





## R : Programming Language

R is a widely used open-source programming language in the fields of statistical research and data analysis. The development of this language took place in 1992, led by 2R - Ross Ihaka and Ross Gentleman.

### **Open-Source Means:**

Open-source means accessible to all users; any user can use, distribute, and modify it. Open-source protocols are applicable that allow users to use the software or programming language freely. The R-programming language software is released under the terms of the GNU (General Public License). The Open-source platform facilitates a collaborative environment where likeminded individuals can contribute to improving programming software.

## Compatibility

R is compatible with all operating systems viz. WINDOWS, MAC-OS, LINUX, UNIX.

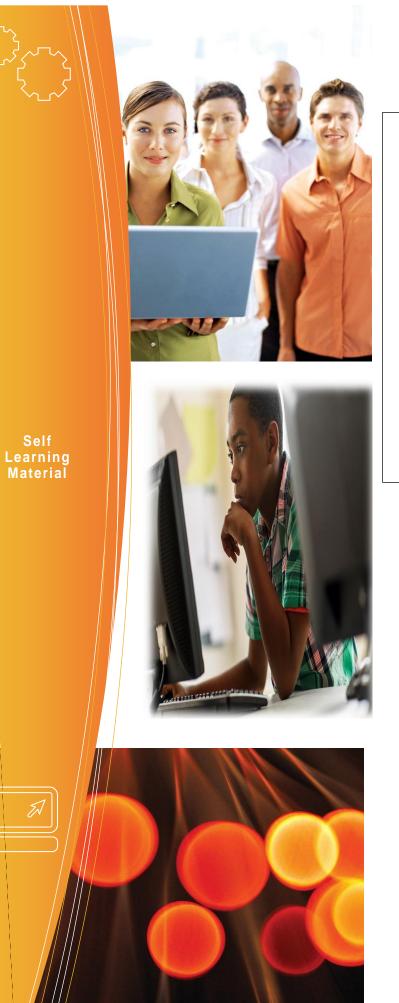


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Self Learning Material



# **Key Aspects**

- use of charts and graphs;
- Seamless incorporation of various programming languages, such as C++; \_
- The computing method for large data sets is time-consuming, resulting in poor performance;
- interface alternatives;

# **Real Time Applications : There are multiple applications of the R**



# Install R Programming Language

You can install in WINDOWS / MAC / LINUX	Go to CRAN to download R programming Language		Link : <u>https://cran.r-project.org</u> <u>The Comprehensive R Archive</u> <u>Network (r-project.org)</u>
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Download and Install R Precompiled binary distributions of the base sy these versions of R: • <u>Download R for Linux (Debian, Fedora)</u> • <u>Download R for Mindows</u> R is part of many Linux distributions, you show	Redhat, Ubuntu)		
above. Source Code for all Platforms Windows and Mac users most likely want to do sources have to be compiled before you can use • The latest release (2023-10-31, Eye Hole • Sources of <u>R</u> alpha and beta releases (dai • Daily snapshots of current patched and d fixes before filing corresponding feature • Source code of older versions of <u>R</u> is available	e them. If you do not kr es) <u>R-4 3 2 tar gz</u> , read y ily snapshots, created or evelopment versions ar requests or bug reports	ow what this <u>what's new</u> in t aly in time per e <u>available he</u>	means, you probably do not want to do the latest version. riods before a planned release).
<ul> <li>Contributed extension packages</li> <li>Questions About R</li> <li>If you have questions about R like how to answers to frequently asked questions be</li> </ul>			or what the license terms are, please rea
Supporting CRAN	otional, and financial s	upport by the	R community.







