Week 04 • 데이터 저널리즘

Data Processing

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human-computer interaction + design lab.

오늘 다룰 내용

- Data Processing Process
- CSV import
- Fix Data Type
- Understand Data through Exploration
- Data Filtering
- Add Key(Column) to the Data

Data Processing



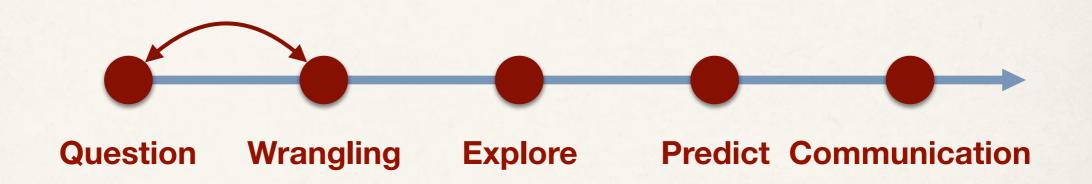
- Question Phase
 - Characteristics of students who finish MOOC lectures
 - Age and gender distribution of people who spend money in Gangnam area

- Wrangling Phase
 - Data acquisition where to get data to answer the questions
 - Data cleaning (in most case) data need to be cleaned
 - we spend most of our time for this...(80~90%)

- Explore Phase
 - Build intuition by exploratory data analysis
 - information visualization
 - find patterns

- Prediction Phase
 - Predict results of out question
 - eg. Age and gender distribution of people who spend money in Gangnam area => According to our data analysis, 20-30 women spend more money in this area. => marketing insights
 - Usually requires statistics or machine learning

- Communication Phase
 - Data Journalisms
 - Blog Posts
 - Data Visualizations
 - + Papers



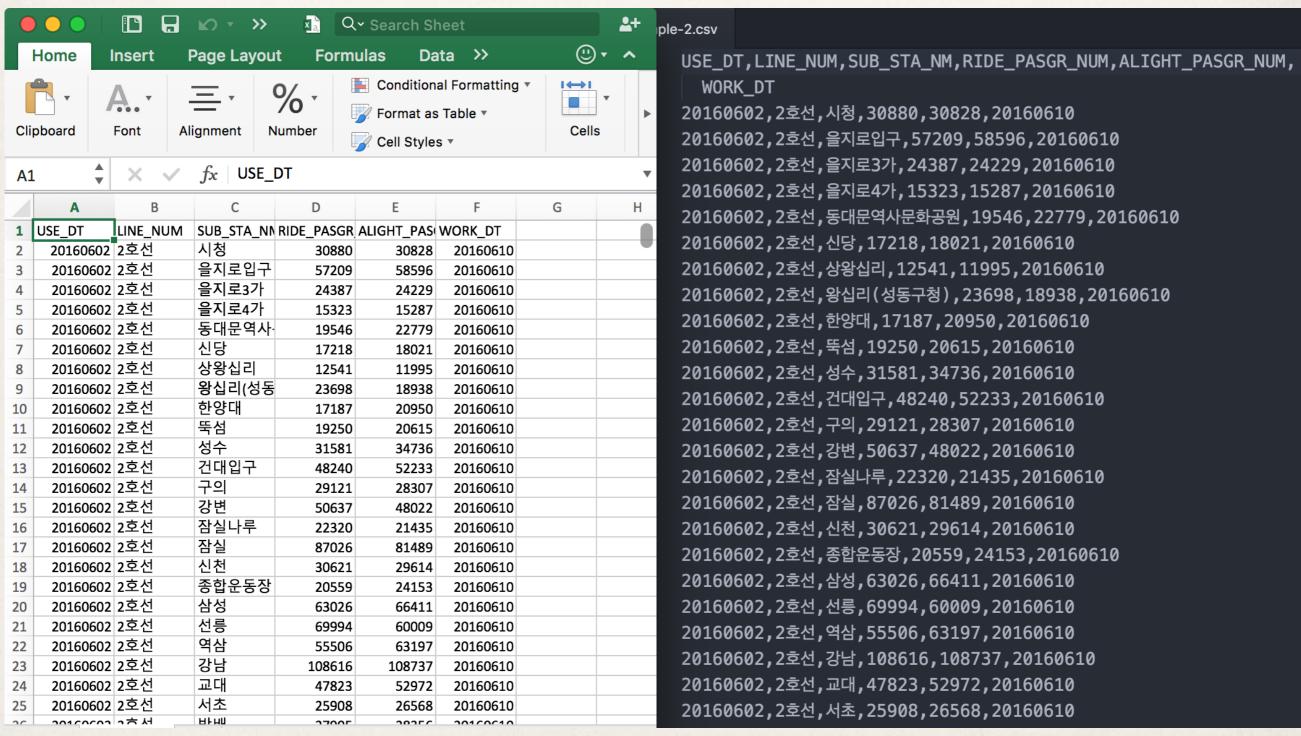
Data Acquisition

- Downloading files
- Accessing an API
- Scraping a web page
- → will do these later

Data Format

- CSV: Comma Separated Values
 - data column separated by comma
 - text file format (xls is binary format) → can read from text editors

Data Format



What are we going to do today?

- CSV import
- Fix Data Type
- Understand Data through Exploration
- Data Filtering
- Add Key(Column) to the Data

Data & Code

- Modified from "Introduction to Data Analysis" course at Udacity.
- Using their login data.
 - Data description included.

Questions?