

Introduction to R*

Lecture 4: Heterogeneous vectors (lists & data frames)

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Contents

1	R Lists	2
1.1	Examples	2
2	R Dataframes	3
2.1	Examples	3

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A **heterogeneous** vector (also known as generic vector) is a data structure that may contain **more than one** atomic data type.

There are two kinds¹ of heterogeneous data structures available in **R**:

- lists
- data frames

1 R Lists

1.1 Examples

¹**R** has a third data structure i.e. pairlist. This topic will not be discussed in this section. People interested in this subject, should have a look at [R-internals](#).

2 R Dataframes

- categorical variables i.e. factors
- data frame and tibble

2.1 Examples