Computation and Visualization for Analytics

Spring 2021

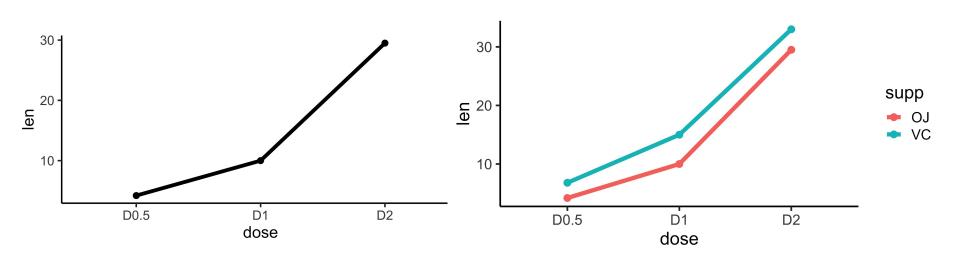
Week 7.1

Visualizing Trends

- Line Plots
- Time Series

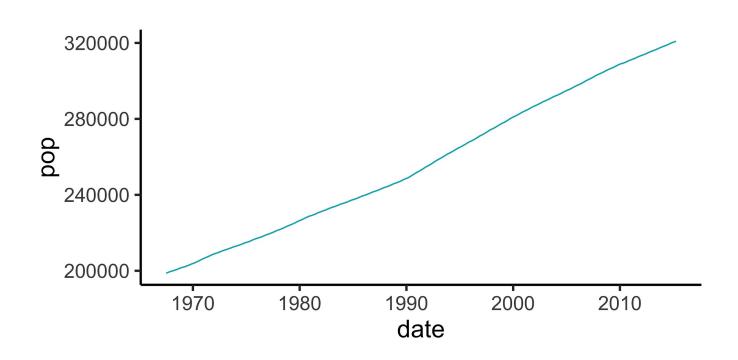
Line Plots

One (or two) categorical and one numerical axis

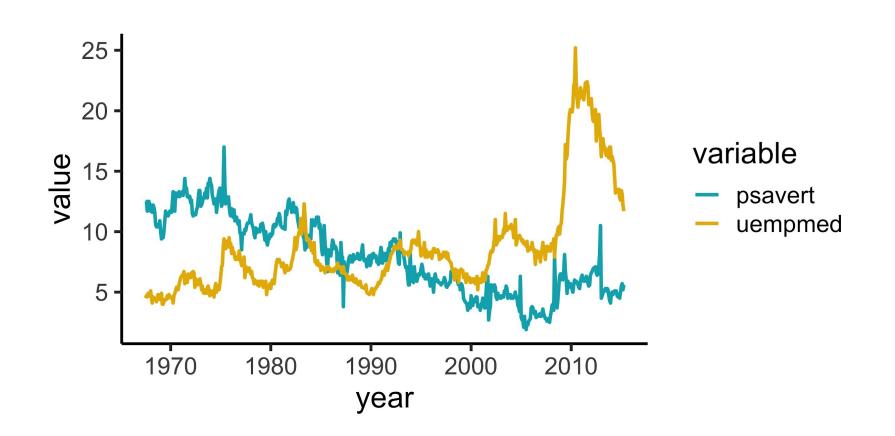


Line Plots

Both axis can be continuous



Line Plots -Time Series



Visual Components of a Time Series

- Trend
- Seasonal
- Cyclical

Classification of Time Series Patterns Additive Multiplicative No Seasonal Effect Seasonal Effect Seasonal Effect No Trend Effect Additive Trend Effect Multiplicative Trend Effect

[Pegels 1969 / Gardner]

