Files and the Filesystem

File Paths

```
/Users/christina/Documents/my_project/data.csv
/home/christina/my_project/data.csv
C:\Users\christina\Documents\my_project\data.csv
```

are examples of _____

```
../my_project/data/data.csv
data.csv
data/data.csv
```

are examples of _____

The working directory is _____

_____

Special Patterns

In file paths,

`..` means _____

`~` means _____

Working with Files

To retrieve information from a file, _____ from it. To put information into a file, _____ to it.

CSV (comma separated values) files are one type of plain text file. Plain text files have no _____ such as bold text, colors, or fonts.

R and Python expect that when data is stored in CSV (or tab-delimited) files, each observation is a _____ and each variable is a _____. Rows and columns may or may not have names. Data is stored in a rectangle: each row has the same number of columns, and each column has the same number of rows.