

Merging and Importing Data

Spoken Tutorial Project

<http://spoken-tutorial.org>

National Mission on Education through ICT

<http://sakshat.ac.in>

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22 December 2018



Learning Objectives

We will learn how to:



Learning Objectives

We will learn how to:

- ▶ **Use built-in functions for exploring a data frame**



Learning Objectives

We will learn how to:

- ▶ **Use built-in functions for exploring a data frame**
- ▶ **Merge two data frames**



Learning Objectives

We will learn how to:

- ▶ **Use built-in functions for exploring a data frame**
- ▶ **Merge two data frames**
- ▶ **Import data in different formats in R**



Pre-requisites



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- ▶ **Data frames in R**



Pre-requisites

- ▶ Data frames in R
- ▶ R script in RStudio



Pre-requisites

- ▶ **Data frames in R**
- ▶ **R script in RStudio**
- ▶ **How to set working directory in RStudio**



Pre-requisites

- ▶ Data frames in R
- ▶ R script in RStudio
- ▶ How to set working directory in RStudio

Please locate the relevant tutorials on <https://spoken-tutorial.org/>



System Specifications



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- ▶ **Ubuntu Linux OS v 16.04**



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- ▶ **R v 3.4.4**



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- ▶ **RStudio v 1.1.456**



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- ▶ **R v 3.4.4**
- ▶ **RStudio v 1.1.456**

R version 3.2.0 or higher



Download files

We will use:



Download files

We will use:

- ▶ **Five data frames in different formats and**



Download files

We will use:

- ▶ Five data frames in different formats and
- ▶ A script file **myDataSet.R**



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We will use:

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- ▶ A script file **myDataSet.R**

Download these files from the **Code files** link of this tutorial



Merging Data Frames

Merging data frames has advantages like:



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Merging data frames has advantages like:

- ▶ More available



Merging Data Frames

Merging data frames has advantages like:

- ▶ More available
- ▶ Improving data quality



Merging Data Frames

Merging data frames has advantages like:

- ▶ More available
- ▶ Improving data quality
- ▶ Reducing complexity



Summary

We have learnt how to:

- ▶ Use built-in functions for exploring a data frame
- ▶ Merge two data frames
- ▶ Import data in different formats in R



Assignment

1. Using built-in dataset `iris`, implement all the functions we have learnt in this tutorial



About the Spoken Tutorial Project

- ▶ Watch the video available at http://spoken-tutorial.org/What_is_a_Spoken_Tutorial
- ▶ It summarises the Spoken Tutorial project



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- ▶ Gives certificates to those who pass an online test
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- ▶ Explain your question briefly
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<http://forums.spoken-tutorial.org/>



Forum to answer questions

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- ▶ Please visit the FOSSEE Forum
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Acknowledgements

- ▶ Spoken Tutorial Project is a part of the Talk to a Teacher project
- ▶ It is supported by the National Mission on Education through ICT, MHRD, Government of India
- ▶ More information on this Mission is available at:

<http://spoken-tutorial.org/NMEICT-Intro>



Thank You

- ▶ **The script for this tutorial was contributed by Shaik Sameer (FOSSEE Fellow 2018)**
- ▶ **The video has been created by Sudhakar Kumar, IIT Bombay**

