Package ‘rstudioapi’

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Title   Safely Access the RStudio API

Description   Access the RStudio API (if available) and provide informative error messages when it's not.

Version 0.16.0

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BugReports https://github.com/rstudio/rstudioapi/issues

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addTheme

Add a Custom Editor Theme

Description

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

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(<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.
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.
askForPassword

Note
The applyTheme function was introduced in RStudio 1.2.879.

---

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**

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

**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**

```r
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.

**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:

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

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

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 unregisterChunkCallback() 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**

*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**

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

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>themePath</td>
<td>A full or relative path to the tmTheme file to be converted.</td>
</tr>
<tr>
<td>add</td>
<td>Whether to add the newly converted theme to RStudio. Setting this to true will have the same impact as running <code>{ rstudioapi::convertTheme(&lt;themePath&gt;, outputLocation = &lt;convertedThemePath&gt;); rstudioapi::addTheme(&lt;convertedThemePath&gt;) }</code>. Default: TRUE.</td>
</tr>
<tr>
<td>outputLocation</td>
<td>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.</td>
</tr>
<tr>
<td>apply</td>
<td>Whether to immediately apply the newly added theme. This parameter cannot be set to TRUE if add is set to FALSE. Setting this and add to TRUE has the same impact as running <code>{ rstudioapi::convertTheme(&lt;themePath&gt;, outputLocation = &lt;convertedThemePath&gt;); rstudioapi::addTheme(&lt;convertedThemePath&gt;); rstudioapi::applyTheme(&lt;themeName&gt;) }</code>. Default: FALSE.</td>
</tr>
</tbody>
</table>
createProjectTemplate

Description

Create a project template. See [https://rstudio.github.io/rstudio-extensions/rstudio_project_templates.html](https://rstudio.github.io/rstudio-extensions/rstudio_project_templates.html) for more information.

Usage

```r
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 New Project... wizard.
- `subtitle` (optional) The subtitle to be shown within the New Project... 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 64KB.

Note

The `convertTheme` function was introduced in RStudio 1.2.879.
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 editing after creation?

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)
executeCommand

**Arguments**

- `row`  The row (using 1-based indexing).
- `column`  The column (using 1-based indexing).
- `x`  An object coercable to document_position.

---

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.
- `end`  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**

eexecuteCommand(commandId, quiet = FALSE)
Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>commandId</td>
<td>The ID of the command to execute.</td>
</tr>
<tr>
<td>quiet</td>
<td>Whether to show an error if the command does not exist.</td>
</tr>
</tbody>
</table>

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](https://rstudio.com/pro) 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**

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

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

Files Pane Navigate

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**

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**

```r
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**

```r
getDelegatedAzureToken(resource)
```

**Arguments**

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

**Examples**

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

*Get RStudio Package Dependencies*

**Description**

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

**Usage**

```r
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**

```r
getThemeInfo()
```
getThemes

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.
## 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

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

## End(Not run)
**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**

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

**Arguments**

- `name` 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**

```r
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**

```r
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.
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 https://developer.mozilla.org/en-US/docs/Web/API/Document/querySelectorAll for more details.

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

```r
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:

```r
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

```r
## 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(
#     list(
#         query="#rstudio_workbench_panel_git",
#         callback="rstudioapi::highlightUi('')"
#     )
# )
```
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

isAvailable a boolean; verifyAvailable an error message if RStudio 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()

isBackgroundJob()

isWorkbenchJob()

Details

isWorkbenchJob() is used to detect scripts which have been launched as Workbench jobs, and is only available in RStudio Workbench 2024.04 or newer. These jobs use the RStudio Launcher to run R scripts on remote clusters, as opposed to isBackgroundJob(), which is used to detect background jobs which are run on the local machine.

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
status
progressUnits

The background job’s name.
The initial status text for the job; optional.
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.
jobAddOutput

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.
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: jobAdd(), jobAddOutput(), jobGetState(), jobList(), jobRemove(), jobRunScript(), jobSetProgress(), jobSetState(), jobSetStatus()

jobGetState
Get Background Job State

Description
Get Background Job State

Usage
jobGetState(job)

Arguments
job The ID of the job.

See Also
Other jobs: jobAdd(), jobAddOutput(), jobAddProgress(), jobList(), jobRemove(), jobRunScript(), jobSetProgress(), jobSetState(), jobSetStatus()
**jobList**

### List Background Jobs

**Description**

List any registered background jobs.

**Usage**

```
jobList()
```

**See Also**

Other jobs: `jobAdd()`, `jobAddOutput()`, `jobAddProgress()`, `jobGetState()`, `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.

**See Also**

Other jobs: `jobAdd()`, `jobAddOutput()`, `jobAddProgress()`, `jobGetState()`, `jobList()`, `jobRunScript()`, `jobSetProgress()`, `jobSetState()`, `jobSetStatus()`
jobRunScript

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

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.
enencoding 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.

See Also

Other jobs: jobAdd(), jobAddOutput(), jobAddProgress(), jobGetState(), jobList(), jobRemove(), jobSetProgress(), jobSetState(), jobSetStatus()
**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**
- `jobAdd()`, `jobAddOutput()`, `jobAddProgress()`, `jobGetState()`, `jobList()`, `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.
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: `jobAdd()`, `jobAddOutput()`, `jobAddProgress()`, `jobGetState()`, `jobList()`, `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.

See Also

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

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(), launcherGetJob(), launcherGetJobs(), 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(), launcherGetJob(), launcherGetJobs(), launcherHostMount(), launcherNfsMount(), launcherPlacementConstraint(), launcherResourceLimit(), launcherSubmitJob(), launcherSubmitR()
**launcherContainer**  
*Define a Workbench Launcher Container*

**Description**
Define a launcher container, suitable for use with the container argument to `launcherSubmitJob()`.

**Usage**
```
launcherContainer(image, runAsUser = NULL, runAsGroup = NULL)
```

**Arguments**
- **image**  
The container image to use.
- **runAsUser**
  The user id to run as within the container. Defaults to the container-specified user.
- **runAsGroup**
  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()`, `launcherGetJob()`, `launcherGetJobs()`, `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.
See Also

Other job-launcher functionality: launcherAvailable(), launcherConfig(), launcherContainer(), launcherGetInfo(), launcherGetJob(), launcherGetJobs(), 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**

```python
launcherGetInfo()
```

**See Also**

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

### launcherGetJob

**Retrieve Workbench Job Information**

**Description**

Retrieve information on a Workbench job with id `jobId`.

**Usage**

```python
launcherGetJob(jobId)
```

**Arguments**

- `jobId`: The id of a Workbench job.

**See Also**

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

Retrieve Workbench Job Information

Description

Retrieve information on Workbench jobs.

Usage

```r
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

```r
launcherHostMount(path, mountPath, readOnly = TRUE)
```
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()`, `launcherGetJob()`, `launcherGetJobs()`, `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**

```r
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()`, `launcherGetJob()`, `launcherGetJobs()`, `launcherNfsMount()`, `launcherPlacementConstraint()`, `launcherResourceLimit()`, `launcherSubmitJob()`, `launcherSubmitR()`
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

ame            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(), launcherGetJob(), launcherGetJobs(), launcherHostMount(), launcherNfsMount(), launcherResourceLimit(), launcherSubmitJob(), launcherSubmitR()

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 documentation to learn which limits are supported.

value          The formatted value of the requested limit.
launcherSubmitJob

### See Also

Other job-launcher functionality: launcherAvailable(), launcherConfig(), launcherContainer(), launcherControlJob(), launcherGetInfo(), launcherGetJob(), launcherGetJobs(), 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**

```r
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.
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(), launcherGetJob(), launcherGetJobs(), launcherHostMount(), launcherNfsMount(), launcherPlacementConstraint(), launcherResourceLimit(), launcherSubmitR()
 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**

```r
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()`, `launcherGetJob()`, `launcherGetJobs()`, `launcherHostMount()`, `launcherNfsMount()`, `launcherPlacementConstraint()`, `launcherResourceLimit()`, `launcherSubmitJob()`

---

navigateToFile  

**Navigate to file**

**Description**

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

**Usage**

```r
navigateToFile(
  file = character(0),
  line = -1L,
  column = -1L,
  moveCursor = TRUE
)
```
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 cursor should be placed. When -1L (the default), 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

```r
setPersistentValue(name, value)

getPersistentValue(name)
```

Arguments

- `name` The key name.
- `value` The key value.
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.

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

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

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

---

**primary_selection**

*Extract the Primary Selection*

**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).
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)
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.

---

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.
**registerCommandCallback**

**Description**

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

**Usage**

```r
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.

---

**Examples**

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

## End(Not run)
```
registerCommandStreamCallback

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.
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

```r
## 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)
```

---

removeTheme

Remove a custom theme from RStudio.

Description

Remove a custom theme from RStudio.

Usage

```r
removeTheme(name)
```

Arguments

name  The unique name of the theme to remove.
Note

The removeTheme function was introduced in RStudio 1.2.879.

---

### restartSession

**Restart the R Session**

**Description**

Restart the RStudio session.

**Usage**

```r
restartSession(command = '', clean = FALSE)
```

**Arguments**

- `command`: A command (as a string) to be run after restarting.
- `clean`: Boolean; when FALSE, the current R session (including loaded packages and data objects) will be saved and restored in the new session.

**Note**

The restartSession function was added in version 1.1.281 of RStudio. Support for the clean argument was added for version 2024.04 release of RStudio; it is silently ignored in older versions of RStudio.

---

### rstudio-documents

**Interact with Documents open in RStudio**

**Description**

Use these functions to interact with documents open in RStudio.

**Usage**

```r
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)
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 should be inserted. See Details for more information.
text A character vector, indicating what text should be inserted at each aforementioned 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 focused? 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.
line The line in the document to navigate to.
col 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.

```r
documentId()
```

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

```r
# insert text at the start of the document
documentId()
```

```r
# insert text at the end of the document
insertText(Inf, "# Hello
")
```

```r
# comment out the first 5 rows
pos <- c(1, 5)
documentId()
```

```r
# uncomment the first 5 rows, undoing the previous action
rng <- c(Map(c(1, 5), 1), Map(c(1, 5), 3))
documentId()
```
rstudio-editors Retrieve Information about an RStudio Editor

Description

Returns information about an RStudio editor.

Usage

getActiveDocumentContext()

ggetSourceEditorContext(id = NULL)

ggetConsoleEditorContext()

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:

<table>
<thead>
<tr>
<th>id</th>
<th>The document ID.</th>
</tr>
</thead>
<tbody>
<tr>
<td>path</td>
<td>The path to the document on disk.</td>
</tr>
<tr>
<td>contents</td>
<td>The contents of the document.</td>
</tr>
<tr>
<td>selection</td>
<td>A list of selections. See Details for more information.</td>
</tr>
</tbody>
</table>

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.

savePlotAsImage Save active RStudio plot image

Description

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

```r
collectionGet(id = NULL)
collectionSet(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.

---

**Selections**

Manipulate User Selections in the RStudio IDE

**Usage**

```r
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.
sendToConsole Send code to the R console

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

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

## End(Not run)
```

setGhostText Set ghost text

Description
Set ghost text in the current document. The ghost text will be inserted at the current cursor position. Ghost text can be inserted into the document by pressing Tab, and will be automatically dismissed if the user navigates the cursor away.

Usage
setGhostText(text)
showPrompt

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.
**showQuestion**

**Description**

Shows a dialog box asking a question.

**Usage**

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

**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**: An 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**

**Description**

Display user navigable source markers in a pane within RStudio.

**Usage**

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

**Note**

The `sourceMarkers` function was added in version 1.1.67 of RStudio.
Arguments

name  The name of marker set. If there is a marker 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 markers 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()
**terminalActivate**  

*Activate Terminal*

**Description**

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

**Usage**

```r
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**

```r
## 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

**Get Terminal Buffer**

### Description

Returns contents of a terminal buffer.

### Usage

```r
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.

## terminalBusy

**Is Terminal Busy**

### Description

Are terminals reporting that they are busy?

### Usage

```r
terminalBusy(id)
```

### Arguments

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

### 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.
terminalClear

Value

a boolean

Note

The `terminalBusy` function was added in version 1.1.350 of RStudio.

Examples

```r
## 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)
```

---

**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

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: 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

Examples

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

## End(Not run)
```
**terminalCreate**

**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.
Examples

## Not run:
termId <- rstudioapi::terminalCreate('My Terminal')

## End(Not run)

---

### terminalExecute

#### Execute Command

Execute a command, showing results in the terminal pane.

#### Usage

```r
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

```r
## 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)
}
```
result <- terminalBuffer(termId)
terminalKill(termId)
print(result)
## End(Not run)

---

### 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()`.
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
```r
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
```r
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.
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 terminalSend 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)
terminalVisible  Get Visible Terminal

Description
Get Visible Terminal

Usage
terminalVisible()

Value
Terminal identifier selected in the client, if any.

Note
The `terminalVisible` 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.
unregisterCommandCallback

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")
```

**Note**
The `updateDialog` function was added in version 1.1.67 of RStudio.
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 \texttt{R} list with the following elements:

\begin{itemize}
\item \texttt{version}  
  The version of RStudio.
\item \texttt{mode}  
  "desktop" for RStudio Desktop, or "server" for RStudio Server.
\item \texttt{citation}  
  Information on how RStudio can be cited in academic publications.
\end{itemize}

Note

The \texttt{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$version >= "1.4") {
  # code specific to versions of RStudio 1.4 and newer
}
# check whether RStudio Desktop or RStudio Server is being used
if (info$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

```r
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 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

```r
## 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)
```
**writePreference**  

*Write Preference*

**Description**

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

**Usage**

```r
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**

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

**Arguments**

- `name`  
  The name of the preference.
- `value`  
  The value of the preference.
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

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

## End(Not run)
```
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