

Practical Spatial Statistics & Econometrics with R

Session 2: Working with Tabular Data

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How to excel at spatial stats (or anything else)?

Understanding

Clear conceptual understanding

Listening, Reading, Thinking, Writing

Skill

Apply understanding to real world problems.

Doing, Trying, Failing, Coding

~~Watching to a lot of lectures (like this one)~~

~~Reading many programming books~~

What should we know/will we learn in this session?

Understanding

What we should know:

- What is R, RStudio, R package
- Tabular structure (rows and columns)
- Data types and operators
- CSV file format

Skill

What we should have already done:

- Setup our computer for R development
- Installed the **gstat** package

What we will do now:

- **Install the **sp** package**
- **Examine, export tabular data in R**
- **Do some basic stats on tabular data**
- **Write our very first R script and make our very first R plot!**

Demo 2: Live Coding Session with R

Summary

- Installed the `sp` package
- Examined and worked with the `meuse` data set provided by `sp`
- Exported data to CSV
- R functions
 - `head`, `colnames`, `nrow`, `ncol`, `write.csv`, `read.csv`, `summary`, `var`, `hist`
- R Operators
 - `?`, `[]`, `$`
- Useful links
 - `gstat` [manual](#), `sp` [manual](#), `meuse` data set [tutorial](#)