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# R

R is a programming language and free software environment for statistical computing and graphics supported by the R Foundation for Statistical Computing

R ( <i>programminglanguage</i> )	
Full Name	Foundation for Statistical Computing
Short Name	R
Description	Free software environment for statistical computing and graphics supported
Company	R Foundation
Web	No
Mobile	No
Enterprise	Yes
Embedded	No

What is R?

R is a programming language and software environment used for statistical computing and graphics. It is open source and free to use, and is widely used in academia, government, and industry.

What are some advantages of using R?

Some advantages of using R include its flexibility, powerful statistical and graphical capabilities, and large and active community of developers. It also has a large number of packages available for a wide range of tasks, and is highly customizable.

What is the difference between R and other statistical software such as SAS and SPSS?

R is open source and free to use, while SAS and SPSS are proprietary software that require a license. R also has a larger and more active community of developers, and is highly customizable. However, SAS and SPSS may have better performance and stability in certain situations.

What are packages in R?

Packages in R are collections of functions, data, and documentation that extend the capabilities of the base R system. They are typically created by developers and made available for others to use.

What is tidyverse in R?

Tidyverse is a collection of R packages designed for data science and data visualization. It includes

packages such as `ggplot2` for data visualization, `dplyr` for data manipulation, and `tidyr` for data tidying.

## What is a data frame in R?

A data frame in R is a two-dimensional table-like data structure, with rows representing observations and columns representing variables. It is one of the most commonly used data structures in R, and is often used for data analysis and modeling.

## What is a function in R?

A function in R is a block of code that performs a specific task and can be called from other parts of a program. Functions in R can have input parameters and return values, and are often used for tasks such as data manipulation, modeling, and visualization.

Snippet from [Wikipedia: R \(programming language\)](#)

**R** is a programming language for statistical computing and data visualization. It has been adopted in the fields of data mining, bioinformatics, and data analysis.

The core *R* language is augmented by a large number of extension packages, containing reusable code, documentation, and sample data.

*R* software is open-source and free software. It is licensed by the GNU Project and available under the GNU General Public License. It is written primarily in C, Fortran, and R itself. Precompiled executables are provided for various operating systems.

As an interpreted language, *R* has a native command line interface. Moreover, multiple third-party graphical user interfaces are available, such as RStudio—an integrated development environment—and Jupyter—a notebook interface.

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## Hello World

```
print('Hello, world!')
```

Source: [Wikibooks](#)

See also: [Programming Languages](#)

[programminglanguage](#)

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