Simulating MA(2) process

PRACTICAL TIME SERIES ANALYSIS
THISTLETON AND SADIGOV

Objectives

- ▶ Simulate a moving average process
- Interpret correlogram of a Moving average process

MA(2) process

$$X_{t} = Z_{t} + \theta_{1} Z_{t-1} + \theta_{2} Z_{t-2}$$

Simulation - MA(2) model

$$X_t = Z_t + 0.7 Z_{t-1} + 0.2 Z_{t-2}$$

 $Z_t \sim Normal(0,1)$

What We've Learned

- ► How to simulate MA processes in R
- ► That ACF of MA(q) cuts off at lag q