# Package 'rstudioapi'

July 7, 2023

Title Safely Access the RStudio API
<b>Description</b> Access the RStudio API (if available) and provide informative error messages when it's not.
Version 0.15.0
Maintainer Kevin Ushey <kevin@rstudio.com></kevin@rstudio.com>
License MIT + file LICENSE
<pre>URL https://rstudio.github.io/rstudioapi/,</pre>
https://github.com/rstudio/rstudioapi
BugReports https://github.com/rstudio/rstudioapi/issues
RoxygenNote 7.2.3
Suggests testthat, knitr, rmarkdown, clipr, covr
VignetteBuilder knitr
Encoding UTF-8
NeedsCompilation no
Author Kevin Ushey [aut, cre],  JJ Allaire [aut],  Hadley Wickham [aut],  Gary Ritchie [aut],  RStudio [cph]
Repository CRAN
<b>Date/Publication</b> 2023-07-07 19:10:02 UTC
R topics documented:
addTheme       3         applyTheme       4         askForPassword       5         askForSecret       5         bugReport       6         build-tools       6

callFun	
chunk-callbacks	. 8
convertTheme	. 9
createProjectTemplate	. 10
dictionaries	. 11
document_position	. 11
document_range	. 12
executeCommand	
file-dialogs	. 13
filesPaneNavigate	. 14
getActiveProject	. 15
getDelegatedAzureToken	. 15
getRStudioPackageDependencies	. 16
getThemeInfo	. 16
getThemes	. 17
getVersion	. 17
nasColorConsole	
nasFun	19
nighlightUi	19
sAvailable	21
sJob	21
obAdd	22
obAddOutput	23
obAddProgress	
obRemove	
obRunScript	
obSetProgress	
obSetState	
obSetStatus	
auncherAvailable	
auncherConfig	
auncherContainer	
auncherControlJob	
auncherGetInfo	
auncherGetJob	
auncherGetJobs	
auncherHostMount	
auncherNfsMount	
auncherPlacementConstraint	
auncherResourceLimit	
auncherSubmitJob	
auncherSubmitR	
navigateToFile	
persistent-values	
previewRd	
previewSql	
primary_selection	
projects	

addTheme 3

addTl	neme Add a Custom Editor Theme	
Index		70
	writeRStudioPreference	68
		68
		66
	•	<ul><li>65</li><li>65</li></ul>
		64
		64
		63
		63
		62
		61
	terminalList	61
	terminalKill	60
	terminalExitCode	<b>6</b> 0
	terminalExecute	<b>5</b> 9
	terminalCreate	58
		57
	·	56
		55
		55
	·	54
		52 53
		52 52
	r	51
		50
		50
		49
		48
		48
	rstudio-documents	45
	restartSession	45
	· ·	44
	<u>e</u>	43
		42
	readRStudioPreference	41
	readPreference	40

# Description

Adds a custom editor theme to RStudio and returns the name of the newly added theme.

4 applyTheme

#### Usage

```
addTheme(themePath, apply = FALSE, force = FALSE, globally = FALSE)
```

#### **Arguments**

themePath A full or relative path or URL to an rstheme or tmtheme to be added.

apply Whether to immediately apply the newly added theme. Setting this to TRUE has

the same impact as running { rstudioapi::addTheme(<themePath>); rstudioapi::applyTheme(<th

}.

Default: FALSE.

force Whether to force the operation and overwrite an existing file with the same

name.

Default: FALSE.

globally Whether to install this theme for the current user or all users. If set to TRUE this

will attempt to install the theme for all users, which may require administrator

privileges.

Default: FALSE.

#### Note

The addTheme function was introduced in RStudio 1.2.879.

applyTheme Apply an Editor Theme to RStudio

#### **Description**

Applies the specified editor theme to RStudio.

## Usage

applyTheme(name)

## **Arguments**

name The unique name of the theme to apply.

#### Note

The applyTheme function was introduced in RStudio 1.2.879.

askForPassword 5

askForPassword

Ask the user for a password interactively

## **Description**

Ask the user for a password interactively.

#### Usage

```
askForPassword(prompt = "Please enter your password")
```

## **Arguments**

prompt

The prompt to be shown to the user.

#### **Details**

RStudio also sets the global askpass option to the rstudioapi::askForPassword function so that it can be invoked in a front-end independent manner.

## Note

The askForPassword function was added in version 0.99.853 of RStudio.

## **Examples**

```
## Not run:
rstudioapi::askForPassword("Please enter your password")
## End(Not run)
```

askForSecret

Prompt user for secret

#### **Description**

Request a secret from the user. If the keyring package is installed, it will be used to cache requested secrets.

# Usage

```
askForSecret(
  name,
  message = paste(name, ":", sep = ""),
  title = paste(name, "Secret")
)
```

6 build-tools

#### **Arguments**

name The name of the secret.

message A character vector with the contents to display in the main dialog area.

title The title to display in the dialog box.

#### Note

The askForSecret function was added in version 1.1.419 of RStudio.

bugReport

File an RStudio Bug Report

## **Description**

A utility function to assist with the filing of an RStudio bug report. This function will pre-populate a template with information useful in understanding your reported bug.

## Usage

```
bugReport()
```

build-tools

**Build Tools** 

# Description

Check, install, and use build tools as required.

## Usage

```
buildToolsCheck()
buildToolsInstall(action)
buildToolsExec(expr)
```

## **Arguments**

action The action (as a string) being taken that will require installation of build tools.

expr An R expression (unquoted) to be executed with build tools available and on the

PATH.

callFun 7

# **Details**

These functions are intended to be used together – one should first check whether build tools are available, and when not, prompt for installation. For example:

```
compile_model <- function(...) {
  if (rstudioapi::isAvailable()) {
    if (!rstudioapi::buildToolsCheck())
      rstudioapi::buildToolsInstall("Model compilation")
    rstudioapi::buildToolsExec({
        # code requiring build tools here
    })
  }
}</pre>
```

The action parameter is used to communicate (with a prompt) the operation being performed that requires build tool installation. Setting it to NULL or the empty string will suppress that prompt.

#### Note

The buildToolsCheck(), buildToolsInstall(), and buildToolsExec() functions were added with version 1.2.962 of RStudio.

callFun

Call an RStudio API function

## **Description**

This function will return an error if RStudio is not running, or the function is not available. If you want to fall back to different behavior, use hasFun.

#### Usage

```
callFun(fname, ...)
```

## Arguments

fname name of the RStudio function to call.

. . . Other arguments passed on to the function

8 chunk-callbacks

## **Examples**

```
if (rstudioapi::isAvailable()) {
  rstudioapi::callFun("versionInfo")
}
```

chunk-callbacks

Register and Unregister a Chunk Callback

## **Description**

Register a callback function to be executed after a chunk within an R Markdown document is run.

#### Usage

```
registerChunkCallback(callback)
unregisterChunkCallback(id = NULL)
```

#### **Arguments**

callback A callback function. See **Chunk Callbacks** for more details.

id A unique identifier.

## Value

For registerChunkCallback(), a unique identifier. That identifier can be passed to unreigsterChunkCallback() to de-register a previously-registered callback.

# **Chunk Callbacks**

The callback argument should be a function accepting two parameters:

- chunkName: The chunk label,
- chunkCode: The code within the chunk.

The function should return an R list of HTML outputs, to be displayed after that chunk has been executed.

convertTheme 9

							-1			
$\sim$	$\cap$	n	1	Δ	r	tΙ	۱r	ı۵	m	Δ

Convert a tmTheme to an RStudio Theme

#### **Description**

Converts a tmTheme to an rstheme and optionally adds and applies it to RStudio and returns the name of the theme.

## Usage

```
convertTheme(
  themePath,
  add = TRUE,
  outputLocation = NULL,
  apply = FALSE,
  force = FALSE,
  globally = FALSE
)
```

## **Arguments**

themePath A full or relative path to the tmTheme file to be converted.

add Whether to add the newly converted theme to RStudio. Setting this to true will

have the same impact as running { rstudioapi::convertTheme(<themePath>,

outputLocation = <convertedThemePath>); rstudioapi::addTheme(<convertedThemePath>)

}.

Default: TRUE.

outputLocation A full or relative path where a copy of the converted theme will be saved. If this

value is NULL, no copy will be saved.

Default: NULL.

apply Whether to immediately apply the newly added theme. This paramater cannot be

rstudioapi::applyTheme(<themeName>) }.

Default: FALSE.

force Whether to force the operation and overwrite an existing file with the same

name.

Default: FALSE.

globally Whether to install this theme for the current user or all users. If set to TRUE this

will attempt to install the theme for all users, which may require administrator

privileges. Only applies when add is TRUE.

Default: FALSE.

#### Note

The convertTheme function was introduced in RStudio 1.2.879.

createProjectTemplate Create a Project Template

# Description

Create a project template. See https://rstudio.github.io/rstudio-extensions/rstudio\_project\_templates.html for more information.

# Usage

```
createProjectTemplate(
  package = ".",
  binding,
  title,
  subtitle = paste("Create a new", title),
  caption = paste("Create", title),
  icon = NULL,
  open_files = NULL,
  overwrite = FALSE,
  edit = TRUE
)
```

# Arguments

package	The path to an package sources.
binding	The skeleton function to associate with this project template. This is the name of the function that will be used to initialize the project.
title	The title to be shown within the <b>New Project</b> wizard.
subtitle	(optional) The subtitle to be shown within the <b>New Project</b> wizard.
caption	(optional) The caption to be shown on the landing page for this template.
icon	(optional) The path to an icon, on disk, to be used in the dialog. Must be an . png of size less than $64 \mathrm{KB}$ .
open_files	(optional) Files that should be opened by RStudio when the project is generated. Shell-style globs can be used to indicate when multiple files matching some pattern should be opened – for example, OpenFiles: R/*.R would indicate that RStudio should open all .R files within the R folder of the generated project.
overwrite	Boolean; overwrite a pre-existing template file if one exists?
edit	Boolean; open the file for editting after creation?

dictionaries 11

dictionaries

Interact with RStudio's Dictionaries

#### **Description**

Interact with the hunspell dictionaries used by RStudio for spell checking.

## Usage

```
dictionariesPath()
userDictionariesPath()
```

## **Details**

dictionariesPath() gives a path to the dictionaries installed and distributed with RStudio. userDictionariesPath() gives the path where users can provide their own custom hunspell dictionaries.

#### Note

The dictionariesPath() and userDictionariesPath() functions were introduced with RStudio 1.2.1202.

document\_position

Create a Document Position

# Description

Creates a document\_position, which can be used to indicate e.g. the row + column location of the cursor in a document.

#### Usage

```
document_position(row, column)
is.document_position(x)
as.document_position(x)
```

#### Arguments

row The row (using 1-based indexing).
column The column (using 1-based indexing).

x An object coercable to document\_position.

12 executeCommand

document\_range

Create a Range

## **Description**

A document\_range is a pair of document\_position objects, with each position indicating the start and end of the range, respectively.

#### Usage

```
document_range(start, end = NULL)
is.document_range(x)
as.document_range(x)
```

## **Arguments**

start A document\_position indicating the start of the range.

A document\_position indicating the end of the range.

x An object coercable to document\_range.

#### Value

An list with class document\_range and fields:

start: The start position. end: The end position.

executeCommand

Execute Command

## **Description**

Executes an arbitrary RStudio command.

# Usage

```
executeCommand(commandId, quiet = FALSE)
```

# Arguments

commandId The ID of the command to execute.

quiet Whether to show an error if the command does not exist.

file-dialogs 13

#### **Details**

Most menu commands and many buttons in RStudio can be invoked from the API using this method.

The quiet command governs the behavior of the function when the command does not exist. By default, an error is shown if you attempt to invoke a non-existent command. You should set this to TRUE when invoking a command that may not be available if you don't want your users to see an error.

The command is run asynchronously, so no status is returned.

See the RStudio Server Professional Administration Guide appendix for a list of supported command IDs.

#### Note

The executeCommand function was introduced in RStudio 1.2.1261.

#### See Also

registerCommandCallback to be notified of command executions.

file-dialogs

Select a file / folder

#### **Description**

Prompt the user for the path to a file or folder, using the system file dialogs with RStudio Desktop, and RStudio's own dialogs with RStudio Server.

#### Usage

```
selectFile(
  caption = "Select File",
  label = "Select",
  path = getActiveProject(),
  filter = "All Files (*)",
  existing = TRUE
)

selectDirectory(
  caption = "Select Directory",
  label = "Select",
  path = getActiveProject()
)
```

14 filesPaneNavigate

#### **Arguments**

caption The window title.

label The label to use for the 'Accept' / 'OK' button.

path The initial working directory, from which the file dialog should begin browsing.

Defaults to the current RStudio project directory.

filter A glob filter, to be used when attempting to open a file with a particular exten-

sion. For example, to scope the dialog to R files, one could use R Files (\*.R)

here.

existing Boolean; should the file dialog limit itself to existing files on the filesystem, or

allow the user to select the path to a new file?

#### **Details**

When the selected file resolves within the user's home directory, RStudio will return an aliased path – that is, prefixed with ~/.

#### Note

The selectFile and selectDirectory functions were added in version 1.1.287 of RStudio.

filesPaneNavigate Navigate to a Directory in the Files Pane

# Description

Navigate to a directory in the Files pane. The contents of that directory will be listed and shown in the Files pane.

#### Usage

filesPaneNavigate(path)

# Arguments

path The filesystem path to be shown.

getActiveProject 15

getActiveProject

Retrieve path to active RStudio project

## Description

Get the path to the active RStudio project (if any). If the path contains non-ASCII characters, it will be UTF-8 encoded.

# Usage

```
getActiveProject()
```

#### Value

The path to the current project, or NULL if no project is currently open.

#### Note

The getActiveProject function was added in version 0.99.854 of RStudio.

getDelegatedAzureToken

OAuth2 Tokens for Delegated Azure Resources

## **Description**

When Workbench is using Azure Active Directory for sign-in, this function can return an OAuth2 token for a service Workbench users have delegated access to. This requires configuring delegated permissions in Azure itself.

## Usage

```
getDelegatedAzureToken(resource)
```

#### **Arguments**

resource

The name of an Azure resource or service, normally a URL.

## **Examples**

```
## Not run:
getDelegatedAzureToken("https://storage.azure.com")
## End(Not run)
```

16 getThemeInfo

getRStudioPackageDependencies

Get RStudio Package Dependencies

# Description

Gets a list of the all the R packages that RStudio depends on in some way.

#### Usage

getRStudioPackageDependencies()

#### **Details**

The data frame of package dependencies contains the following columns:

name The name of the R package.

**version** The required minimum version of the R package.

**location** Where RStudio expects the package to be, cran for a CRAN-like repository or embedded for development packages embedded in RStudio itself.

source Whether the package should be installed from source.

#### Value

A data frame containing a row per R package.

#### Note

The getRStudioPackageDependencies function was introduced in RStudio 1.3.525.

getThemeInfo

Retrieve Themes

#### **Description**

Retrieves a list with information about the current color theme used by RStudio.

#### Usage

getThemeInfo()

getThemes 17

#### **Details**

A list is returned with the following elements:

editor The name of the current editor theme, such as Textmate.

global The name of the current global theme. One of Modern, Classic, or Sky.

dark TRUE if the editor theme is dark, FALSE otherwise.

**foreground** The current editor theme's default text foreground color, formatted as a CSS-compatible color string, such as rgb(1, 22, 39). Supported since RStudio 1.2.1214.

**background** The current editor theme's default text background color, formatted as a CSS-compatible color string. Supported since RStudio 1.2.1214.

getThemes

Get Theme List

## **Description**

Retrieves a list of the names of all the editor themes installed for RStudio.

#### Usage

getThemes()

#### Note

The getThemes function was introduced in RStudio 1.2.879.

getVersion

Return the current version of the RStudio API

#### **Description**

Return the current version of the RStudio API

## Usage

getVersion()

#### Value

A numeric\_version which you can compare to a string and get correct results.

18 hasColorConsole

## **Examples**

```
## Not run:
if (rstudioapi::getVersion() < "0.98.100") {
  message("Your version of RStudio is quite old")
}
## End(Not run)</pre>
```

hasColorConsole

Check if console supports ANSI color escapes.

# Description

Check if the RStudio console supports ANSI color escapes.

## Usage

```
hasColorConsole()
```

# Value

TRUE if ANSI color escapes are supported; FALSE otherwise.

## Note

The hasColorConsole function was added in version 1.1.216 of RStudio.

# **Examples**

```
## Not run:
if (rstudioapi::hasColorConsole()) {
  message("RStudio console supports ANSI color sequences.")
}
## End(Not run)
```

hasFun 19

hasFun

Exists/get for RStudio functions

## **Description**

These are specialized versions of get and exists that look in the rstudio package namespace. If RStudio is not running, hasFun will return FALSE.

#### Usage

```
hasFun(name, version_needed = NULL, ...)
findFun(name, version_needed = NULL, ...)
```

# **Arguments**

name of object to look for

version\_needed An optional version specification. If supplied, ensures that RStudio is at least that version. This is useful if function behavior has changed over time.

... other arguments passed on to exists and get

#### **Examples**

```
rstudioapi::hasFun("viewer")
```

highlightUi

Highlight UI Elements within the RStudio IDE

# Description

This function can be used to highlight UI elements within the RStudio IDE. UI elements can be selected using query selectors; most commonly, one should choose to highlight elements based on their IDs when available.

## Usage

```
highlightUi(queries)
```

#### **Arguments**

queries

A list of "query" objects. Each query should be a list with entries "query" and "parent". See **Queries** for more details.

20 highlightUi

#### **Details**

The tool at:

```
Help -> Diagnostics -> Show DOM Elements
```

can be useful for identifying the classes and IDs assigned to the different elements within RStudio.

## Queries

Elements are selected using the same queries as through the web querySelectorAll() API. See <a href="https://developer.mozilla.org/en-US/docs/Web/API/Document/querySelectorAll">https://developer.mozilla.org/en-US/docs/Web/API/Document/querySelectorAll</a> for more details.

For example, to highlight the Save icon within the Source pane, one might use:

```
rstudioapi::highlightUi("#rstudio_tb_savesourcedoc")
```

In some cases, multiple UI elements need to be highlighted – e.g. if you want to highlight both a menu button, and a menu item within the menu displayed after the button is pressed. We'll use the Environment Pane's Import Dataset button as an example. To highlight the From Text (readr) command, you might use:

```
rstudioapi::highlightUi( list(
list(query = "#rstudio_mb_import_dataset", parent = 0L), list(query =
"#rstudio_label_from_text_readr_command", parent = 1L) ) )
```

#### Note

The highlightUi function was introduced in RStudio 1.3.658.

## **Examples**

```
## Not run: rstudioapi::highlightUi("#rstudio_workbench_panel_git")

# clear current highlights
## Not run: rstudioapi::highlightUi("")

# highlight within an RMD
## Not run: rstudioapi::highlightUi(".rstudio_chunk_setup .rstudio_run_chunk")

# Optionally provide a callback adjacent to
# the queries that will be executed when the
# highlighted element is clicked on.
## Not run: rstudioapi::highlightUi(
    list(
        query="#rstudio_workbench_panel_git",
        callback="rstudioapi::highlightUi('')"
    )
)
```

isAvailable 21

```
## End(Not run)
```

isAvailable

Check if RStudio is running

## **Description**

Check if RStudio is running.

#### Usage

```
isAvailable(version_needed = NULL, child_ok = FALSE)
verifyAvailable(version_needed = NULL)
```

## **Arguments**

version\_needed An optional version specification. If supplied, ensures that RStudio is at least

that version.

child\_ok Boolean; check if the current R process is a child process of the main RStudio

session? This can be useful for e.g. RStudio Jobs, where you'd like to communicate back with the main R session from a child process through rstudioapi.

#### Value

is Available a boolean; verify Available an error message if RS tudio is not running

## **Examples**

```
rstudioapi::isAvailable()
## Not run: rstudioapi::verifyAvailable()
```

isJob

Detect RStudio Jobs

#### **Description**

Use this function to detect whether RStudio is running an R "job". These jobs are normally used for actions taken in the Jobs tab, as well as within the R build pane.

#### Usage

```
isJob()
```

jobAdd jobAdd

#### **Details**

This function is primarily intended to be used by package authors, who need to customize the behavior of their methods when run within an RStudio job.

## Value

Boolean; TRUE if this is an RStudio job.

jobAdd Add a Job

#### **Description**

Inform RStudio's Background Jobs pane that a job has been added.

## Usage

```
jobAdd(
  name,
  status = "",
  progressUnits = 0L,
  actions = NULL,
  running = FALSE,
  autoRemove = TRUE,
  show = TRUE
)
```

#### **Arguments**

name The background job's name.

status The initial status text for the job; optional.

progressUnits The integer number of units of work in the job; for example, 100L if the job's

progress is expressed in percentages. Use 0L if the number of units of work is

unknown.

actions A list of actions that can be performed on the job (see Actions).

running Whether the job is currently running.

autoRemove Whether to remove the job from the Background Jobs pane when it's complete.

show Whether to show the job in the Jobs pane.

#### Value

An ID representing the newly added job, used as a handle to provide further updates of the job's status.

jobAddOutput 23

#### **Actions**

The actions parameter is a named list of functions that the user can invoke on the job; for example:  $actions = list(stop = function(id) \{ ... \})$ . The function will be passed a parameter named id with the job ID that invoked it.

There are three special action names:

**stop** If there is an action named stop, then the job will have a Stop button in in the Jobs pane, and pressing that button will invoke the stop action.

**info** If there is an action named info, then the job will have an informational link in the Background Jobs pane rather than an output display, and clicking the link will invoke the info action.

**replay** If there is an action named replay, then the job will have a Replay button that displays when the job has finished running. Clicking the button will invoke the replay action.

## See Also

```
Otherjobs: jobAddOutput(), jobAddProgress(), jobRemove(), jobRunScript(), jobSetProgress(), jobSetState(), jobSetStatus()
```

jobAddOutput

Add Background Job Output

#### Description

Adds text output to a background job.

#### Usage

```
jobAddOutput(job, output, error = FALSE)
```

#### **Arguments**

job The ID of the job that has emitted text.

output The text output emitted by the job.

error Whether the output represents an error.

```
Other jobs: jobAddProgress(), jobAdd(), jobRemove(), jobRunScript(), jobSetProgress(), jobSetState(), jobSetStatus()
```

jobRemove

jobAddProgress

Add Background Job Progress

# Description

Adds incremental progress units to a background job.

#### Usage

```
jobAddProgress(job, units)
```

## Arguments

job The ID of the job to update progress for.

units The integer number of new progress units completed.

# See Also

```
Other jobs: jobAddOutput(), jobAdd(), jobRemove(), jobRunScript(), jobSetProgress(), jobSetState(), jobSetStatus()
```

jobRemove

Remove a Background Job

## **Description**

Remove a background job from RStudio's Background Jobs pane.

# Usage

```
jobRemove(job)
```

## **Arguments**

job

The ID of the job to remove.

```
Otherjobs: jobAddOutput(), jobAddProgress(), jobAdd(), jobRunScript(), jobSetProgress(), jobSetState(), jobSetStatus()
```

jobRunScript 25

_:	_  _	n	าSc	 

Run R Script As Background Job

## **Description**

Starts an R script as a background job.

#### Usage

```
jobRunScript(
  path,
  name = NULL,
  encoding = "unknown",
  workingDir = NULL,
  importEnv = FALSE,
  exportEnv = ""
)
```

## Arguments

	TOTAL OF THE STATE
path	The path to the R script to be run.

name A name for the background job. When NULL (the default), the filename of the

script is used as the job name.

encoding The text encoding of the script, if known.

workingDir The working directory in which to run the job. When NULL (the default), the

parent directory of the R script is used.

importEnv Whether to import the global environment into the job.

exportEnv The name of the environment in which to export the R objects created by the

job. Use "" (the default) to skip export, "R\_GlobalEnv" to export to the global environment, or the name of an environment object to create an object with that

name.

```
Other jobs: jobAddOutput(), jobAddProgress(), jobAdd(), jobRemove(), jobSetProgress(), jobSetState(), jobSetStatus()
```

jobSetState

jobSetProgress

Set Background Job Progress

# Description

Updates the progress for a background job.

## Usage

```
jobSetProgress(job, units)
```

# **Arguments**

job The ID of the job to set progress for.

units The integer number of total units of work completed so far.

## See Also

```
Other jobs: jobAddOutput(), jobAddProgress(), jobAdd(), jobRemove(), jobRunScript(), jobSetState(), jobSetStatus()
```

jobSetState

Set Background Job State

## Description

Changes the state of a background job.

#### Usage

```
jobSetState(
  job,
  state = c("idle", "running", "succeeded", "cancelled", "failed")
)
```

## Arguments

job The ID of the job on which to change state.

state The new job state.

jobSetStatus 27

## **States**

The following states are supported:

idle The job is waiting to run.

running The job is actively running.

succeeded The job has finished successfully.

cancelled The job was cancelled.

failed The job finished but did not succeed.

#### See Also

```
Other jobs: jobAddOutput(), jobAddProgress(), jobAdd(), jobRemove(), jobRunScript(), jobSetProgress(), jobSetStatus()
```

jobSetStatus

Set Background Job Status

## **Description**

Update a background job's informational status text.

## Usage

```
jobSetStatus(job, status)
```

# Arguments

job The ID of the job to update.

status Text describing job's new status.

```
Other jobs: jobAddOutput(), jobAddProgress(), jobAdd(), jobRemove(), jobRunScript(), jobSetProgress(), jobSetState()
```

28 launcherConfig

launcherAvailable Check if Workbench Launcher is Available

#### **Description**

Check if the Workbench launcher is available and configured to support Workbench jobs; that is, jobs normally launched by the user through the RStudio IDE's user interface.

## Usage

launcherAvailable()

#### See Also

Other job-launcher functionality: launcherConfig(), launcherContainer(), launcherControlJob(), launcherGetInfo(), launcherGetJobs(), launcherGetJob(), launcherHostMount(), launcherNfsMount(), launcherPlacementConstraint(), launcherResourceLimit(), launcherSubmitJob(), launcherSubmitR()

launcherConfig Define a Workbench Launcher Configuration

# Description

Define a Workbench launcher configuration, suitable for use with the config argument to launcherSubmitJob().

#### Usage

```
launcherConfig(name, value = NULL)
```

#### **Arguments**

name The name of the launcher configuration.

value The configuration value. Must either be an integer, float, or string.

## See Also

Other job-launcher functionality: launcherAvailable(), launcherContainer(), launcherControlJob(), launcherGetInfo(), launcherGetJobs(), launcherGetJob(), launcherHostMount(), launcherNfsMount(), launcherPlacementConstraint(), launcherResourceLimit(), launcherSubmitJob(), launcherSubmitR()

launcherContainer 29

launcherContainer	Define a Workbench Launcher Container

#### Description

Define a launcher container, suitable for use with the container argument to launcher Submit Job().

#### Usage

```
launcherContainer(image, runAsUserId = NULL, runAsGroupId = NULL)
```

#### **Arguments**

image The container image to use.

runAsUserId The user id to run as within the container. Defaults to the container-specified

user

runAsGroupId The group id to run as within the container. Defaults to the container-specified

group.

#### See Also

Other job-launcher functionality: launcherAvailable(), launcherConfig(), launcherControlJob(), launcherGetInfo(), launcherGetJobs(), launcherGetJob(), launcherHostMount(), launcherNfsMount(), launcherPlacementConstraint(), launcherResourceLimit(), launcherSubmitJob(), launcherSubmitR()

launcherControlJob

Interact with (Control) a Workbench Job

## **Description**

Interact with a Workbench job.

#### Usage

```
launcherControlJob(
  jobId,
  operation = c("suspend", "resume", "stop", "kill", "cancel")
)
```

#### **Arguments**

jobId The job id.

operation The operation to execute. The operation should be one of c("suspend", "resume",

"stop", "kill", "cancel"). Note that different launcher plugins support different subsets of these operations – consult your launcher plugin documentation

to see which operations are supported.

30 launcherGetJob

#### See Also

Other job-launcher functionality: launcherAvailable(), launcherConfig(), launcherContainer(), launcherGetInfo(), launcherGetJobs(), launcherGetJob(), launcherHostMount(), launcherNfsMount(), launcherPlacementConstraint(), launcherResourceLimit(), launcherSubmitJob(), launcherSubmitR()

launcherGetInfo

Retrieve Workbench Launcher Information

#### **Description**

Retrieve information about the Workbench launcher, as well as the different clusters that the launcher has been configured to use.

#### Usage

launcherGetInfo()

#### See Also

Other job-launcher functionality: launcherAvailable(), launcherConfig(), launcherContainer(), launcherControlJob(), launcherGetJobs(), launcherGetJob(), launcherHostMount(), launcherNfsMount(), launcherPlacementConstraint(), launcherResourceLimit(), launcherSubmitJob(), launcherSubmitR()

launcherGetJob

Retrieve Workbench Job Information

## **Description**

Retrieve information on a Workbench job with id jobId.

#### Usage

launcherGetJob(jobId)

#### **Arguments**

jobId

The id of a Workbench job.

#### See Also

Other job-launcher functionality: launcherAvailable(), launcherConfig(), launcherContainer(), launcherControlJob(), launcherGetInfo(), launcherGetJobs(), launcherHostMount(), launcherNfsMount(), launcherPlacementConstraint(), launcherResourceLimit(), launcherSubmitJob(), launcherSubmitR()

launcherGetJobs 31

launcherGetJobs	Retrieve Workbench Job Information
244	Tierriere memberieri des Ingermenten

#### **Description**

Retrieve information on Workbench jobs.

## Usage

```
launcherGetJobs(
  statuses = NULL,
  fields = NULL,
  tags = NULL,
  includeSessions = FALSE
)
```

#### **Arguments**

statuses Return only jobs whose status matches one of statuses. Valid statuses are:

Pending, Running, Suspended, Failed, Finished, Killed, Canceled. When NULL,

all jobs are returned.

fields Return a subset of fields associated with each job object. When NULL, all fields

associated with a particular job are returned.

tags An optional set of tags. Only jobs that have been assigned one of these requested

tags will be returned.

includeSessions

Boolean; include jobs which are also operating as RStudio R sessions?

#### See Also

Other job-launcher functionality: launcherAvailable(), launcherConfig(), launcherContainer(), launcherControlJob(), launcherGetInfo(), launcherGetJob(), launcherHostMount(), launcherNfsMount(), launcherPlacementConstraint(), launcherResourceLimit(), launcherSubmitJob(), launcherSubmitR()

launcherHostMount Define a Workbench Launcher Host Mount

#### **Description**

Define a launcher host mount, suitable for use with the mounts argument to launcherSubmitJob(). This can be used to mount a path from the host into the generated container.

#### Usage

```
launcherHostMount(path, mountPath, readOnly = TRUE)
```

32 launcherNfsMount

#### **Arguments**

path The host path to be mounted.

mountPath The destination path for the mount in the container.

readOnly Boolean; should the path be mounted read-only?

#### See Also

Other job-launcher functionality: launcherAvailable(), launcherConfig(), launcherContainer(), launcherControlJob(), launcherGetInfo(), launcherGetJobs(), launcherGetJob(), launcherNfsMount(), launcherPlacementConstraint(), launcherResourceLimit(), launcherSubmitJob(), launcherSubmitR()

launcherNfsMount Define a Workbench Launcher NFS Mount

## Description

Define a launcher NFS mount, suitable for use with the mounts argument to launcherSubmitJob(). This can be used to mount a path from a networked filesystem into a newly generated container.

#### Usage

launcherNfsMount(host, path, mountPath, readOnly = TRUE)

#### **Arguments**

host The host name, or IP address, of the NFS server.

path The NFS path to be mounted.

mountPath The destination path for the mount in the container.

readOnly Boolean; should the path be mounted read-only?

#### See Also

Other job-launcher functionality: launcherAvailable(), launcherConfig(), launcherContainer(), launcherControlJob(), launcherGetInfo(), launcherGetJobs(), launcherGetJob(), launcherHostMount(), launcherPlacementConstraint(), launcherResourceLimit(), launcherSubmitJob(), launcherSubmitR()

launcherPlacementConstraint

Define a Workbench Launcher Placement Constraint

#### **Description**

Define a launcher placement constraint, suitable for use with the placementConstraints argument to launcherSubmitJob().

#### Usage

launcherPlacementConstraint(name, value = NULL)

#### **Arguments**

name The name of this placement constraint.

value The value of the constraint. A job will only be placed on a requested node if the

requested placement constraint is present.

#### See Also

Other job-launcher functionality: launcherAvailable(), launcherConfig(), launcherContainer(), launcherControlJob(), launcherGetInfo(), launcherGetJobs(), launcherGetJob(), launcherHostMount(), launcherNfsMount(), launcherResourceLimit(), launcherSubmitJob(), launcherSubmitR()

launcherResourceLimit Define a Workbench Launcher Resource Limit

## Description

Define a launcher resource limit, suitable for use with the resourceLimits argument to launcherSubmitJob().

#### Usage

launcherResourceLimit(type, value)

## **Arguments**

type The resource limit type. Must be one of cpuCount, cpuFrequency, cpuSet,

cpuTime, memory, memorySwap. Different launcher plugins may support different subsets of these resource limit types; please consult the plugin documen-

tation to learn which limits are supported.

value The formatted value of the requested limit.

34 launcherSubmitJob

#### See Also

Other job-launcher functionality: launcherAvailable(), launcherConfig(), launcherContainer(), launcherControlJob(), launcherGetInfo(), launcherGetJobs(), launcherGetJob(), launcherHostMount(), launcherNfsMount(), launcherPlacementConstraint(), launcherSubmitJob(), launcherSubmitR()

launcherSubmitJob

Submit a Workbench Job

#### **Description**

Submit a Workbench job. See https://docs.posit.co/job-launcher/latest/index.html for more information.

## Usage

```
launcherSubmitJob(
  name,
  cluster = "Local",
  tags = NULL,
  command = NULL,
  exe = NULL,
  args = NULL,
  environment = NULL,
  stdin = NULL,
  stdoutFile = NULL,
  stderrFile = NULL,
 workingDirectory = NULL,
 host = NULL,
  container = NULL,
  exposedPorts = NULL,
 mounts = NULL,
 placementConstraints = NULL,
  resourceLimits = NULL,
  queues = NULL,
  config = NULL,
  user = Sys.getenv("USER"),
  applyConfigSettings = TRUE
)
```

## **Arguments**

name A descriptive name to assign to the job.

cluster The name of the cluster this job should be submitted to.

tags A set of user-defined tags, used for searching and querying jobs.

command The command to run within the job. This is executed via the system shell. Only

one of command or exe should be specified.

launcherSubmitJob 35

exe The (fully pathed) executable to run within the job. Only one of command or exe

should be specified.

args An array of arguments to pass to the command / executable.

environment A list of environment variables to be set for processes launched with this job.

stdin Data to be written to stdin when the job process is launched.

stdoutFile The file used for the job's generated standard output. Not all launcher plugins

support this parameter.

stderrFile The file used for the job's generated standard error. Not all launcher plugins

support this parameter.

workingDirectory

The working directory to be used by the command / executable associated with

this job.

host The host that the job is running on, or the desired host during job submission.

container The container to be used for launched jobs.

exposedPorts The ports that are exposed by services running on a container. Only applicable

to systems that support containers.

mounts A list of mount points. See launcherHostMount() and launcherNfsMount()

for more information.

placementConstraints

A list of placement constraints. See launcherPlacementConstraint() for

more information.

resourceLimits A list of resource limits. See launcherResourceLimit() for more information.

queues A list of available submission queues for the cluster. Only applicable to batch

systems like LSF.

config A list of cluster-specific configuration options. See launcherConfig() for

more information.

user The user-name of the job owner.

applyConfigSettings

Apply server-configured mounts, exposedPorts, and environment, in addition to

any specified in this call.

#### See Also

Other job-launcher functionality: launcherAvailable(), launcherConfig(), launcherContainer(), launcherControlJob(), launcherGetInfo(), launcherGetJobs(), launcherGetJob(), launcherHostMount(), launcherNfsMount(), launcherPlacementConstraint(), launcherResourceLimit(), launcherSubmitR()

36 navigateToFile

launcherSubmitR	Execute an R Script as a Workbench Job	
	•	

#### **Description**

Convenience function for running an R script as a Workbench job using whichever R is found on the path in the Workbench launcher cluster.

#### Usage

```
launcherSubmitR(script, cluster = "Local", container = NULL)
```

## Arguments

script Fully qualified path of R script. Must be a path that is available in the job

container (if using containerized job cluster such as Kubernetes).

cluster The name of the cluster this job should be submitted to.

container The container to be used for launched jobs.

#### **Details**

See launcherSubmitJob() for running jobs with full control over command, environment, and so forth.

#### See Also

Other job-launcher functionality: launcherAvailable(), launcherConfig(), launcherContainer(), launcherControlJob(), launcherGetInfo(), launcherGetJobs(), launcherGetJob(), launcherHostMount(), launcherNfsMount(), launcherPlacementConstraint(), launcherResourceLimit(), launcherSubmitJob()

navigateToFile

Navigate to file

#### **Description**

Open a file in RStudio, optionally at a specified location.

#### Usage

```
navigateToFile(
  file = character(0),
  line = -1L,
  column = -1L,
  moveCursor = TRUE
)
```

persistent-values 37

#### **Arguments**

file The file to be opened.

line The line number where the cursor should be placed. When -1L (the default), the

cursor will not be moved.

column The column number where the cursour should be placed. When -1L (the de-

fault), the cursor will not be moved.

moveCursor Boolean; should the cursor be moved to the requested (line, column) position?

Set this to FALSE to preserve the existing cursor position in the document.

#### **Details**

The navigateToFile opens a file in RStudio. If the file is already open, its tab or window is activated.

Once the file is open, the cursor is moved to the specified location. If the file argument is empty (the default), then the file is the file currently in view if one exists. If the line and column arguments are both equal to -1L (the default), then the cursor position in the document that is opened will be preserved. Alternatively, moveCursor can be set to FALSE to preserve the cursor position.

Note that if your intent is to navigate to a particular function within a file, you can also cause RStudio to navigate there by invoking View on the function, which has the advantage of falling back on deparsing if the file is not available.

### Note

The navigateToFile function was added in version 0.99.719 of RStudio.

persistent-values

Persistent keys and values

## **Description**

Store persistent keys and values. Storage is per-project; if there is no project currently active, then a global store is used.

#### Usage

```
setPersistentValue(name, value)
getPersistentValue(name)
```

#### **Arguments**

name The key name. value The key value.

38 previewRd

# Value

The stored value as a character vector (NULL if no value of the specified name is available).

### Note

The setPersistentValue and getPersistentValue functions were added in version 1.1.57 of RStudio.

previewRd

Preview an Rd topic in the Help pane

# Description

Preview an Rd topic in the Help pane.

# Usage

```
previewRd(rdFile)
```

## **Arguments**

rdFile

The path to an .Rd file.

## Note

The previewRd function was added in version 0.98.191 of RStudio.

# **Examples**

```
## Not run:
rstudioapi::previewRd("~/MyPackage/man/foo.Rd")
## End(Not run)
```

previewSql 39

previewSql	Preview SQL statement	
------------	-----------------------	--

# Description

Makes use of 'DBI' and dbGetQuery() to preview a SQL statement for a given 'DBI' connection.

## Usage

```
previewSql(conn, statement, ...)
```

## **Arguments**

conn The 'DBI' connection to be used to execute this statement.

statement The SQL statement to execute. Either a path to a file containing a SQL statement

or the SQL statement itself.

... Additional arguments to be used in dbGetQuery().

#### Note

The previewSql function was introduced in RStudio 1.2.600

# Description

By default, functions returning a document context will return a list of selections, including both the 'primary' selection and also 'other' selections (e.g. to handle the case where a user might have multiple cursors active). Use primary\_selection() to extract the primary selection.

## Usage

```
primary_selection(x, ...)
```

# **Arguments**

x A document context, or a selection.

... Optional arguments (currently ignored).

40 readPreference

projects

Open a project in RStudio

## Description

Initialize and open RStudio projects.

## Usage

```
openProject(path = NULL, newSession = FALSE)
initializeProject(path = getwd())
```

## **Arguments**

path Either the path to an existing . Rproj file, or a path to a directory in which a new

project should be initialized and opened.

newSession Boolean; should the project be opened in a new session, or should the current

RStudio session switch to that project? Note that TRUE values are only supported

with RStudio Desktop and RStudio Server Pro.

## Details

Calling openProject() without arguments effectively re-opens the currently open project in RStudio. When switching projects, users will be prompted to save any unsaved files; alternatively, you can explicitly save any open documents using documentSaveAll().

#### Note

The openProject and initializeProject functions were added in version 1.1.287 of RStudio.

readPreference

Read Preference

## **Description**

Reads a user preference, useful to remember preferences across different R sessions for the same user.

## Usage

```
readPreference(name, default)
```

readRStudioPreference 41

### Arguments

name The name of the preference.

default The default value to use when the preference is not available.

### **Details**

User preferences can have arbitrary names and values. You must write the preference with writePreference before it can be read (otherwise its default value will be returned).

#### Note

The readPreference function was added in version 1.1.67 of RStudio.

#### See Also

readRStudioPreference, which reads RStudio IDE preferences.

readRStudioPreference Read RStudio Preference

## **Description**

Reads an internal RStudio IDE preference for the current user.

#### Usage

readRStudioPreference(name, default)

### **Arguments**

name The name of the preference.

default The default value of the preference, returned if the preference is not found.

## **Details**

RStudio IDE internal preferences include the values displayed in RStudio's Global Options dialog as well as a number of additional settings.

#### Note

The readRStudioPreference function was added in version 1.3.387 of RStudio.

## See Also

readPreference, which can be used to read arbitrary user (non-RStudio) preferences set with writePreference.

link{writeRStudioPreference}, which can be used to write internal RStudio IDE preferences.

## **Examples**

```
## Not run:
# Get indentation settings
spaces <- rstudioapi::readRStudioPreference("num_spaces_for_tab", FALSE)
message("Using ", spaces, " per tab.")
## End(Not run)</pre>
```

registerCommandCallback

Register Command Callback

## **Description**

Registers a callback to be executed when an RStudio command is invoked.

## Usage

```
registerCommandCallback(commandId, callback)
```

## **Arguments**

commandId The ID of the command to listen for.

callback A function to execute when the command is invoked.

#### **Details**

RStudio commands can be invoked from menus, toolbars, keyboard shortcuts, and the Command Palette, as well as the RStudio API. The callback will be executed whenever the command is invoked, regardless of how the invocation was triggered.

See the RStudio Server Professional Administration Guide appendix for a list of supported command IDs.

The callback is executed *after* the command has been run, but as some commands initiate asynchronous processes, there is no guarantee that the command has finished its work when the callback is invoked.

If you're having trouble figuring out the ID of a command you want to listen for, it can be helpful to discover it by listening to the full command stream; see the example in registerCommandStreamCallback for details.

Note that no error will be raised if you use a command ID that does not exist.

## Value

A handle representing the registration. Pass this handle to unregisterCommandCallback to unregister the callback.

## Note

The registerCommandCallback function was introduced in RStudio 1.4.1589.

### See Also

unregisterCommandCallback to unregister the callback, and registerCommandStreamCallback to be notified whenever *any* command is executed.

## **Examples**

 $register {\tt CommandStreamCallback}$ 

Register Command Stream Callback

## **Description**

Registers a callback to be executed whenever any RStudio command is invoked.

## Usage

```
registerCommandStreamCallback(callback)
```

## **Arguments**

callback

A function to execute when the command is invoked.

44 removeTheme

#### **Details**

The callback function will be given a single argument with the ID of the command that was invoked. See the RStudio Server Professional Administration Guide appendix for a list of command IDs.

Note that there is a small performance penalty incurred across the IDE when a command stream listener is present. If you only need to listen to a few specific commands, it is recommended to set up callbacks for them individually using registerCommandCallback.

#### Value

A handle representing the registration. Pass this handle to unregisterCommandCallback to unregister the callback.

### Note

The registerCommandStreamCallback function was introduced in RStudio 1.4.1589.

# See Also

unregisterCommandCallback to unregister the callback, and registerCommandCallback to be notified whenever a *specific* command is executed.

## **Examples**

```
## Not run:
# Set up a callback to print the ID of commands executed to the console.
handle <- rstudioapi::registerCommandStreamCallback(function(id) {
    message("Command executed: ", id)
})

# Later: Unregister the callback
rstudioapi::unregisterCommandCallback(handle)

## End(Not run)</pre>
```

removeTheme

Remove a custom theme from RStudio.

## **Description**

Remove a custom theme from RStudio.

# Usage

```
removeTheme(name)
```

## **Arguments**

name

The unique name of the theme to remove.

restartSession 45

## Note

The removeTheme function was introduced in RStudio 1.2.879.

restartSession

Restart the R Session

## **Description**

Restart the RStudio session.

## Usage

```
restartSession(command = "")
```

## **Arguments**

command

A command (as a string) to be run after restarting.

#### Note

The restartSession function was added in version 1.1.281 of RStudio.

rstudio-documents

Interact with Documents open in RStudio

## **Description**

Use these functions to interact with documents open in RStudio.

## Usage

```
insertText(location = NULL, text = NULL, id = NULL)
modifyRange(location = NULL, text = NULL, id = NULL)
setDocumentContents(text, id = NULL)
setCursorPosition(position, id = NULL)
setSelectionRanges(ranges, id = NULL)
documentId(allowConsole = TRUE)
documentPath(id = NULL)
```

46 rstudio-documents

```
documentSave(id = NULL)

documentSaveAll()

documentNew(
   text,
   type = c("r", "rmarkdown", "sql"),
   position = document_position(0, 0),
   execute = FALSE
)

documentOpen(path, line = -1L, col = -1L, moveCursor = TRUE)

documentClose(id = NULL, save = TRUE)
```

#### **Arguments**

		• •		
location	An object specifying the	positions, or ranges	. wherein text sho	ould be inserted.

See **Details** for more information.

text A character vector, indicating what text should be inserted at each aforemen-

tioned range. This should either be length one (in which case, this text is applied to each range specified); otherwise, it should be the same length as the ranges

list.

id The document id. When NULL or blank, the requested operation will apply to the

currently open, or last focused, RStudio document.

position The cursor position, typically created through document\_position().

ranges A list of one or more ranges, typically created through document\_range().

allowConsole Allow the pseudo-id #console to be returned, if the R console is currently fo-

cused? Set this to FALSE if you'd always like to target the currently-active or

last-active editor in the Source pane.

type The type of document to be created.

execute Should the code be executed after the document is created?

path The path to the document.

The line in the document to navigate to.The column in the document to navigate to.

moveCursor Boolean; move the cursor to the requested location after opening the document?

save Whether to commit unsaved changes to the document before closing it.

#### **Details**

location should be a (list of) document\_position or document\_range object(s), or numeric vectors coercable to such objects.

To operate on the current selection in a document, call insertText() with only a text argument, e.g.

rstudio-documents 47

```
insertText("# Hello\n")
insertText(text = "# Hello\n")
```

Otherwise, specify a (list of) positions or ranges, as in:

```
# insert text at the start of the document
insertText(c(1, 1), "# Hello\n")

# insert text at the end of the document
insertText(Inf, "# Hello\n")

# comment out the first 5 rows
pos <- Map(c, 1:5, 1)
insertText(pos, "# ")

# uncomment the first 5 rows, undoing the previous action
rng <- Map(c, Map(c, 1:5, 1), Map(c, 1:5, 3))
modifyRange(rng, "")</pre>
```

modifyRange is a synonym for insertText, but makes its intent clearer when working with ranges, as performing text insertion with a range will replace the text previously existing in that range with new text. For clarity, prefer using insertText when working with document\_positions, and modifyRange when working with document\_ranges.

documentClose accepts an ID of an open document rather than a path. You can retrieve the ID of the active document using the documentId() function.

Closing is always done non-interactively; that is, no prompts are given to the user. If the user has made changes to the document but not saved them, then the save parameter governs the behavior: when TRUE, unsaved changes are committed, and when FALSE they are discarded.

## Note

The insertText, modifyRange and setDocumentContents functions were added with version 0.99.796 of RStudio.

The setCursorPosition and setSelectionRanges functions were added with version 0.99.1111 of RStudio.

The documentSave and documentSaveAll functions were added with version 1.1.287 of RStudio.

The documentId and documentPath functions were added with version 1.4.843 of RStudio.

The documentNew function was introduced in RStudio 1.2.640.

The documentOpen function was introduced in RStudio 1.4.1106.

The documentClose function was introduced in RStudio 1.2.1255

48 savePlotAsImage

rstudio-editors Retrieve information about an Rstudio Editor	rstudio-editors	Retrieve Information about an RStudio Editor
--	-----------------	--

## **Description**

Returns information about an RStudio editor.

## Usage

```
getActiveDocumentContext()
getSourceEditorContext(id = NULL)
getConsoleEditorContext()
```

## Arguments

id

The ID of a particular document, as retrieved by documentId() or similar. Supported in RStudio 2022.06.0 or newer.

#### **Details**

The selection field returned is a list of document selection objects. A document selection is just a pairing of a document range, and the text within that range.

### Value

A list with elements:

id The document ID.

path The path to the document on disk. contents The contents of the document.

selection A list of selections. See **Details** for more information.

### Note

The getActiveDocumentContext function was added with version 0.99.796 of RStudio, while the getSourceEditorContext and the getConsoleEditorContext functions were added with version 0.99.1111.

# **Description**

Save the plot currently displayed in the Plots pane as an image.

selections 49

## Usage

```
savePlotAsImage(
  file,
  format = c("png", "jpeg", "bmp", "tiff", "emf", "svg", "eps"),
  width,
  height
)
```

## **Arguments**

file The target file path.

format The Image format. Must be one of ("png", "jpeg", "bmp", "tiff", "emf", "svg",

or "eps").

width The image width, in pixels.

height The image height, in pixels.

#### Note

The savePlotAsImage function was introduced in RStudio 1.1.57.

selections Manipulate User Selections in the RStudio IDE

# Description

These functions allow users of the rstudioapi package to read and write the user's current selection within the RStudio IDE.

## Usage

```
selectionGet(id = NULL)
selectionSet(value = NULL, id = NULL)
```

## **Arguments**

id The document ID. When NULL (the default), the active, or most-recently edited,

document will be used.

value The text contents to set for the selection.

50 showDialog

|--|

## **Description**

Send code to the R console, and optionally execute it.

# Usage

```
sendToConsole(code, execute = TRUE, echo = TRUE, focus = TRUE, animate = FALSE)
```

## **Arguments**

code The R code to be executed, as a character vector.

execute Boolean; should the code be executed after being submitted to the console? If

FALSE, code is submitted to the console but is not executed.

echo Boolean; echo the code in the console as it is executed?

focus Boolean; focus the console after sending code?

animate Boolean; should the submitted code be animated, as if someone was typing it?

#### Note

The sendToConsole function was added in version 0.99.787 of RStudio.

# **Examples**

```
## Not run:
rstudioapi::sendToConsole(".Platform", execute = FALSE, animate = TRUE)
## End(Not run)
```

showDialog Show Dialog Box

## **Description**

Shows a dialog box with a given title and contents.

## Usage

```
showDialog(title, message, url = "")
```

showPrompt 51

## **Arguments**

title The title to display in the dialog box.

message A character vector with the contents to display in the main dialog area. Contents

can contain the following HTML tags: "p", "em", "strong", "b" and "i".

url An optional url to display under the message.

### **Details**

```
showDialog("A dialog", "Showing <b>bold</b> text in the
message.")
```

## Note

The showDialog function was added in version 1.1.67 of RStudio.

showPrompt	t Show Prompt Dialog E	Box

## **Description**

Shows a dialog box with a prompt field.

## Usage

```
showPrompt(title, message, default = NULL)
```

## **Arguments**

title The title to display in the dialog box.

message A character vector with the contents to display in the main dialog area.

default An optional character vector that fills the prompt field with a default value.

## Note

The showPrompt function was added in version 1.1.67 of RStudio.

52 sourceMarkers

		_			
ck	าดพ(	רויר	· ~ +	i /	٦n
- 51	IOW	Jue	: S L	Τ(	ווכ

Show Question Dialog Box

# Description

Shows a dialog box asking a question.

# Usage

```
showQuestion(title, message, ok = NULL, cancel = NULL)
```

## **Arguments**

title The title to display in the dialog box.

message A character vector with the contents to display in the main dialog area.

ok And optional character vector that overrides the caption for the OK button.

cancel An optional character vector that overrides the caption for the Cancel button.

### Note

The showQuestion function was added in version 1.1.67 of RStudio.

sourceMarkers

Display source markers

# Description

Display user navigable source markers in a pane within RStudio.

## Usage

```
sourceMarkers(
  name,
  markers,
  basePath = NULL,
  autoSelect = c("none", "first", "error")
)
```

systemUsername 53

#### **Arguments**

name The name of marker set. If there is a market set with this name already being

shown, those markers will be replaced.

markers An R list, or data.frame, of source markers. See **details** for more details on the

expected format.

basePath Optional. If all source files are within a base path, then specifying that path here

will result in file names being displayed as relative paths. Note that in this case

markers still need to specify source file names as full paths.

autoSelect Auto-select a marker after displaying the marker set?

#### **Details**

The marker's argument can contains either a list of marker lists or a data frame with the appropriate marker columns. The fields in a marker are as follows (all are required):

type The marker type ("error", "warning", "info", "style", or "usage").

file The path to the associated source file.

line The line number for the associated marker.

column The column number for the associated marker.

message A message associated with the marker at this location.

Note the marker message can contain ANSI SGR codes for formatting. The cli package can format text for style and color.

## Note

The sourceMarkers function was added in version 0.99.225 of RStudio.

systemUsername	Get System Username

# **Description**

Returns the system username of the current user.

# Usage

systemUsername()

54 terminalActivate

terminalActivate

Activate Terminal

## **Description**

Ensure terminal is running and optionally bring to front in RStudio.

## Usage

```
terminalActivate(id = NULL, show = TRUE)
```

# Arguments

id The terminal id. The id is obtained from terminalList(), terminalVisible(),

terminalCreate(), or terminalExecute(). If NULL, the terminal tab will be

selected but no specific terminal will be chosen.

show

If TRUE, bring the terminal to front in RStudio.

## Note

The terminalActivate function was added in version 1.1.350 of RStudio.

## **Examples**

```
## Not run:
# create a hidden terminal and run a lengthy command
termId = rstudioapi::terminalCreate(show = FALSE)
rstudioapi::terminalSend(termId, "sleep 5\n")
# wait until a busy terminal is finished
while (rstudioapi::terminalBusy(termId)) {
  Sys.sleep(0.1)
print("Terminal available")#'
rstudioapi::terminalActivate(termId)
## End(Not run)
```

terminalBuffer 55

terminalBuffer	Get Terminal Buffer
----------------	---------------------

## **Description**

Returns contents of a terminal buffer.

# Usage

```
terminalBuffer(id, stripAnsi = TRUE)
```

## **Arguments**

id The terminal id. The id is obtained from terminalList(), terminalVisible(),

terminalCreate(), or terminalExecute().

stripAnsi If FALSE, don't strip out Ansi escape sequences before returning terminal buffer.

### Value

The terminal contents, one line per row.

#### Note

The terminalBuffer function was added in version 1.1.350 of RStudio.

# Description

Are terminals reporting that they are busy?

### Usage

```
terminalBusy(id)
```

### **Arguments**

## **Details**

This feature is only supported on RStudio Desktop for Mac and Linux, and RStudio Server. It always returns FALSE on RStudio Desktop for Microsoft Windows.

56 terminalClear

## Value

a boolean

## Note

The terminalBusy function was added in version 1.1.350 of RStudio.

## **Examples**

```
## Not run:
# create a hidden terminal and run a lengthy command
termId <- rstudioapi::terminalCreate(show = FALSE)
rstudioapi::terminalSend(termId, "sleep 5\n")

# wait until a busy terminal is finished
while (rstudioapi::terminalBusy(termId)) {
   Sys.sleep(0.1)
}
print("Terminal available")

## End(Not run)</pre>
```

terminalClear

Clear Terminal Buffer

# Description

Clears the buffer for specified terminal.

# Usage

```
terminalClear(id)
```

## **Arguments**

id

The terminal id. The id is obtained from terminalList(), terminalVisible(), terminalCreate(), or terminalExecute().

## Note

The terminalClear function was added in version 1.1.350 of RStudio.

terminalContext 57

### **Examples**

```
## Not run:
termId <- rstudioapi::terminalCreate()
rstudioapi::terminalSend(termId, 'ls -l\n')
Sys.sleep(3)
rstudioapi::terminalClear(termId)
## End(Not run)</pre>
```

terminalContext

Retrieve Information about RStudio Terminals

## **Description**

Returns information about RStudio terminal instances.

## Usage

```
terminalContext(id)
```

# Arguments

id

The terminal id. The id is obtained from terminalList(), terminalVisible(), terminalCreate(), or terminalExecute().

## Value

A list with elements:

handle the internal handle

caption caption

title title set by the shell working\_dir working directory

shell shell type

running is terminal process executing busy is terminal running a program exit\_code process exit code or NULL

connection websockets or rpc sequence creation sequence

lines of text in terminal buffer

cols columns in terminal rows rows in terminal

pid process id of terminal shell full\_screen full screen program running

58 terminalCreate

#### Note

The terminalContext function was added in version 1.1.350 of RStudio.

## **Examples**

```
## Not run:
termId <- rstudioapi::terminalCreate("example", show = FALSE)
View(rstudioapi::terminalContext(termId))
## End(Not run)</pre>
```

terminalCreate

Create a Terminal

## **Description**

Create a new Terminal.

## Usage

```
terminalCreate(caption = NULL, show = TRUE, shellType = NULL)
```

## **Arguments**

caption The desired terminal caption. When NULL or blank, the terminal caption will be

chosen by the system.

show If FALSE, terminal won't be brought to front.

shellType Shell type for the terminal: NULL or "default" to use the shell selected in Global

Options. For Microsoft Windows, alternatives are "win-cmd" for 64-bit Command Prompt, "win-ps" for 64-bit PowerShell, "win-git-bash" for Git Bash, or "win-wsl-bash" for Bash on Windows Subsystem for Linux. On Linux, Mac, and RStudio Server "custom" will use the custom terminal defined in Global Options. If the requested shell type is not available, the default shell will be

used, instead.

#### Value

The terminal identifier as a character vector (NULL if unable to create the terminal or the given terminal caption is already in use).

## Note

The terminalCreate function was added in version 1.1.350 of RStudio and the ability to specify shellType was added in version 1.2.696.

terminalExecute 59

## **Examples**

```
## Not run:
termId <- rstudioapi::terminalCreate('My Terminal')
## End(Not run)</pre>
```

terminalExecute

Execute Command

## **Description**

Execute a command, showing results in the terminal pane.

## Usage

```
terminalExecute(command, workingDir = NULL, env = character(), show = TRUE)
```

## **Arguments**

command System command to be invoked, as a character string.

workingDir Working directory for command

env Vector of name=value strings to set environment variables

show If FALSE, terminal won't be brought to front

#### Value

The terminal identifier as a character vector (NULL if unable to create the terminal).

#### Note

The terminalExecute function was added in version 1.1.350 of RStudio.

# **Examples**

```
## Not run:
termId <- rstudioapi::terminalExecute(
  command = 'echo $HELLO && echo $WORLD',
  workingDir = '/usr/local',
  env = c('HELLO=WORLD', 'WORLD=EARTH'),
  show = FALSE)

while (is.null(rstudioapi::terminalExitCode(termId))) {
   Sys.sleep(0.1)
}</pre>
```

60 terminalKill

```
result <- terminalBuffer(termId)
terminalKill(termId)
print(result)
## End(Not run)</pre>
```

terminalExitCode

Terminal Exit Code

# Description

Get exit code of terminal process, or NULL if still running.

## Usage

```
terminalExitCode(id)
```

### **Arguments**

id

The terminal id. The id is obtained from terminalList(), terminalVisible(), ,terminalCreate(), or terminalExecute().

## Value

The exit code as an integer vector, or NULL if process still running.

### Note

The terminalExitCode function was added in version 1.1.350 of RStudio.

terminalKill

Kill Terminal

## **Description**

Kill processes and close a terminal.

# Usage

```
terminalKill(id)
```

### **Arguments**

id

The terminal id. The id is obtained from terminalList(), terminalVisible(), terminalCreate(), or terminalExecute().

terminalList 61

## Note

The terminalKill function was added in version 1.1.350 of RStudio.

terminalList

Get All Terminal Ids

## **Description**

Return a character vector containing all the current terminal identifiers.

#### Usage

```
terminalList()
```

#### Value

The terminal identifiers as a character vector.

### Note

The terminalList function was added in version 1.1.350 of RStudio.

terminalRunning

Is Terminal Running

## **Description**

Does a terminal have a process associated with it? If the R session is restarted after a terminal has been created, the terminal will not restart its shell until it is displayed either via the user interface, or via terminalActivate().

## Usage

```
terminalRunning(id)
```

## **Arguments**

id

The terminal id. The id is obtained from terminalList(), terminalVisible(), terminalCreate(), or terminalExecute().

### Value

a boolean

## Note

The terminalRunning function was added in version 1.1.350 of RStudio.

62 terminalSend

## **Examples**

```
## Not run:
# termId has a handle to a previously created terminal
# make sure it is still running before we send it a command
if (!rstudioapi::terminalRunning(termId)) {
    rstudioapi::terminalActivate(termId))

    # wait for it to start
    while (!rstudioapi::terminalRunning(termId)) {
        Sys.sleep(0.1)
    }

    terminalSend(termId, "echo Hello\n")
}

## End(Not run)
```

terminalSend

Send Text to a Terminal

## **Description**

Send text to an existing terminal.

## Usage

```
terminalSend(id, text)
```

## **Arguments**

id The terminal id. The id is obtained from terminalList(), terminalVisible(), terminalCreate(), or terminalExecute().

text Character vector containing text to be inserted.

## Note

The terminal Send function was added in version 1.1.350 of RStudio.

## **Examples**

```
## Not run:
termId <- rstudioapi::terminalCreate()
rstudioapi::terminalSend(termId, 'ls -l\n')
## End(Not run)</pre>
```

terminalVisible 63

terminalVisible

Get Visible Terminal

# Description

Get Visible Terminal

## Usage

terminalVisible()

### Value

Terminal identifier selected in the client, if any.

#### Note

The terminal Visible function was added in version 1.1.350 of RStudio.

translateLocalUrl

Translate Local URL

### **Description**

Translates a local URL into an externally accessible URL on RStudio Server.

## Usage

```
translateLocalUrl(url, absolute = FALSE)
```

# **Arguments** url

. .

The fully qualified URL to translate; for example, http://localhost:1234/service/page.html.

absolute

Whether to return a relative path URL (the default) or an absolute URL.

#### **Details**

On RStudio Server, URLs which refer to the local host network address (such as http://localhost:1234/ and http://127.0.0.1:5678/) must be translated in order to be externally accessible from a browser. This method performs the required translation, and returns the translated URL, which RStudio Server uses to proxy HTTP requests.

Returns an unmodified URL on RStudio Desktop, and when the URL does not refer to a local address.

### Value

The translated URL.

64 updateDialog

 $unregister {\tt Command Callback}$ 

Unregister Command Callback

# Description

Removes a previously registered command callback.

## Usage

```
unregisterCommandCallback(handle)
```

## **Arguments**

handle

The registration handle to remove.

### Value

```
NULL, invisibly.
```

### Note

The unregisterCommandCallback function was introduced in RStudio 1.4.1589.

updateDialog

Updates a Dialog Box

### **Description**

Updates specific properties from the current dialog box.

## Usage

```
updateDialog(...)
```

## **Arguments**

... Named parameters and values to update a dialog box.

### **Details**

Currently, the only dialog with support for this action is the New Connection dialog in which the code preview can be updated through this API.

```
updateDialog(code = "con <- NULL")</pre>
```

## Note

The updateDialog function was added in version 1.1.67 of RStudio.

versionInfo 65

userIdentity

Get User Identity

## **Description**

Returns the identity (displayed name) of the current user.

# Usage

```
userIdentity()
```

versionInfo

RStudio version information

# Description

Query information about the currently running instance of RStudio.

## Usage

```
versionInfo()
```

### Value

An R list with the following elements:

version The version of RStudio.

mode "desktop" for RStudio Desktop, or "server" for RStudio Server.

citation Information on how RStudio can be cited in academic publications.

## Note

The versionInfo function was added in version 0.97.124 of RStudio.

# **Examples**

```
## Not run:
info <- rstudioapi::versionInfo()

# check what version of RStudio is in use
if (info$version >= "1.4") {
    # code specific to versions of RStudio 1.4 and newer
}
```

66 viewer

```
# check whether RStudio Desktop or RStudio Server is being used
if (info$mode == "desktop") {
    # code specific to RStudio Desktop
}
# Get the citation
info$citation
## End(Not run)
```

viewer

View local web content within RStudio

### **Description**

View local web content within RStudio. Content can be served from static files in the R session temporary directory, or via a web application running on localhost.

#### Usage

```
viewer(url, height = NULL)
```

#### **Arguments**

url

Application URL. This can be either a localhost URL or a path to a file within the R session temporary directory (i.e. a path returned by tempfile()).

height

Desired height. Specifies a desired height for the Viewer pane (the default is NULL which makes no change to the height of the pane). This value can be numeric or the string "maximize" in which case the Viewer will expand to fill all vertical space. See details below for a discussion of constraints imposed on the height.

#### **Details**

RStudio also sets the global viewer option to the rstudioapi::viewer function so that it can be invoked in a front-end independent manner.

Applications are displayed within the Viewer pane. The application URL must either be served from localhost or be a path to a file within the R session temporary directory. If the URL doesn't conform to these requirements it is displayed within a standard browser window.

The height parameter specifies a desired height, however it's possible the Viewer pane will end up smaller if the request can't be fulfilled (RStudio ensures that the pane paired with the Viewer maintains a minimum height). A height of 400 pixels or lower is likely to succeed in a large proportion of configurations.

A very large height (e.g. 2000 pixels) will allocate the maximum allowable space for the Viewer (while still preserving some view of the pane above or below it). The value "maximize" will force the Viewer to full height. Note that this value should only be specified in cases where maximum vertical space is essential, as it will result in one of the user's other panes being hidden.

viewer 67

#### **Viewer Detection**

When a page is displayed within the Viewer it's possible that the user will choose to pop it out into a standalone browser window. When rendering inside a standard browser you may want to make different choices about how content is laid out or scaled. Web pages can detect that they are running inside the Viewer pane by looking for the viewer\_pane query parameter, which is automatically injected into URLs when they are shown in the Viewer. For example, the following URL:

```
http://localhost:8100
```

When rendered in the Viewer pane is transformed to:

```
http://localhost:8100?viewer_pane=1
```

To provide a good user experience it's strongly recommended that callers take advantage of this to automatically scale their content to the current size of the Viewer pane. For example, re-rendering a JavaScript plot with new dimensions when the size of the pane changes.

#### Note

The viewer function was added in version 0.98.423 of RStudio. The ability to specify maximize for the height parameter was introduced in version 0.99.1001 of RStudio.

### **Examples**

```
## Not run:
# run an application inside the IDE
rstudioapi::viewer("http://localhost:8100")

# run an application and request a height of 500 pixels
rstudioapi::viewer("http://localhost:8100", height = 500)

# use 'viewer' option if set, or `utils::browseURL()` if unset
viewer <- getOption("viewer", default = utils::browseURL)
viewer("http://localhost:8100")

# generate a temporary html file and display it
dir <- tempfile()
dir.create(dir)
htmlFile <- file.path(dir, "index.html")
# (code to write some content to the file)
rstudioapi::viewer(htmlFile)

## End(Not run)</pre>
```

68 writeRStudioPreference

writePreference

Write Preference

# Description

Writes a user preference, useful to remember preferences across different R sessions for the same user.

### Usage

```
writePreference(name, value)
```

### **Arguments**

name The name of the preference. value The value of the preference.

### Note

The writePreference function was added in version 1.1.67 of RStudio.

## See Also

writeRStudioPreference, which changes RStudio IDE preferences.

writeRStudioPreference

Write RStudio Preference

## **Description**

Writes an internal RStudio IDE preference for the current user.

### Usage

```
writeRStudioPreference(name, value)
```

## **Arguments**

name The name of the preference. value The value of the preference.

writeRStudioPreference 69

## **Details**

RStudio IDE internal preferences include the values displayed in RStudio's Global Options dialog as well as a number of additional settings. Set them carefully; inappropriate values can cause unexpected behavior. See the RStudio Server Professional Administration Guide appendix for your version of RStudio for a full list of preference names and values.

### Note

The writeRStudioPreference function was added in version 1.3.387 of RStudio.

## See Also

writePreference, which can be used to store arbitrary user (non-RStudio) preferences. readRStudioPreference, which reads internal RStudio IDE preferences.

### **Examples**

```
## Not run:
# Hide RStudio's toolbar.
rstudioapi::writeRStudioPreference("toolbar_visible", FALSE)
## End(Not run)
```

# **Index**

* job-launcher functionality	documentNew (rstudio-documents), 45
launcherAvailable, 28	documentOpen (rstudio-documents), 45
launcherConfig, 28	documentPath (rstudio-documents), 45
launcherContainer, 29	documentSave (rstudio-documents), 45
launcherControlJob, 29	<pre>documentSaveAll (rstudio-documents), 45</pre>
launcherGetInfo, 30	documentSaveAll(), $40$
launcherGetJob, 30	
launcherGetJobs, 31	executeCommand, 12
launcherHostMount, 31	exists, 19
launcherNfsMount, 32	file dielege 12
launcherPlacementConstraint, 33	file-dialogs, 13
launcherResourceLimit, 33	filesPaneNavigate, 14
launcherSubmitJob, 34	findFun (hasFun), 19
launcherSubmitR, 36	get, <i>19</i>
	getActiveDocumentContext
addTheme, 3	(rstudio-editors), 48
applyTheme, 4	getActiveProject, 15
as.document_position	getConsoleEditorContext
<pre>(document_position), 11</pre>	(rstudio-editors), 48
as.document_range(document_range), 12	getDelegatedAzureToken, 15
askForPassword, 5	<pre>getPersistentValue (persistent-values),</pre>
askForSecret, 5	37
	getRStudioPackageDependencies, 16
bugReport, 6	getSourceEditorContext
build-tools, 6	(rstudio-editors),48
buildToolsCheck (build-tools), 6	<pre>getThemeInfo, 16</pre>
buildToolsExec (build-tools), 6	getThemes, 17
buildToolsInstall (build-tools), 6	getVersion, 17
callFun, 7	hasColorConsole, 18
chunk-callbacks, 8	hasFun, 7, 19
convertTheme, 9	highlightUi, 19
<pre>createProjectTemplate, 10</pre>	
	initializeProject(projects), 40
dictionaries, 11	<pre>insertText (rstudio-documents), 45</pre>
dictionariesPath (dictionaries), 11	is.document_position
document_position, 11, 12, 46, 47	(document_position), 11
document_range, 12, 46, 47	is.document_range(document_range), 12
documentClose (rstudio-documents), 45	isAvailable, 21
documentId (rstudio-documents), 45	isJob, 21

INDEX 71

jobAdd, 22, 23–27	removeTheme, 44
jobAddOutput, 23, 23, 24–27	restartSession, 45
jobAddProgress, 23, 24, 24, 25–27	rstudio-documents, 45
jobRemove, 23, 24, 24, 25–27	rstudio-editors, 48
jobRunScript, <i>23</i> , <i>24</i> , <i>25</i> , <i>26</i> , <i>27</i>	,
jobSetProgress, <i>23–25</i> , 26, 27	savePlotAsImage, 48
jobSetState, 23–26, 26, 27	selectDirectory (file-dialogs), 13
jobSetStatus, <i>23</i> – <i>27</i> , 27	selectFile (file-dialogs), 13
Jobsets tatas, 25 27, 27	selectionGet (selections), 49
launcherAvailable, 28, 28, 29-36	selections, 49
launcherConfig, 28, 28, 29-36	selectionSet (selections), 49
launcherConfig(), 35	sendToConsole, 50
launcherContainer, 28, 29, 30–36	<pre>setCursorPosition(rstudio-documents),</pre>
launcherControlJob, 28, 29, 29, 30–36	45
launcherGetInfo, 28–30, 30, 31–36	setDocumentContents
launcher Get Job, 28–30, 30, 31–36	(rstudio-documents), 45
	setPersistentValue (persistent-values).
launcherGetJobs, 28–30, 31, 32–36	37
launcherHostMount, 28–31, 31, 32–36	
launcherHostMount(), 35	setSelectionRanges (rstudio-documents)
launcherNfsMount, 28–32, 32, 33–36	45
launcherNfsMount(), 35	showDialog, 50
launcherPlacementConstraint, 28-32, 33,	showPrompt, 51
34–36	showQuestion, 52
<pre>launcherPlacementConstraint(), 35</pre>	sourceMarkers, 52
launcherResourceLimit, 28–33, 33, 35, 36	systemUsername, 53
<pre>launcherResourceLimit(), 35</pre>	
launcherSubmitJob, 28-34, 34, 36	tempfile(), 66
launcherSubmitJob(), 28, 29, 31–33, 36	terminalActivate, 54, 61
launcherSubmitR, 28–35, 36	terminalBuffer, 55
Tudificite Submitter, 20 33, 30	terminalBusy, 55
modifyRange (rstudio-documents), 45	terminalClear, 56
ge (results desamerse), re	terminalContext, 57
navigateToFile, 36	terminalCreate, 54-57, 58, 60-62
numeric_version, 17	terminalExecute, 54-57, 59, 60-62
	terminalExitCode, 60
openProject (projects), 40	terminalKill, 60
, ,	terminalList, 54-57, 60, 61, 61, 62
persistent-values, 37	terminalRunning, 61
previewRd, 38	
previewSql, 39	terminalSend, 62
primary_selection, 39	terminalVisible, 54-57, 60-62, 63
projects, 40	translateLocalUrl, 63
F3	unregisterChunkCallback
readPreference, 40, 41	(chunk-callbacks), 8
readRStudioPreference, 41, 41, 69	unregisterCommandCallback, 42-44, 64
registerChunkCallback	
(chunk-callbacks), 8	updateDialog, 64
registerCommandCallback, 13, 42, 44	userDictionariesPath (dictionaries), 11
registerCommandStreamCallback, 42, 43,	userIdentity, 65
	vonifyAvailable (isAvailable) 21
43	verifyAvailable(isAvailable), 21

72 INDEX

```
versionInfo, 65
View, 37
viewer, 66
writePreference, 41, 68, 69
writeRStudioPreference, 68, 68
```