Package 'envDocument'

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Type Package

Title Document the R Working Environment

Version 2.4.1

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Description Prints out information about the R working environment
(system, R version,loaded and attached packages and versions) from a single
function ``env_doc()''. Optionally adds information on git repository,
tags, commits and remotes (if available).

License GPL (>= 3.0)

Repository CRAN

URL <https://github.com/dgJacks0n/envDocument>

Suggests git2r(>= 0.22.1), knitr(>= 1.13), stringr(>= 1.2.0),
testthat(>= 1.0.2)

RoxygenNote 6.1.0

VignetteBuilder knitr

Imports utils, methods

NeedsCompilation no

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R topics documented:

envDocument-package   *Document the environment under which an analysis was performed*

Description

Provides a function env_doc that collects information on the script, environment and system that
performed an analysis.

Details

Returns a data frame with information on:

- R version

- Attacheded packages and version

- OS, version and user

- Path and modification time of the calling script

- Git commit and tag info (optional, requires git2r)

Results are collected in a standardized data frame that can be queried or pretty-printed using kable
or similar methods.

Author(s)

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See Also

Useful links:

  • https://github.com/dgJacks0n/envDocument

| collapseInfo | *Collapse list of enviornment information into a single data frme* |

Description

Collapse list of enviornment information into a single data frme

Usage

```
collapseInfo(info_list = list())
```

Arguments

info_list	List with environment information

| env_doc | *Report the working environment in which an analysis was performed.* |

Description

env_doc prints or returns a data frame with the following information: - System version (OS, version, user, working directory)

Usage

```
env_doc(output = c("return", "print", "table"), system = TRUE,
  version = TRUE, packages = TRUE, script = TRUE, git = TRUE,
  domino = c("auto", "on", "off"))
```

Arguments

output	How should output be handled? Character, values: return - return as a data frame (default); print - print to stdout; table - pretty-print using knitr::kable (requires package knitr)
system	Include OS info from getSysInfo? Boolean, default TRUE
version	Include R version from getRversion? Boolean, default TRUE
packages	Include attached packages with repository and version from getPackageInfo? Boolean, default TRUE
script	Include script path and modification time from getScriptInfo? Boolean, default TRUE
git	Include git repository information from getGitInfo (note: requires git2r)? Boolean, default TRUE
domino	Include Domino Datalab run information from getDominoInfo? Character, values: auto - include if available; on - include with warning if not available; off - do not include evn if available

Details

- R version

- Package names and versions

- Top-level script name and modification time

- Git hash, status and tag (if any; requires package git2r)

Value

If output = return (default): A data frame with columns for information type, variable name and value. NULL for output = print or output = table

Examples

```
env_doc("print") # print information to stdout
info <- env_doc() # return information as a consolidated data frame
```

---

getDominoInfo   *Get information about a Domino Datalab run from environment variables in the run environment*

Description

Get information about a Domino Datalab run from environment variables in the run environment

Usage

```
getDominoInfo(drop_vars = c("DOMINO_API_HOST",
  "DOMINO_EXECUTOR_HOSTNAME", "DOMINO_USER_API_KEY"))
```

Arguments

drop_vars   Variables that will not be included in results. Character vector; see https://support.dominodatalab.com/hc/en-us/articles/205536355-Domino-environment-variables for a list of variables.

Value

data frame of Domino environment variables (renamed) and their values

---

getGitInfo   *Get git repository information for a script*

Description

`getGitInfo` locates the git repository for the calling script (if any) and retrieves relevant information such as last commit, status (e.g. modified since last commit) and tag (if any).

Usage

```
getGitInfo(scriptpath = NA)
```

Arguments

scriptpath   Path to script (optional, defaults to calling script from get_scriptPath())

Details

Requires that `git2r` be installed.

Examples

```
git_info <- getGitInfo()
```

---

getPackageInfo   *Get information on attached packages*

Description

`getPackageInfo` returns information on attached packages including name, version and source.

Usage

```
getPackageInfo()
```

Examples

```
packages <- getPackageInfo()
```

---

getRepo   *Locate the git repository where a file is tracked*

Description

getRepo looks the up the repository for a file and makes sure path is tracked in repo. Repositories
are searched from the file directory up using `discover_repository`

Usage

```
getRepo(testPath = NA)
```

Arguments

testPath   Path to a file to find/check repo

---

getScriptInfo   *Get information about the calling script*

Description

getScriptInfo retrieves the file path and modification time for the calling script.

Usage

```
getScriptInfo()
```

Details

Note: Currently this works if the script was called via source(), knitr::spin(), Rstudio's _compile
notebook_ (ctrl-shift-K), Rscript or R -f.

Examples

```
script_info <- getScriptInfo()
```

---

getScriptPath   *Get the path of the calling script*

Description

getScriptPath returns the full path of the script that called this function (if any) or NULL if path is not available

Usage

```
getScriptPath(absolute = TRUE)
```

Arguments

absolute   Return absolute path (absolute = TRUE, default) or path relative to working directory (FALSE)

Examples

```
## Not run:
mypath <- getScriptPath()

## End(Not run)
```

---

getSysInfo   *Get system information.*

Description

getSysInfo returns the OS, hostname, userid and working directory for the current analysis as a data frame

Usage

```
getSysInfo()
```

Examples

```
getSysInfo()
```

---

get_Rversion *Get information on R version*

Description

Get information on R version

Usage

```
get_Rversion()
```

Examples

```
Rversion <- getRversion()
```

---

infoNotFound *Return a consistent failure result when something is not available*

Description

Return a consistent failure result when something is not available

Usage

```
infoNotFound()
```

---

prettyPrintInfo *Output environment information as individual tables per section*

Description

Uses `knitr::kable` to pretty-print separate tables for each 'section' (list element) in the enviromnent information.

Usage

```
prettyPrintInfo(info_list = list())
```

Arguments

info_list   R list with environment information

---

remoteInfo   *Look up remotes for repository*

Description

Look up remotes for repository

Usage

```
remoteInfo(repo)
```

Arguments

repo   A git2r repository object

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