# Week1

* Setting the reasons for tidying date
* Raw data >>>>> tidy data – clean up process takes a lot of resources, and sometimes gets very little attention
* *Data – Data are values of qualitative and quantitative variables belonging to a set of items*

## Components of Tidy Dat

* Four things you should have;
* raw data
* tidy data
* a code book describing each variable in the tidy data set
* an exact receipt book

## Code book(word/ text)

* Information about the variables and units
* Summary choices
* Experimental study designs

Working directory, can be done relatively = setwd(“.\data”), setwd(“../”)

## XML files(Extensible Markup Language )

File format that human and machine readable. Forcused mostly on readable documents, however supports

* Tags – start, end and line breaks
* Elements , like a template
* Attributes – components

## JSON files

* [https://www.r-bloggers.com/new-package-jsonlite-a -smarter-json-encoderdecoder/](https://www.r-bloggers.com/new-package-jsonlite-a%20-smarter-json-encoderdecoder/)
* Jsonlite vignette
* <http://www.json.org/>