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RStudio

RStudio is a free and open-source integrated development environment (IDE) for R, a programming language for statistical computing and graphics. RStudio was founded by JJ Allaire,[5] creator of the programming language ColdFusion. Hadley Wickham is the Chief Scientist at RStudio.[6]

RStudio is available in two editions: RStudio Desktop, where the program is run locally as a regular desktop application; and RStudio Server, which allows accessing RStudio using a web browser while it is running on a remote Linux server. Prepackaged distributions of RStudio Desktop are available for Windows, macOS, and Linux.

RStudio is available in open source and commercial editions and runs on the desktop (Windows, macOS, and Linux) or in a browser connected to RStudio Server or RStudio Server Pro (Debian, Ubuntu, Red Hat Linux, CentOS, openSUSE and SLES).[7]

RStudio is partly written in the C++ programming language and uses the Qt framework for its graphical user interface.[8] The bigger percentage of the code is written in Java, JavaScript is also amongst the languages used.[9]

Work on RStudio started around December 2010,[10] and the first public beta version (v0.92) was officially announced in February 2011.[1] Version 1.0 was released on 1 November 2016.[11] Version 1.1 was released on 9 October 2017.[12]

In April 2018 it was announced RStudio will be providing operational and infrastructure support for Ursa Labs. Ursa Labs will focus on building a new data science runtime powered by Apache Arrow.[13]

RStudio

RStudio on Ubuntu 12.10

Developer(s)	RStudio, Inc.
Initial release	28 February 2011[1]
Stable release	1.1.456 / 19 July 2018[2]
Repository	https://github.com/rstudio/rstudio
Written in	Java, C++, JavaScript[3]
Operating system	Windows NT, macOS, Ubuntu, Fedora, Red Hat Linux, openSUSE
Platform	IA-32, x86-64; Qt
License	Affero General Public License v3[4]
Website	www.rstudio.com

Contents

Packages

RStudio and its team have contributed to many R packages.[14] These include:

- Tidyverse – R packages for data science, including ggplot2, dplyr, tidyr, and purrr
- Shiny – An interactive web technology
- RMarkdown – Insert R code into markdown documents
- knitr – Dynamic reports combining R, TeX, Markdown & HTML
- packrat – Package dependency tool
- devtools – Package development tool

Addins

RStudio provides a mechanism for executing R functions interactively from within the IDE through the **Addins** menu[15]. This enables packages to include Graphical User Interfaces (GUIs) for increased accessibility. Popular packages that use **Addins** based GUIs include:

- bookdown - a knitr extension to create books
- colourpicker - a graphical tool to pick colours for plots
- datasets.load - a graphical tool to search and load datasets
- googleAuthR - Authenticate with Google APIs

See also

- R interfaces
- Comparison of integrated development environments

References

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External links

- Official website

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