Hands-on Exercise 1

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## 1 Overview

This xxx

## 2 Getting Started

The code chunk below will install and load tidyverse and sf packages.

pacman::p\_load(sf, tidyverse, spdep)

## 3 Importing Geospatial Data

### 3.1 Importing polygon features

This code chunk will import ESRI shapefile into R.

hunan\_sf <- st\_read(dsn = "data/geospatial",  
 layer = "Hunan")

Reading layer `Hunan' from data source   
 `D:\tskam\ISSS624\In-class\_Ex\In-class\_Ex1\data\geospatial'   
 using driver `ESRI Shapefile'  
Simple feature collection with 88 features and 7 fields  
Geometry type: POLYGON  
Dimension: XY  
Bounding box: xmin: 108.7831 ymin: 24.6342 xmax: 114.2544 ymax: 30.12812  
Geodetic CRS: WGS 84

### 3.2 Importing attribute data in csv

hunan <- read\_csv("data/aspatial/Hunan\_2012.csv")

Rows: 88 Columns: 29  
── Column specification ────────────────────────────────────────────────────────  
Delimiter: ","  
chr (2): County, City  
dbl (27): avg\_wage, deposite, FAI, Gov\_Rev, Gov\_Exp, GDP, GDPPC, GIO, Loan, ...  
  
ℹ Use `spec()` to retrieve the full column specification for this data.  
ℹ Specify the column types or set `show\_col\_types = FALSE` to quiet this message.