



A Repository for R in Economics

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Lecture 4: ggplot2 and Basics of Spatial Data

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# Introduction

We now know the basics of objects and how to “patch” things together in R. Before and advanced applications, we should have a look into ggplot2 and using R to create figures.

The lecture material follows partially <https://r-spatial.org/book/01-hello.html>.

# Getting Started

```
#####-----  
#####----- 1. Packages -----  
#####-----  
# Run once if needed:  
# install.packages(c("tidyverse", "sf"))  
library(tidyverse)  # loads ggplot2, dplyr, etc.  
library(sf)  
  
#####-----  
#####----- 2. ggplot2 -----  
#####-----  
# ggplot2 builds plots layer by layer with different geometric objects  
# We can first use the classic miles per gallon example.  
data(mpg, package = "ggplot2")  
head(mpg)
```