

## A.1 VERSIONS RELEASED IN 2019 (05)

## 5.4.1.1 (to be released)

- We are looking for the maximum freedom and efficiency to interact with the R interpreter. ~~In this sense~~ Thus, improvements have been made to the Rterm IO interface, and some of the restrictions on editing inside of this interface (mainly related to the last line or the prompt) have been removed.
- From now on, to send any line (or just one small selection) to the R interpreter, you must press the **CTRL + ENTER** shortcut keys (not user configurable). ~~It is not recommended to~~ Sending selection of more than one line of code in this way is not recommended.
- The R history can be viewed (and searched) in a new synEdit completion window. The shortcut (not user configurable) is **CTRL + ALT + SPACE**.
- The R highlighter was improved, has new objects and, from now on, will be ~~it~~ is case dependent, ~~that~~ it is, it will highlighter, for example, **LETTERS**, **letters**, **CO2**, **co2**, ... in the same way.
- Some parts of the Object Pascal **pipe** were rewritten.
- From this version, the instructions stored in R history are only those typed in and submitted directly into the Rterm IO interface.
- The highlighter identifier Note was renamed to Note\_0. It makes s more sense since ~~it were created~~ Note\_1 and Note\_2 were created in previous version.

## 5.3.4.1 (apr/22/2019)

- Two new identifiers have been added to highlighters **R** and **Text**: Note\_1 and Note\_2. They are useful ~~to be used~~ as differentiated marks (now in three levels) in scripts and texts.

## 5.3.3.1 (fev/25/2019)

- Bug(s) fixed:
  - A bug associated ~~with~~ the procedure Help/Check for update and the prior 5.3.2.1 (fev/12/2019) portable version was fixed.

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## 5.3.2.1 (fev/12/2019)

- The recognition of complex R object names for print, plot, names structure, edit, fix, help, example and open example were improved. For example, ~~for~~ all cases:
  - iris
  - iris[1]
  - iris[c(1, 2)]
  - iris3(1, 1, 3)
  - iris\$Sepal.Length
  - iris['Sepal.Length']
  - iris[["Sepal.Length"]] that it will be correctly recognized.
- The Replace procedure was improved. ~~From now Hereafter,~~ it will remember, for all files, the same word list used ~~to~~for replacement.
- The Tinn-R website was updated, and the new URL is: <https://nbcgib.uesc.br/tinnr/en/>.

#### 5.3.1.1 (jan/06/2019)

- The status bar was redesigned.
- The option R send: the line haves a new feature that allows the main editor to send sequential instructions while the interpreter returns the signal +(plus) after each incomplete instruction. This option can be fast and easily switched in the status bar.
- A new option to send instructions to R interpreter is being implemented: R send: smart. The goal is to simplify it tofor beginner users to send complete instruction blocks when the cursor is located in a complex context: **out of the first line of functions, instructions with several contiguous lines and similar situations**. The work is advancedwell underway, but not yet fully done. Because of that, this feature is disabled. If the user try to use/enable it, he/she will getreceive the message: This feature is still in development.
- The interface Hotkeys (operational system) was ~~ere~~simplified and improved. Additionally, the ~~amount~~number of customizable user actions ~~was~~ increased to 20. On demand, this number can be easily increased. Due to theise changes, the previous hotkeys will be lost, and ~~it is necessary to~~ recreatinge them from the new GUI is necessary.
- Excepting the source files of Project Description (Tinn\_R.dpr and Tinn-R\_portable.dpr), all source code files were unified. Therefore, from now on, it became easier to compile and distribute the setup ande portable\_Tinn-

R\_X.X.X.X\_setup.exe and

Tinn-R\_X.X.X.X\_portable.zip versions, respectively. The custom support in Portable\_Apps standards ~~were~~as completely removed.

- ~~From~~ This version ~~it is possible to~~allows using some special characters (for example: **.aa**, **-bb**, **\_cc**, **dd**, **?ee** **!ff** and **@gg**) as trigger to data completion. All triggers of the new HTML group begin with '**<**' character. It will give more flexibility to create completion to other languages.
- The mechanism of completion was enhanced a bit. From now on, it ~~will be~~is more user-friendly ~~related to~~garding the indentation of the text in all supported languages.
- Corrections were made in the pop-up menu interfaces Rterm\_IO and LOG.
- The option to donate to the project has changed. ~~Hereafter, From now on~~ it will be a bank account in the name of the project coordinator. **Please, do not use the PayPal account anymore.**

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A.2. V 2018 (06)

## A.2 VERSIONS RELEASED IN 2018 (06)

## 5.2.2.0 (oct/04/2018)

- Parts of the source code were enhanced.
- Some windows and dialogs were reworked.
- The recognition of complex R object names for search and search in files were improved.
- Some keys from INI file were renamed to be more reliable:
  - [Roptions]→ [R Options]
  - [Options TextDiff]→ [Diff Options]
  - [PandocHistory]→ [Pandoc History]
  - [PandocHistoryFrom]→ [Pandoc History From]
  - [PandocHistoryTo]→ [Pandoc History To]
  - [SearchTextHistory]→ [Search Text History]
  - [SearchDirHistory]→ [Search Dir History]
  - [SearchFileMaskHistory]→ [Search File Mask History]
  - [ExplorerFavorites]→ [Explorer Favorites]
  - [FileMRU]→ [File MRU]
  - [ProjectMRU]→ [Project MRU]

Therefore, some user preferences can be lost (when applicable, it will use the default values). Sorry for the inconvenience.

## 5.2.1.0 (sep/28/2018)

- The main menu Web/R(search) were reworked.

- The recognition of complex R object names for sending instructions were improved.

#### 5.1.6.0 (sep/26/2018)

- The Application options interface ~~were~~as reworked.

#### 5.1.5.0 (sep/20/2018)

- Bug(s) fixed:
  - A bug from the versions 5.1.3.0 and 5.1.4.0 (sep/20/2018) related to the demo project was fixed.

#### 5.1.4.0 (sep/20/2018)

- Bug(s) fixed:
  - A bug from ~~the~~the version 5.1.3.0 (sep/20/2018) related to R scripts utils/infor.R and install.R was fixed.

#### 5.1.3.0 (sep/20/2018)

- Bug(s) fixed:
  - A bug related to sending instructions when R\_gui.exe was started out of Tinn-R was fixed. Thanks to Allan Stewart-Oaten for pointing it out.
- A new button was added to the Tools/R/Card interface to open ~~in the editor~~in the editor an example of the selected item in the editor.
- New resources were added to let Tinn-R access R remotely, via PuTTY. The way if working is the same as using R\_gui.exe locally, but there are a few limitations.
- The interface Options/Application/R were reworked, and new options were added.
- The searching algorithm from the installers of R in the System Registry were remade. The problems issued by the non-standardization after the installation of Microsoft R (MRAN), which were ~~causing trouble~~in hindering the correct identification of the installed versions were reworked.

### A.3 VERSIONS RELEASED IN 2016 (01)

#### 5.1.2.0 (oct/15/2016)

- Bug(s) fixed:
  - Two major bugs introduced in the pre-release version 4.2.6.0 have been fixed.
  - A bug related to Help, Example and Open example when all files were closed was fixed.
  - A bug related to Rterm interface (IO) and the package debug was fixed. Thanks to Ivan B. Allaman for pointing it out.
  - A bug related to the custom color storage was fixed.
  - A bug related to the Options/Syntax (highlighter)/Default (to new files) was fixed.
  - A bug related to the Options/Syntax (highlighter) was fixed. Thanks to Manuela Huso for pointing it out.
  - Some issues about the completion followed by F3 to find the next occurrence of | were corrected.
  - Issues about the installation of TinnRcom package (and its dependencies) were corrected.
- A lot of PRE-RELEASE versions of the project have been released, not restricted to testers. Thanks for testing and making suggestions.
- The installation of TinnRcom package (and its dependencies) was improved. From now on, the sources (.tar.gz) and the binaries (.zip) of the packages formatR, svMisc, svSocket, and TinnRcom will be released within the setup of Tinn-R setup. After the installation, TinnRcom package will be placed at packages folder. Thus, So all of them will be installed from the local .zip.
- The package TinnRcom package was upgraded to the version 1.0.20.
- The menu options has a new option: R echo (on/off). This grants the user the choice to echo (or not) some options of send file, selection, clipboard, block marked, contiguous lines, a line to end of page. A related button was added to R task bar. This made these options simpler and user-friendly these options. The default shortcut to toggle this option is
  - ALT + E
- The procedure to open a remote file from an URL was improved and also covers https protocol.
- If the user's choice in Options/Application/R/Patch (R) is No to use the latest


installed version (always) option, at startup, TinnR will search in all letters of the system drives for the fully informed path of R. ~~It~~This is very useful in the portable flavours due to letters changes in different computers.

- The visibility of all Page Control and Tab Sheets caption ~~were~~as improved.
- R will always start with two options:
  - `options(pkgType='binary')`
  - `options(install.packages.check.source='no')`
- If the user do not have a personal library to manage the packages, from this version on, Tinn-R will create a folder named x.y, related to major and minor R version in the C:/Users/User/Documents/R/winlibrary/. This library will be used as default to package manager. The user can change the default library at Options/Application/R/Packages (R) in the Library trees (.libPaths()).
- The default files Shortcuts.xml and Mirrors.xml were updated.
- The default shortcuts related to focus on Rterm interface (Editor, IO, and LOG) were changed due to conflict with Windows 10.
- When using Rterm (except ~~with~~for the Send File option), all ~~other~~ options related ~~with~~to more than one line will be added ~~to~~do the R history.
- The source code related to identification of library trees .libPaths() was improved.
- The R explorer interface related to ~~the~~ identification of environments from objects was improved.
- The ~~resources~~ related to update mirrors in run time were improved.
- The resources related to knitr and Sweave were improved, and new options are in Options/Application/R/Packages/Knitr.
- ~~The argument quiet=TRUE will be added to all knit procedures~~~~it will be added the argument quiet=TRUE~~. So, if you want more control, or ~~to~~for big documents, ~~it is suggested~~ (for a while) ~~the~~ use ~~of~~ the knit with Rgui.exe instead of Rterm.exe ~~is suggested~~.
- The menu Insert has a new option: R (assignment). This option makes flexible to insert <- and -> assignment. As it is associated ~~with~~to shortcuts, the user can customize both ~~assignments~~.

### A.3. V

2016 (01)

- The navigator of all database was replaced.

- The IO prompt of the Rterm interface is more user-friendly. For this set Options/Application/Editor/Advanced/Scroll pas end of line option.
- ~~It was add~~ A new item was added ~~to in~~ the main menu: Tools/Processing/Viewer/Open current file (generic).
- The menu Web was heavily reworked and has new options.
- The windows Options/Application ~~received were~~ improvedments.
- A new resource allowing the user to open/learning/edit the example  script of any R object, from the editor, Rterm/IO, Rterm/LOG or window Tools/R/explorer was added.
- The tip and data completion were deeply improved. CTRL + SPACE is the single trigger for both, and the distinction is made in the context of the call. Additionally, this feature now find the object, the package and the pattern in complex ~~contexts~~ multiline contexts.
- The shortcuts CTRL + TAB and SHIFT + CTRL + TAB, not user configurable, can now be ~~also~~ used in all interfaces, Editor, Rterm and Help, to sequentially switch the pages.
- This version is fully compatible with Microsoft R Open - MRO.
- The folder utils was deeply restructured and ~~it was added~~ an instruction unlockBinding("last.warning", baseenv()) was added to the new file info.R to work around a small bug amongbetween svSocket and MRO. Thanks to Marc Laurencelle ~~to for~~ pointing it out.
- The identifier Note was brought back to the highlighter of R family, and, due to this utility, it was also added to Text highlighter. Thanks to Ari for pointing it out.
- Improvements related to identification of strings were made to the R family, All and Text highlighter ~~received improvements related to strings identification, so~~ The intention is that they do not identify the shortened forms (he's, you'd, you've, etc.) as string.
- New options related to Rterm: IO and LOG highlighters.
- The usability of Rterm interface is now more robust, stable and user-friendly.
- A ~~n~~ new resource Check for update was added to the main menu Help.
- The development team would like to publicly thank Marc Laurencelle for the contributions and suggestions to the Tinn-R project.



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- Tinn-R Team has two new members: Philiphe A. Kramer and Swami de P. Lima, welcome!

## A.4. V 2015 (05)

## A.4 VERSIONS RELEASED IN 2015 (05)

## 4.0.3.5 (jun/22/2015)

- Due to two portable versions (simple and compatible with Apps), ~~were~~ **made** some adjustments were made in the application source code and the project structure.

## 4.0.3.4 (jun/11/2015)

- Bug(s) fixed:
  - A bug related to Rterm interface (IO and LOG) and to the packages car and rms was fixed. The ~~origin of the bug is that~~ occurs because the pattern of messages on the pipe changes when both packages are loaded ~~they~~ change the pattern of messages on the pipe. Thanks to Frank for pointing it out.
  - A bug related to Update R mirrors and to the countries Germany, Spain and Sweden was fixed.
- The versions 4.0.3.1, 4.0.3.2 and 4.0.3.3 were restricted to testers: thanks for the tests and suggestions.
- From this version on, Tinn-R will be released in three flavours: TinnR, Tinn-R Portable and compatible with PortableApps platform.
- Some files of the folder utils were updated to meet the ~~with~~ Tinn-R Portable project needs. Therefore, the folder and paths of the R variable .trPaths were changed to TEMP environment variable.
- The Help menu was slightly changed.
- The TinnRcom package was updated to version 1.0.18.

## 4.0.2.1 (Apr/29/2015)

- Bug(s) fixed:
  - A bug related to the recent release (R 3.2.0) and to the installation of the necessary TinnRcom package ~~were~~ fixed. Thanks to Duncan Murdoch for the support.
  - The file Rinstall.R located at the folder utils, where TinnR is installed, was updated to suppress the download of two packages (Hmisc and R2Html), which are no longer necessary to the TinnRcom package.

- The TinnRcom package was updated to version 1.0.17.

#### 4.0.2.0 (Apr/22/2015)

- Features Added:

- Drag and drop from R explorer to Editor.
- An experimental Hex viewer ([ATBinHex](#)) was added to Tools/Results/Hex viewer. ~~There is~~ A bug is related to the UTF-8 BOM encoding file: the selection of (Char -Hex), only in the first line, is not correctly associating the character with its corresponding Hex. It has its own pop-up menu with many (and useful) options.
- New resources to autocompletion related to: ( [ { ' " were added. If there is a selection, the new feature will respect that.
- A new option was added to Options/Application/R/Rterm/Options (Rterm), enabling the user to choose if the set\_width will be sent automatically when the panel width or font size is changed.
- A new option was added: Project/Open demo. The objective is to show to~~the~~ novice user what is a project and it's utility.
- The main menu Options has three new options:

Auto completion ( [ { ' "CTRL + ALT + C

Enable Notication CTRL + ALT + N Update silently

CTRL + ALT + U

- Bug(s) fixed:

- A bug related to Sumatra (PDF viewer) and User guide (PDF), location of topics, was fixed. If you have it installed, please upgrade to 3.1.1 or higher ([SumatraPDF](#)).
- Rterm is now entirely updated after any~~some~~ changes in Options/Application or Options/Highlighters (settings).
- A bug related to line wrap has been fixed: thanks to Frank for pointing it out.
- A bug related to character recognition of Tools/Database/R/Mirrors was fixed.
- A bug related to Rterm/LOG text highlighter was fixed.
- A bug related to Page control files and hints of files were fixed.
- Some bugs were fixed and it is more user-friendly when the editor is in split mode.
- Some bugs ~~were fixed~~ related to Hide/Show resources of Tools panel were fixed.

- The pre-release versions 4.0.0.0 to 4.0.1.5 were restricted to testers: thanks for the tests and suggestions.
- Philippe Silva Farias began to work in the project as co-author.
- An experimental file notification resource has been added to the project. The options are at Options/Application/General.
- Prior backup (full or database) will no longer be compatible anymore from this version on.
- A set of new icons was created specially to the project: thanks to Philippe Silva Farias for the hard work.
- The visual identity of the project was changed: thanks to Carolina Sartório Faria for the work.
- Some improvements were made in the Options/Application and this interface has new options now.
- The usability of Rterm interface was improved.
- The URI highlighter has now a new identifier named Space.
- The default shortcut to alternate the focus amongbetween Editor, IO and LOG wereas changed.
- The automatic recognition of hardware architecture (32 or 64 bit) was improved.
- The project Jedi used in the Tinn-R project was updated to the latest version. Some bugs related to Tools and Rterm panels and Auto Hide option were corrected.
- The list of recognized words of R highlighter family related to plotting has been updated. Thanks to Berry Boessenkool for pointing it out.
- The order of the objects was changed in Tools/R/Explorer. It has now a more natural order and hierarchy.
- The available fonts family wereas restricted to True Type and FixedPitchOnly.
- It is now possible to open any URL from the Windows Open Dialog: File/Open.
- Tinn-R Editor- GUI for R Language and Environment is a project under GPL and distributed as freeware. Since creating and maintaining the project involve many costs, donations are welcomed!