Packages in R



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R Package

• A Package is a collection of R functions with comprehensive documents.



- A core set of packages is included with the installation of R. Additional packages are required for specific requirements.
- These packages can be downloaded from various repositories like CRAN, or from bioconductor, GitHub, R Forge and many more.
- Packages extend the functionality of R by enabling additional visual capabilities, statistical methods, and discipline-specific functions, just to name a few.

Installing a Package from CRAN?

To install a package



Type the following command in R console:

```
install.packages("pkg")
```

- pkg is the name of package whose current version should be downloaded from the repositories.
- For example :

```
install.packages("dplyr")
```

How to Use a Package?

To use a package



Invoke the following command to load the package into

the ongoing session: library(<pkg>)

Example:

library(dplyr)

Some useful Commands

• Removing Packages:

```
remove.packages("pkg")
```

Removes a specific package

• Updating Packages:

```
update.packages()
```

Updates all installed packages

• Installed Packages:

```
installed.packages()
```

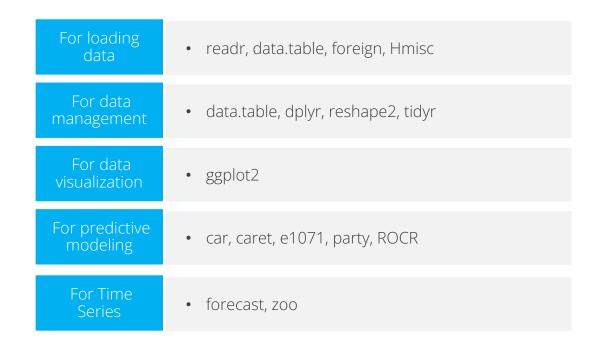
Returns a list of all installed packages

• Finding Available Packages:

```
available.packages()
```

Returns a list of all available packages

Some Useful R Packages



Quick Recap

In this session, we learnt the concept of packages and how to make use of it. Here is a quick recap:

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