Package ‘envDocument’

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Type Package
Title Document the R Working Environment
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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)
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envDocument-package

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
- Attached 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.

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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 environment information into a single data frame.

**Usage**

```r
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**

```r
eenv_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 even if available
getDominoInfo

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

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

Description

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

Usage

getPackageInfo()

Examples

packages <- getPackageInfo()
getScriptInfo

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

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

Usage

cgetScriptPath(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)

gSysInfo

Get system information.

Description

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

Usage

cgetSysInfo()

Examples

cgetSysInfo()
## get_Rversion

*Get information on R version*

### Description
Get information on R version

### Usage
```r
get_Rversion()
```

### Examples
```r
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
```r
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 environment information.

### Usage
```r
prettyPrintInfo(info_list = list())
```

### Arguments
- **info_list**
  
  R list with environment information
remoteInfo

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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