

[Home](#)[Code of Conduct](#)[Setup](#)[Episodes ▾](#)[Extras ▾](#)[License](#)[Improve this page !\[\]\(003082e50e3009141f59bd5df831749f\_img.jpg\)](#)

# Data Organization in Spreadsheets for Social Scientists: Glossary

## Key Points

### Introduction

- Organizing your data tables according to tidy data principles will make them easier for you and others to use for analysis.

### Formatting data tables in Spreadsheets

- Never modify your raw data. Always make a copy before making any changes.
- Keep track of all of the steps you take to clean your data.
- Organize your data according to tidy data principles.
- Record metadata in a separate plain text file.

### Formatting problems

- Avoid using multiple tables within one spreadsheet.
- Avoid spreading data across multiple tabs (but do use a new tab to record data cleaning or manipulations).
- Record zeros as zeros.
- Use an appropriate null value to record missing data.
- Don't use formatting to convey information or to make your spreadsheet look pretty.
- Place comments in a separate column.
- Record units in column headers.
- Include only one piece of information in a cell.
- Avoid spaces, numbers and special characters in column headers.
- Avoid special characters in your data.

### Dates as data

- Use extreme caution when working with date data.
- Splitting dates into their component values can make them easier to handle.

### Quality assurance

- Always copy your original spreadsheet file and work with a copy so you don't affect the raw data.
- Use data validation to prevent accidentally entering invalid data.

### Exporting data

- Data stored in common spreadsheet formats will often not be read correctly into data analysis software, introducing errors into your data.
- Exporting data from spreadsheets to formats like CSV or TSV puts it in a format that can be used consistently by most programs.

**Digi SYSKA session 1:**  
**Get your sheet together**

# Glossary

---

**cleaned data**

data that has been manipulated post-collection to remove errors or inaccuracies, introduce desired formatting changes, or otherwise prepare the data for analysis

**conditional formatting**

formatting that is applied to a specific cell or range of cells depending on a set of criteria

**CSV (comma separated values) format**

a plain text file format in which values are separated by commas

**factor**

a variable that takes on a limited number of possible values (i.e. categorical data)

**metadata**

data which describes other data

**null value**

a value used to record observations missing from a dataset

**observation**

a single measurement or record of the object being recorded (e.g. the weight of a particular mouse)

**plain text**

unformatted text

**quality assurance**

any process which checks data for validity during entry

**quality control**

any process which removes problematic data from a dataset

**raw data**

data that has not been manipulated and represents actual recorded values

**rich text**

formatted text (e.g. text that appears bolded, colored or italicized)

**string**

a collection of characters (e.g. "thisisastring")

**TSV (tab separated values) format**

a plain text file format in which values are separated by tabs

**variable**

a category of data being collected on the object being recorded (e.g. a mouse's weight)