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APPLIED STATISTICS & ECONOMETRICS WITH R

คู่มือการวิเคราะห์ทางสถิติและเศรษฐมิติประยุกต์ด้วยโปรแกรม R

www.pairach.com/aser

Econometrics with R

MBA in Logistics & Supply Chain Management
Mae Fah Luang University, 30 March 2013

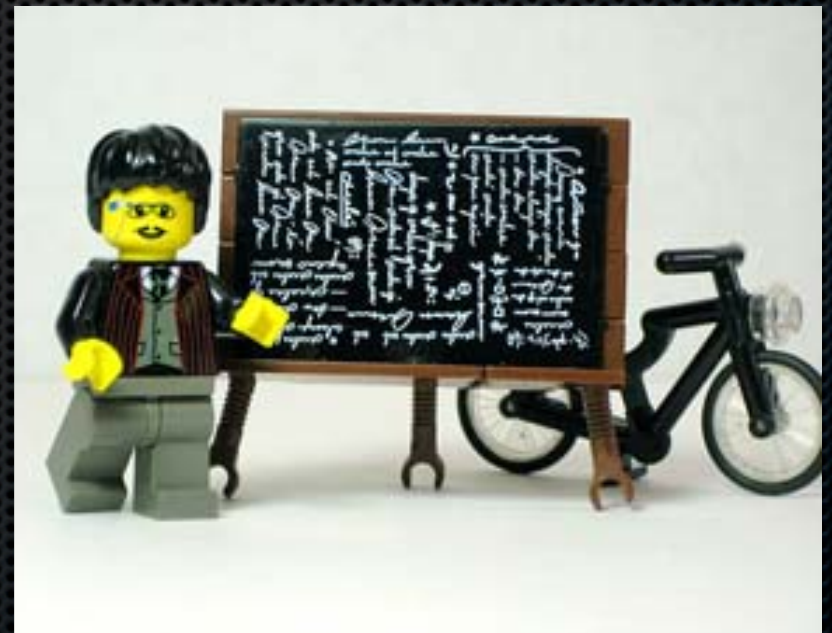
Outline

- ✦ **Saturday March 30th**
 - ✦ Morning = Present model you will use
 - ✦ Afternoon = ASER Training (describe, t-test, ANOVA, regression)
- ✦ **Sunday March 31st**
 - ✦ Presentation



What is Econometrics?

- ✦ The branch of economics concerned with the use of **mathematical methods** (esp. statistics) in **describing economic systems**.



What is Econometrics?

- ✦ The application of **mathematics**, **statistical methods**, and, more recently, **computer science**, to **economic data** and is described as the branch of economics that aims to give **empirical content** to economic relations. (Pesara, 1987)



FUEM: Frequency Used Econometrics Methods/Models

- ✦ t-test
 - ✦ Pair-sample
 - ✦ Independent
- ✦ ANOVA
- ✦ Regression
- ✦ Factor Analysis
 - ✦ EFA & CFA



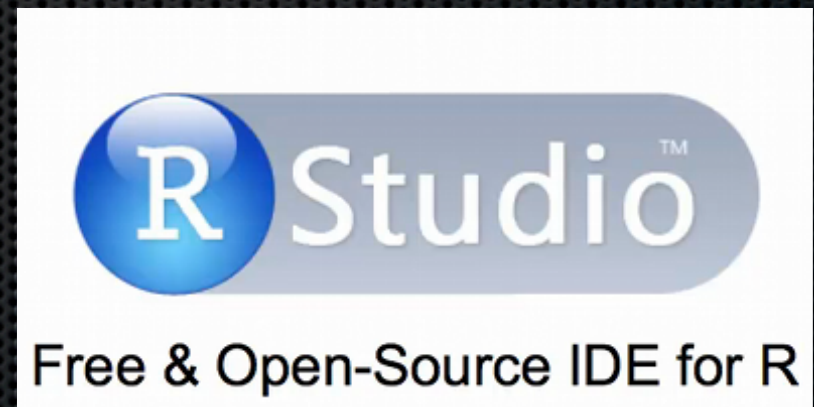
What is R?

- ✧ **Statistical** software/environment
- ✧ **Free** & Open-source
- ✧ **Object oriented**
- ✧



Why RStudio IDE

- ✦ Better User Interface
- ✦ Advanced but Easy to Use IDE
- ✦ Still FREE & Opensource
- ✦ Multiple Platform



Why R?

- ✦ **Easy** for model building / development
- ✦ **Free** & Open-source
- ✦ **Friendly** Ecosystem
 - ✦ Internet, RUGs
- ✦ R = the '**lingua franca**' of data analysis and statistical computing
- ✦ Multiple platforms



Install R



Install RStudio

