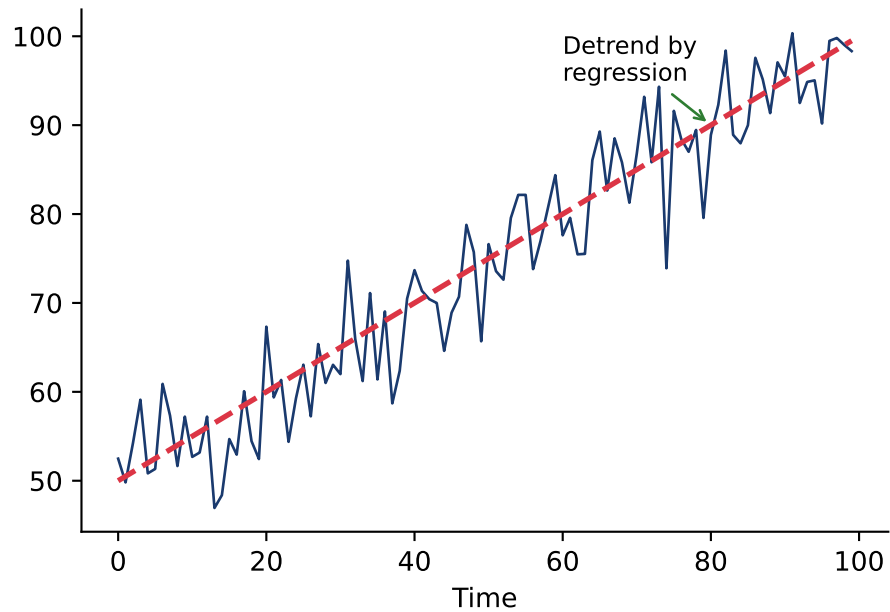


### Trend Stationary

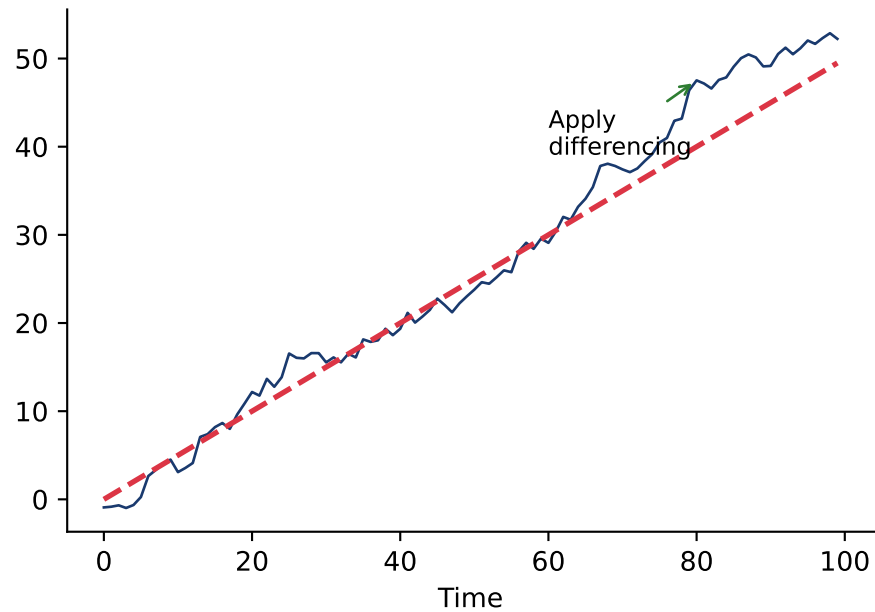
$$Y_t = \alpha + \beta t + \varepsilon_t$$



-- Deterministic trend

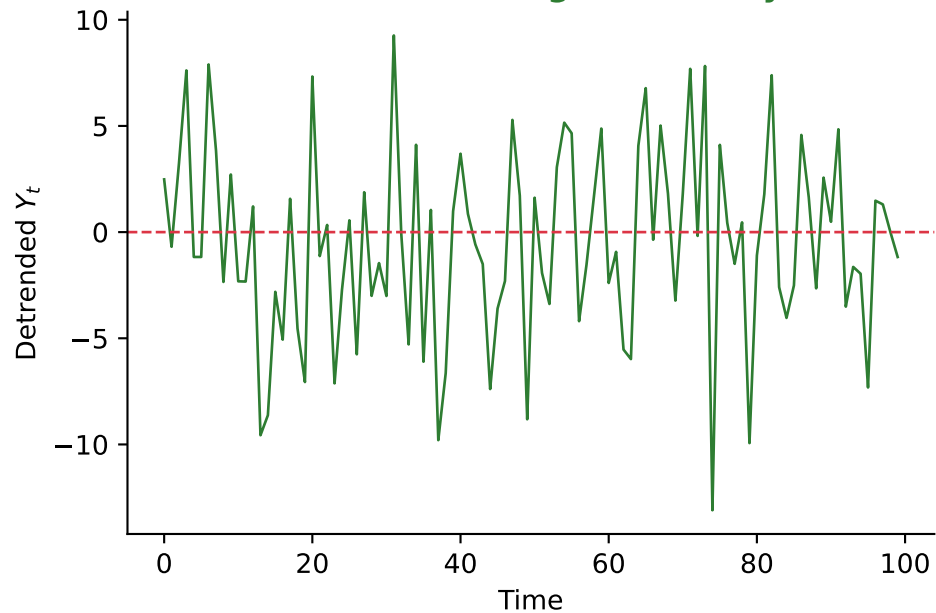
### Difference Stationary

$$Y_t = Y_{t-1} + \mu + \varepsilon_t$$

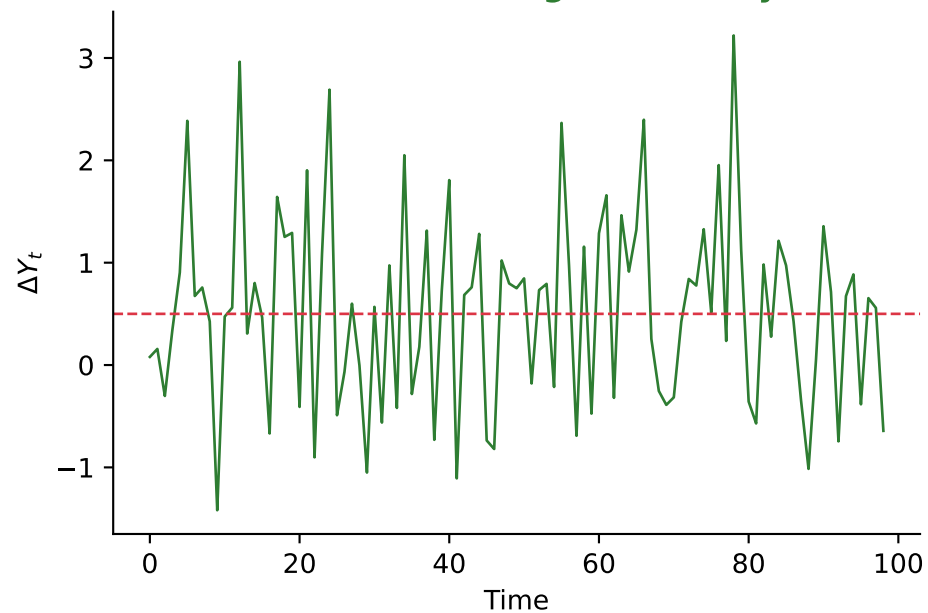


-- Expected path

### After Detrending: Stationary!



### After Differencing: Stationary!



-- Mean = 0.5