

Lesson Goal

• Learn to create lists in R.

Create Lists in R

- A **list** is a data structure that allows you to store different data types, or even store other data structures.
- The basic data structures are:
 - Vectors
 - Lists
 - Matrices
 - Arrays
 - Data Frames

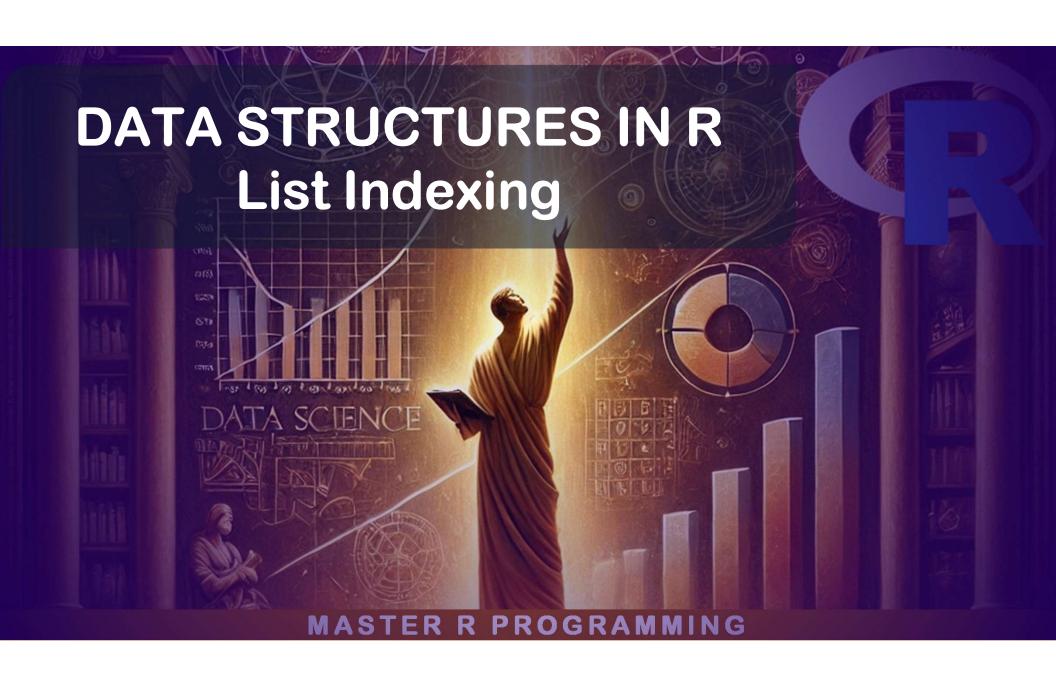
Create Lists in R

• Create a list using:



Create Lists in R

```
list(firstList, secondList, ...)
 [[1]]
 [1] firstList
 [[2]]
 [1] secondList
 [[3]]
 [1] ...
```



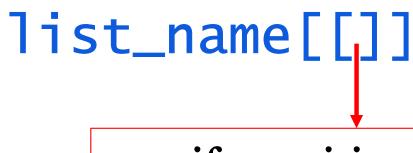
Lesson Goal

• Learn to extract list items and elements in R.

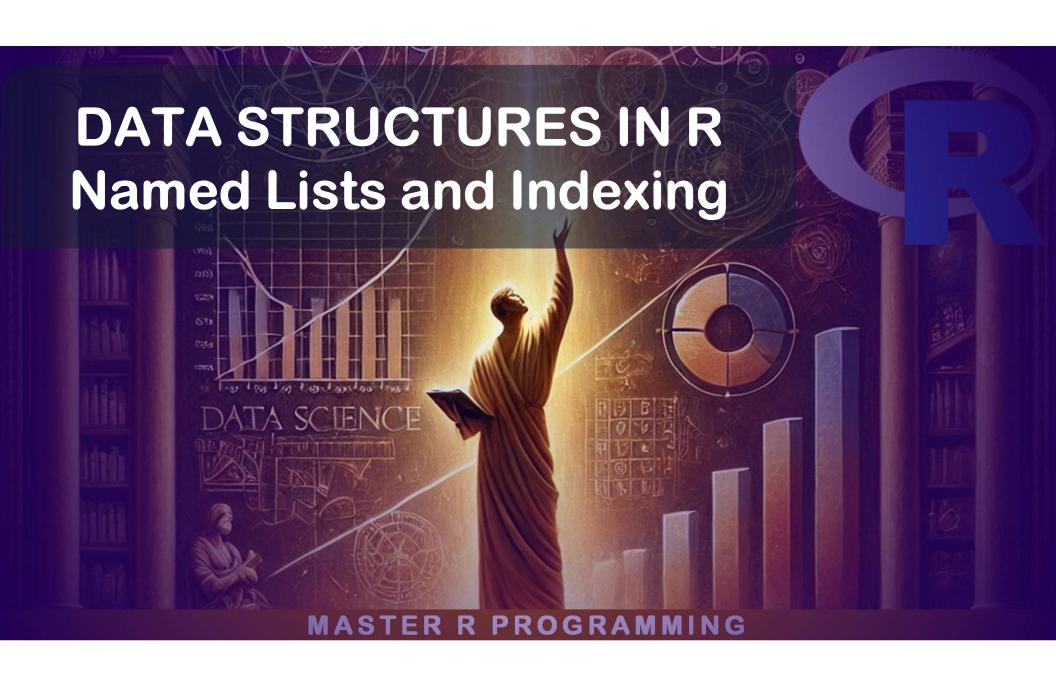
List Indexing in R

• Extract elements from list using double square brackets

```
`[[]]`:
```



specify position of list item to extract



Lesson Goal

• Learn to assign names to list items in R and perform indexing using these names.

Named Lists and Indexing in R

• Create a named list like:

```
list(
    name_1 = c(),
    name_2 = c(),
    :
)
```