

# Event Study Analysis of Share Price and Market Index Data

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MSc Computing for Financial Markets



## Java Application - ESA

# OUTLINE

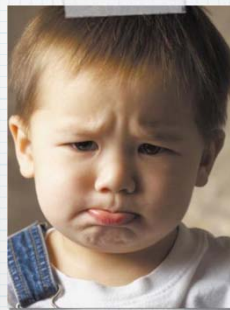
- \* Users of ESA
- \* Financial Background
- \* Java Application

# USERS

Experts???



Small Investors!!!  
Outsider!!!



# Event Study Analysis

- \* Significant reaction to event in market value
  - \* Event - Mergers, Issues of new equity
  - \* Market Value - Stock price
    - \* Individual Company Stock Price : APPL (Apple)
    - \* Market Stock Price: FTSE 100 (UK)

# Models

- \* Basic Financial Theory

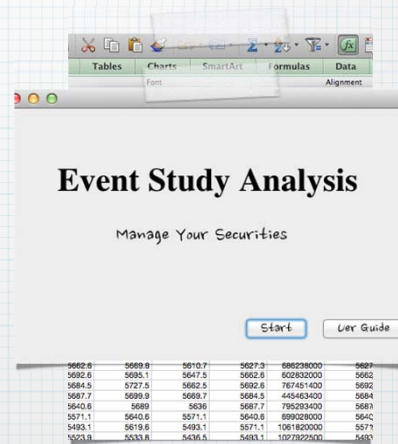
Abnormal Return = Actual Return - Expected Return



# Java Application

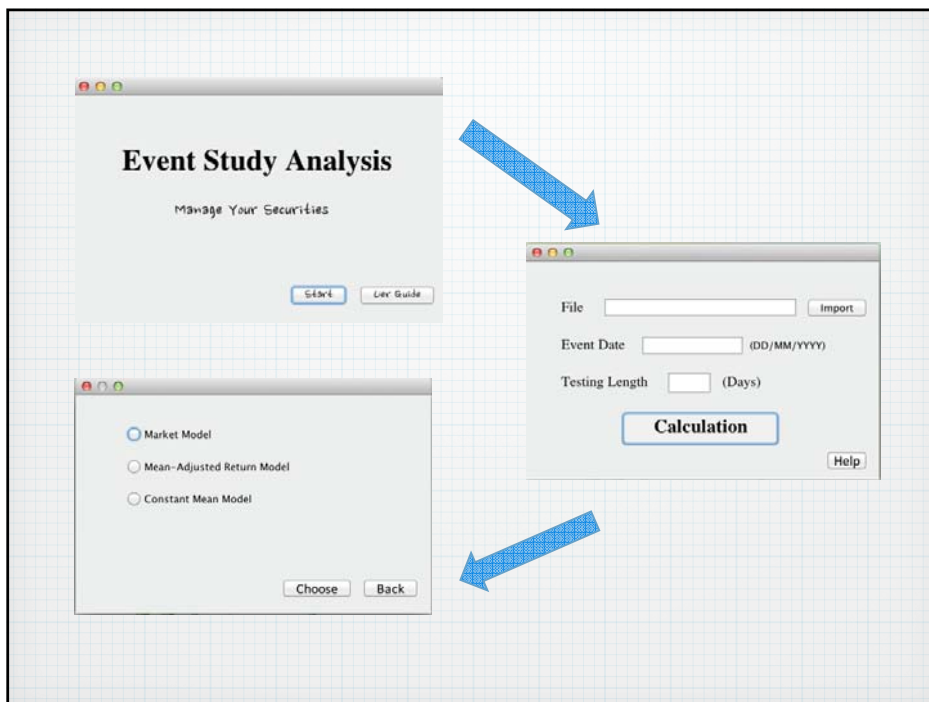
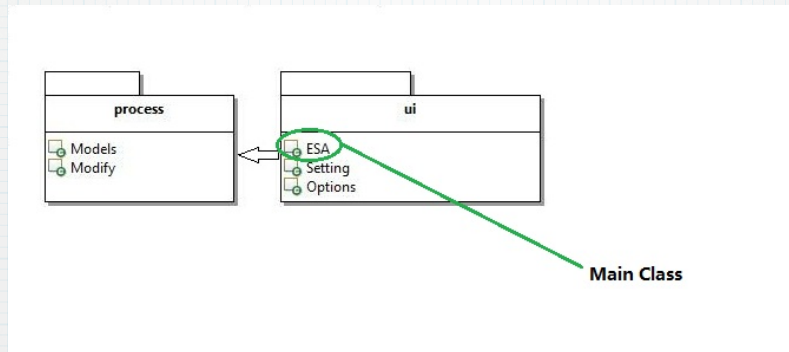
- \* Normal Way :  
Microsoft Office Excel

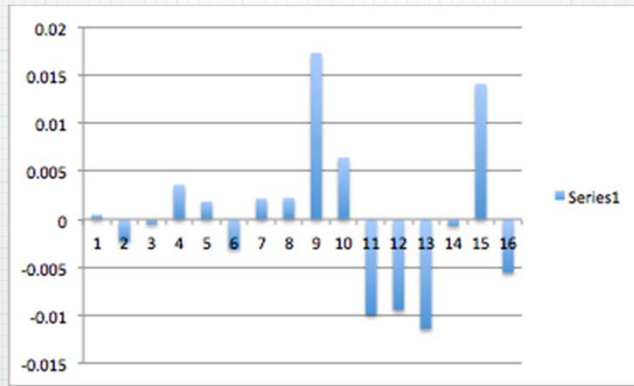
- \* Java
  - \* Java Excel API
  - \* Apache POI



- \* JAVA EXCEL API (JXL)
  - \* Simple and easy understand
  - \* Limitation: Supporting Excel 95-2000
- \* Apache POI
  - \* Java API for manipulating Excel
  - \* Supporting Excel 97-now
  - \* Supporting Functions
  - \* Limitation: Evaluations

# Program Structure





Thank You !