# IMPORTING DATA INTO R

| File Type | Library Required | Command | Description |
|---|---|---|---|
| **Delimited File** (`.txt`) | Built-in (no library) | `read.delim("mydata.txt")` | Reads **tab-delimited text files**. By default assumes tab `\t` separator and header row. |
| **JSON** (`.json`) | `rjson` | `fromJSON(file = "mydata.json")` | Imports JSON files. `rjson` must be loaded first. |
| **HTML** (`.html`) | `XML` | `htmlTreeParse("path_to_file/myfile.html")` | Parses an HTML file into an R object (tree structure). Requires full path if not in working directory. |
| **Excel** (`.xls/.xlsx`) | `readxl` | `read_excel("mydata.xlsx")` | Imports data from Excel files. Requires `gdata` package. |
| **Minitab** (`.mtp`) | `foreign` | `read.mtp("mydata.mtp")` | Reads Minitab files (`.mtp`). Requires `foreign` package. |
| **Table/Text File** (`.txt`) | Built-in (no library) | `read.table("mydata.txt")` | Generic function for reading text files with **any delimiter** (default = whitespace). |
| **CSV** (`.csv`) | Built-in (no library) | `read.csv("mydata.csv", sep=",")` | Reads CSV files. Default separator = comma `,`. |

# EXPORTING DATA INTO R

| File Type | Library Required | Command | Description |
|---|---|---|---|
| **Table/Text File** (`.txt`) | Built-in (no library) | `write.table(mydata, "c:/mydata.txt", sep="\t")` | Exports data to a **text file**. Separator can be customized (default = space). In this example, values are separated by **tab** (`\t`). |
| **Excel** (`.xlsx`) | `writexl` | `write_xlsx(mydata, "c:/mydata.xlsx")` | Exports data to an **Excel file**. Requires `writexl` package. |
| **CSV** (`.csv`) | Built-in (no library) | `write.csv(mydata, file="c:/mydata.csv")` | Exports data to a **CSV file**. By default uses **comma** as separator. |