

# Machine Learning - 1100-MLOENG (Ćwiczenia informatyczne Z-23/24)

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## read.csv() function

### Working Directory in R

If you want to read files from a specific location or write files to a specific location you will need **to set working directory in R**. [RStudio](#)

**In RStudio the folder of the project is the working directory.**

```
getwd()
```

### The read.csv() function

Users often save their spreadsheets in [comma-separated values](#) files (CSV) and then use R's built in functionality to read and manipulate the data.

The read.csv() function reads the data in as a data frame, and assign the data frame to a variable (using <-) so that it is stored in R's memory.

- if you have a .txt or a tab-delimited text file, you can import it with the **read.table()** function.
- if your separates the values with a , or ;, you usually are working with a .csv file. You can use the **read.csv()** function.

- the **read.csv()** function is almost identical to the read.table() function, with the main difference that they have the header and fill arguments set as TRUE by default.

The file you want to load must be placed in the working directory.

```
t<-read.csv("titanic.csv") #from working directory
ds <- read.csv("http://rattle.togaware.com/weather.csv") #from the web
t2<-read.csv("http://imul.math.uni.lodz.pl/~bartkiew/ml/data/titanic.csv") #from the server
```

Let's explore the structure of sets.

```
summary(t)
summary(ds)
summary(t2)
```

The titanic data frames describe the survival status of individual passengers on the Titanic. The titanic data frame does not contain information from the crew, but it does contain actual ages of half of the passengers. The principal source for data about Titanic passengers is the Encyclopedia Titanica.

- Survived: Survived (1) or died (0)
- Pclass: Passenger's class
- Name: Passenger's name
- Sex: Passenger's sex
- Age: Passenger's age
- SibSp: Number of siblings/spouses aboard
- Parch: Number of parents/children aboard
- Ticket: Ticket number
- Fare: Fare
- Cabin: Cabin
- Embarked: Port of embarkation



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#### Accessibility settings

##### Przetwarzanie danych osobowych

Platformą administruje Komisja ds. Doskonalenia Dydaktyki wraz z Centrum Informatyki Uniwersytetu Łódzkiego [Więcej](#)

##### Informacje na temat logowania

Na platformie jest wykorzystywana metoda logowania za pośrednictwem [Centralnego Systemu Logowania](#).

Studentów i pracowników Uniwersytetu Łódzkiego obowiązuje

##### [Deklaracja dostępności](#)

nazwa użytkownika i hasło  
wykorzystywane podczas logowania  
się do systemu USOSweb.