Systematic and Unsystematic Risk

What are the sources of Risk? (pp. 297 - 300)



* Actual returns (R) will be:

R + U (expected + unexpected)

- ** Investors form "expectations" about future
 - Expected information is already <u>discounted</u> by the market
 - i.e., the **value** of the information is already incorporated into the stock prices
 - Attempts to exploit *Public* information (make large returns) will not be successful



- ** Unexpected Returns: caused by surprises
 - Surprises can be GOOD or BAD!
- ** Total return (R) = E(R) + U
- ** Announcements are news only to the extent they contain "surprise" element
 - "No burglary in BG on Sept. 28" -- no news
 - "No burglary in New York on Sept. 28"-- major news!

Systematic vs. Unsys. Surprises

- **★ Systematic risk:**
 - •surprises that affect "large" no. of assets
 - Usually in the same "direction"
 - I/Rs, Unemployment, Elections, GDP,.....
- ****** Unsystematic risk:
 - •surprises that affect "small" no. of assets
- Some "firm-specific" news turn into "economy-wide" events!!!
- $R = R + U = R + m + \varepsilon$

Risk: Systematic & Unsystematic

