



Other Types of Associations

- Basic association rules have several limitations
- Deviations from the expected probability are more interesting
 - E.g. if many people purchase bread, and many people purchase cereal, quite a few would be expected to purchase both
 - We are interested in **positive** as well as **negative correlations** between sets of items
 - Positive correlation: co-occurrence is higher than predicted
 - Negative correlation: co-occurrence is lower than predicted
- Sequence associations / correlations
 - E.g. whenever bonds go up, stock prices go down in 2 days
- Deviations from temporal patterns
 - E.g. deviation from a steady growth
 - E.g. sales of winter wear go down in summer
 - Not surprising, part of a known pattern.
 - Look for deviation from value predicted using past patterns