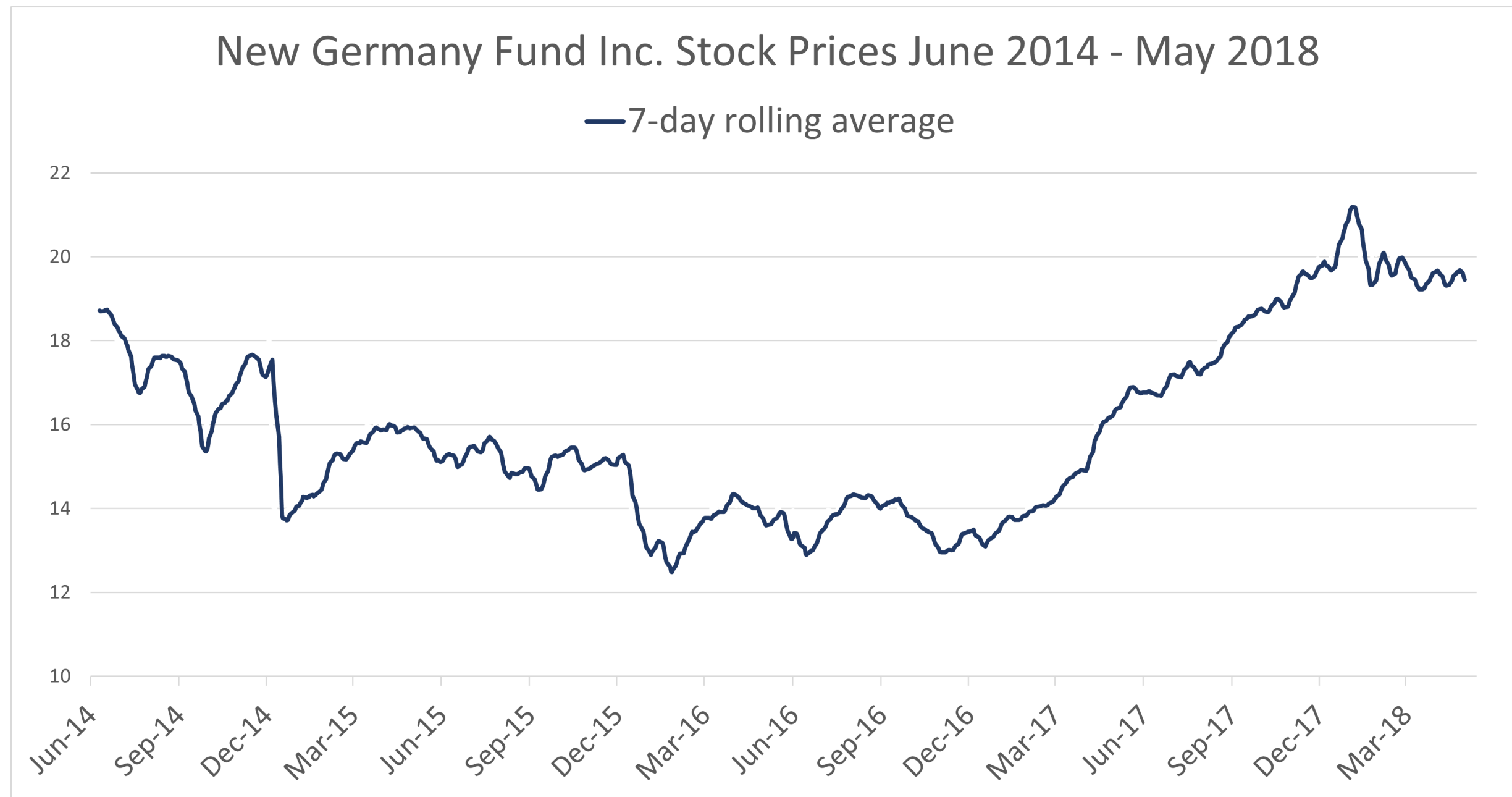
Evaluating the trend in the time series



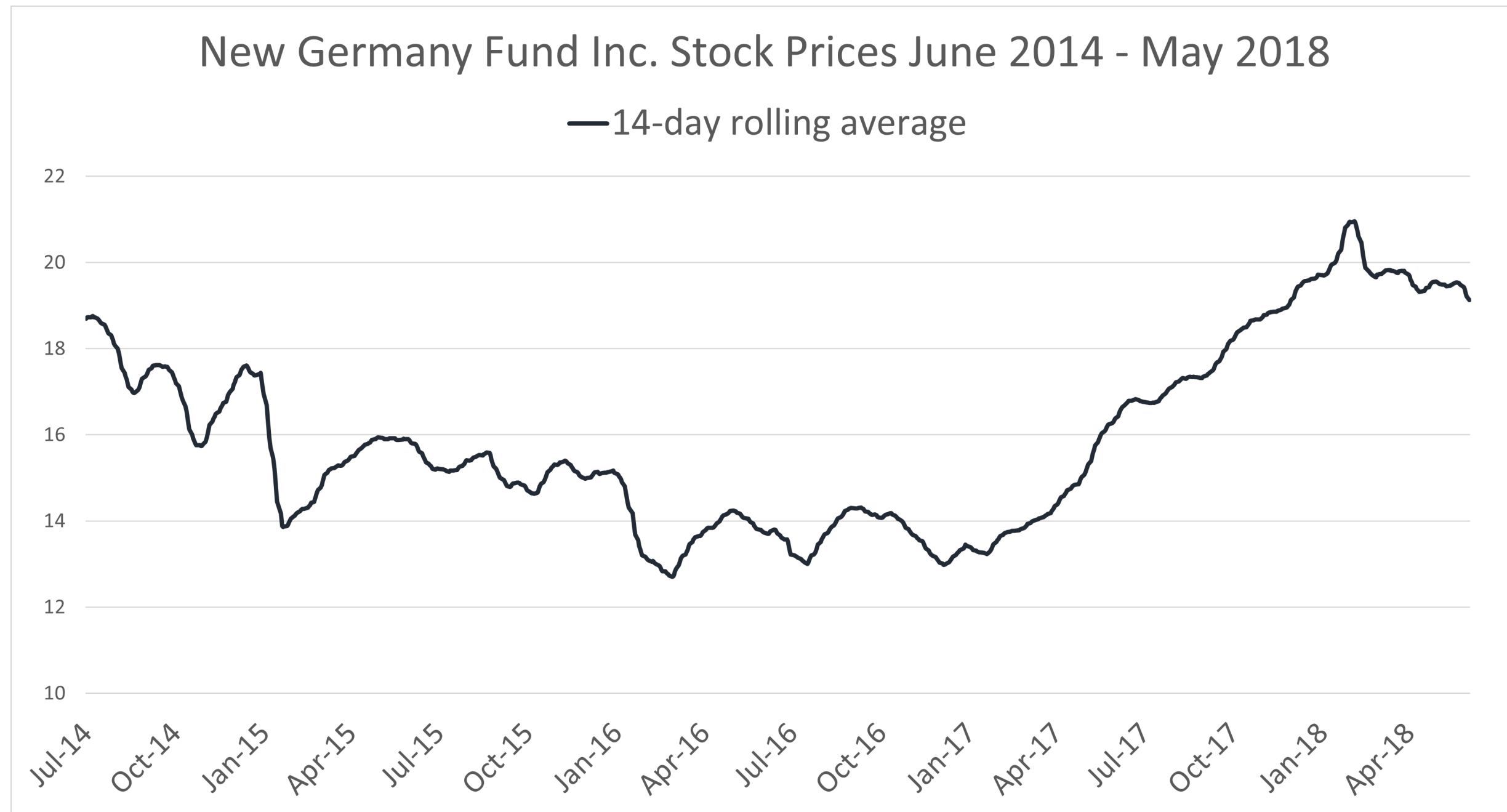
Trends with rolling averages



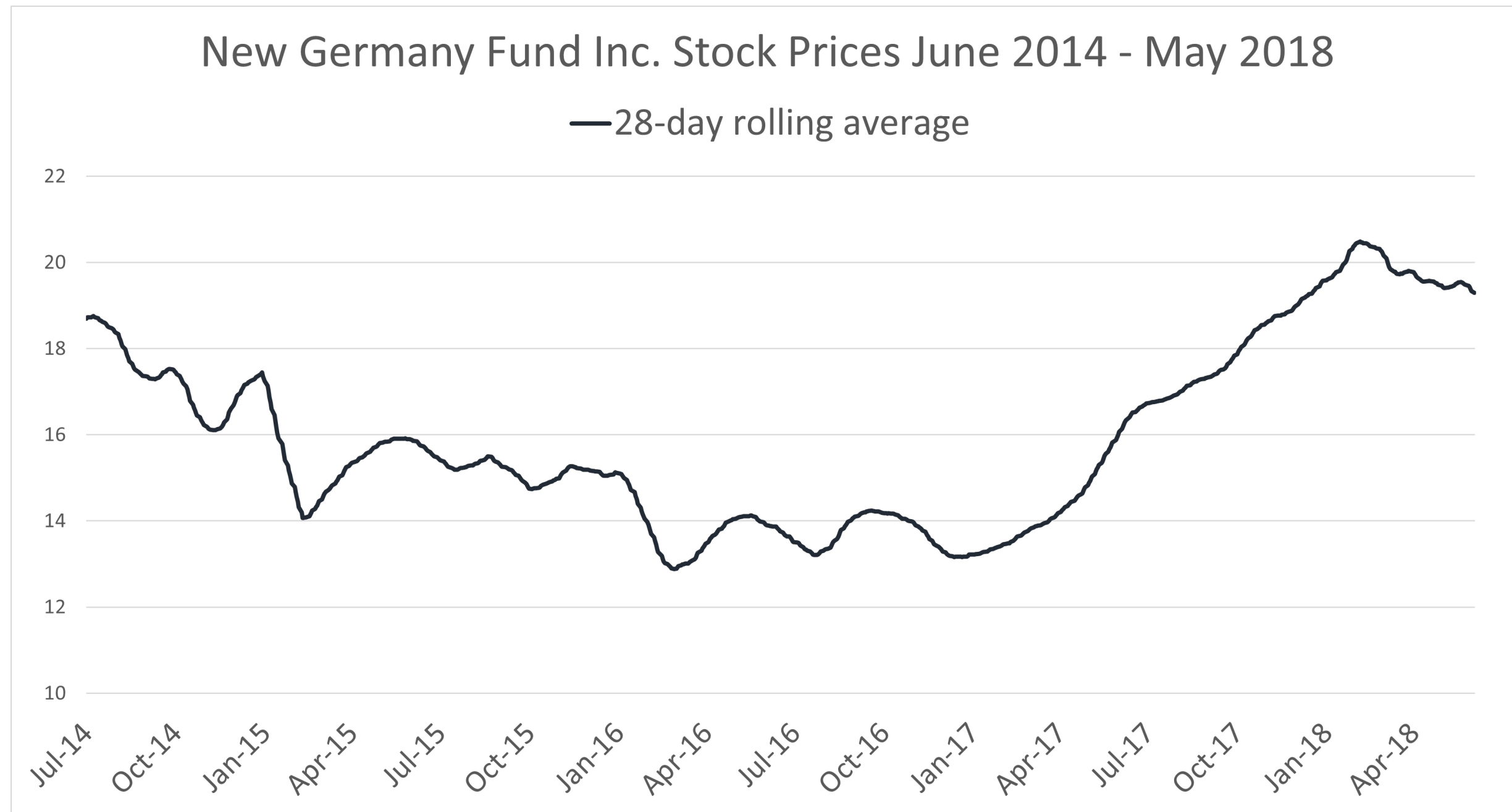
Smoothing with rolling averages



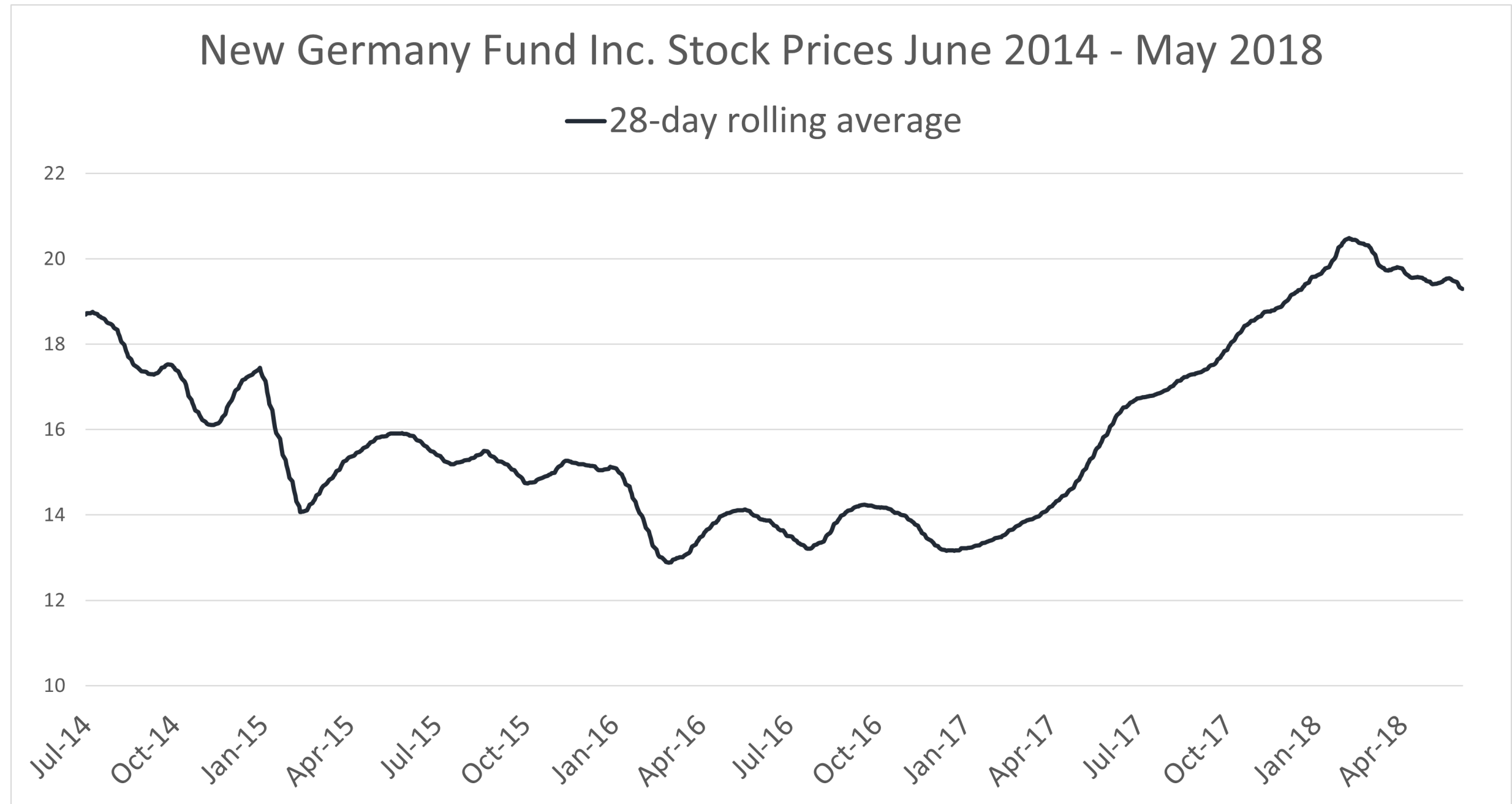
Smoothing with rolling averages



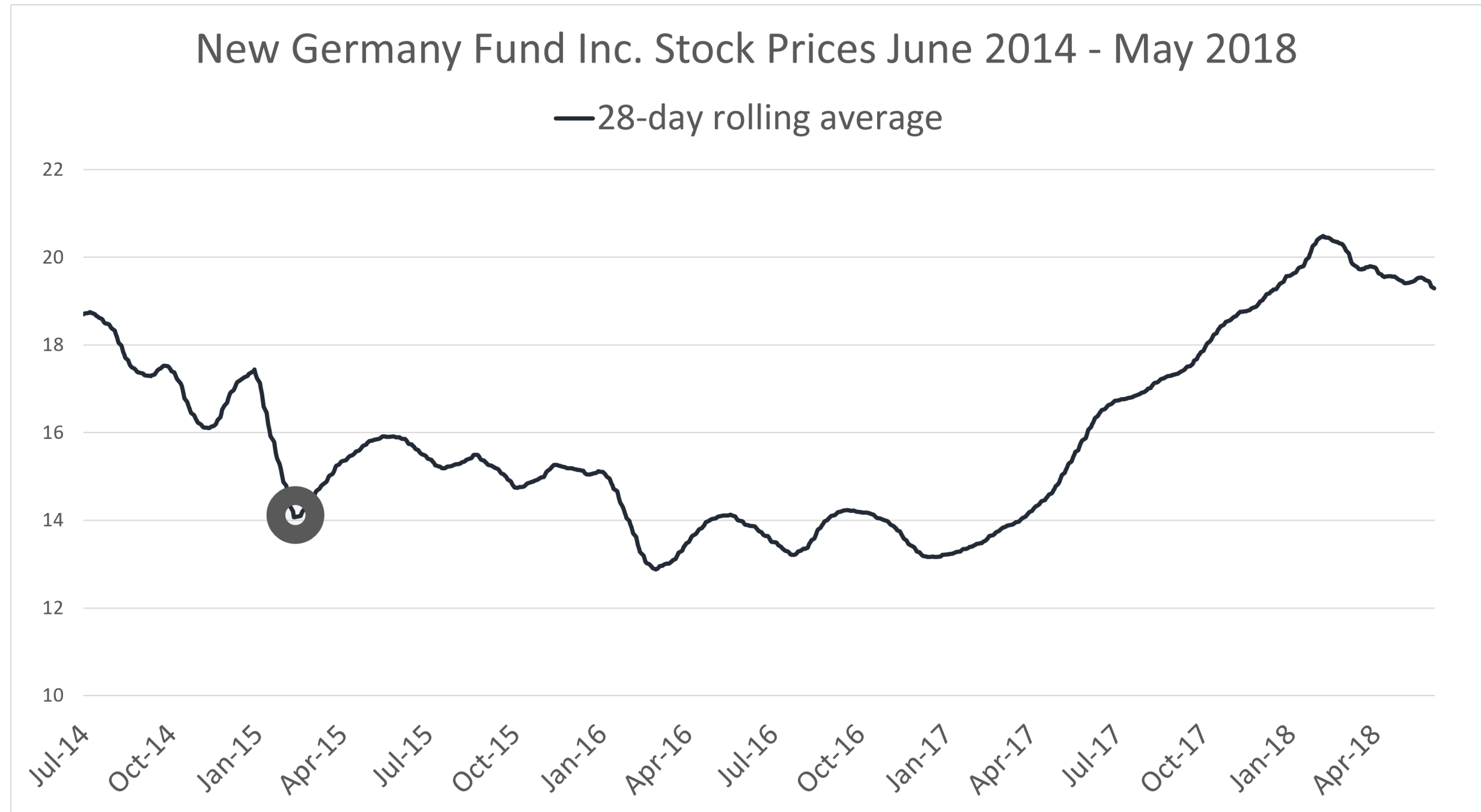
Smoothing with rolling averages



Anomalies in a time series



Anomalies in a time series



Let's practice!
TREND ANALYSIS IN POWER BI

Analyzing Glassdoor reviews over time

TREND ANALYSIS IN POWER BI



Jacob H. Marquez
Data Scientist at Microsoft

Let's practice!
TREND ANALYSIS IN POWER BI