

Stationarity

PRACTICAL TIME SERIES ANALYSIS

THISTLETON AND SADIGOV

Objectives

- ▶ Get some intuition for (weak) stationary time series



No systematic change in mean

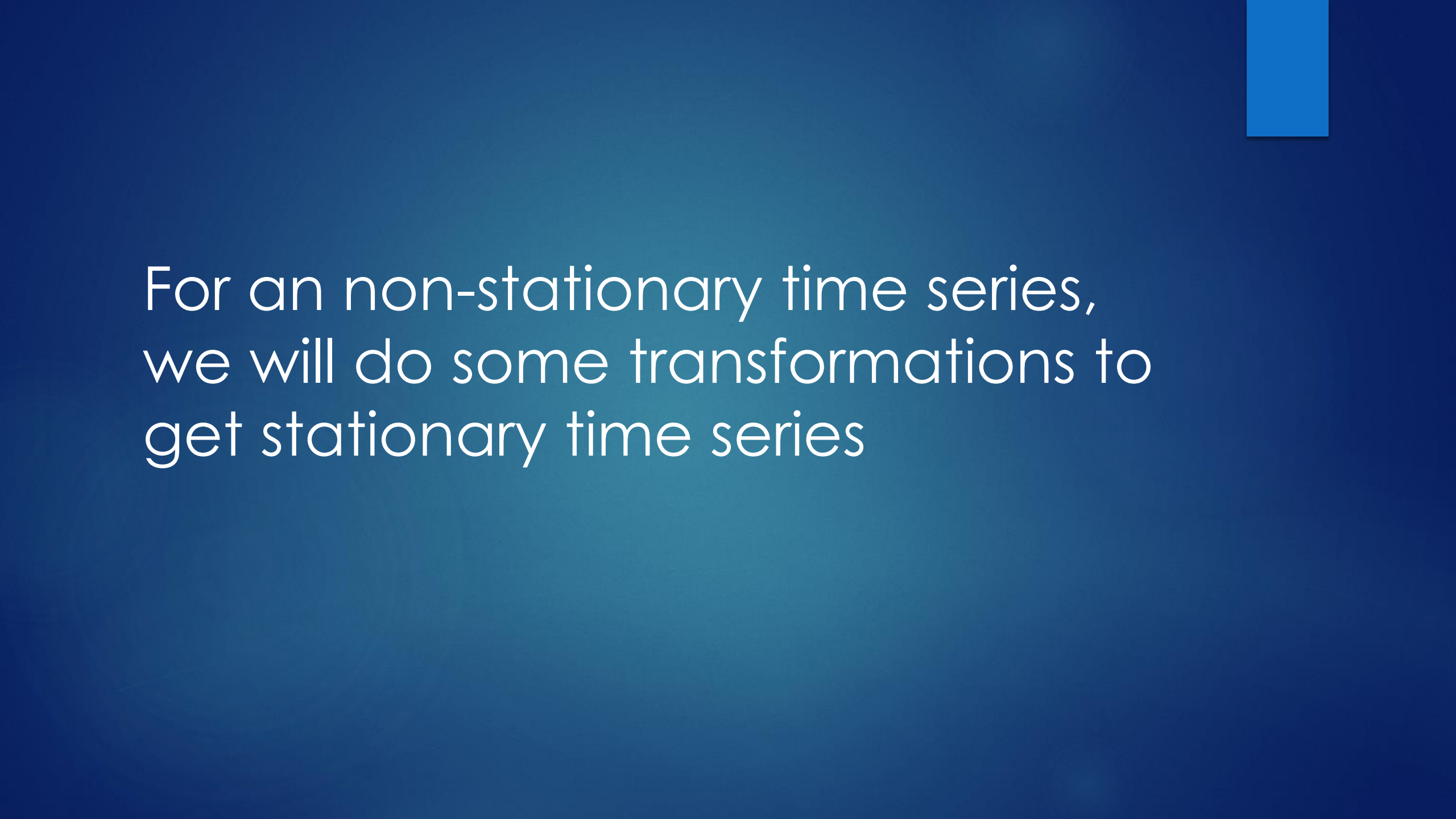
i.e., No trend

No systematic change in variation

No periodic fluctuations



The properties of one section of a data are much like the properties of the other sections of the data



For an non-stationary time series,
we will do some transformations to
get stationary time series

What We've Learned

In a (weak) stationary time series, there is no

- ▶ systematic change in mean (no trend)
- ▶ systematic change in variance
- ▶ periodic variations