Package 'checker'

April 26, 2023

Type Package

Title Checks 'R' Configuration Set Up Correctly Before Class

Version 0.1.3

Description Checks that students have the correct version of 'R', 'R' packages,
'RStudio' and other dependencies installed, and that the recommended 'RStudio'
configuration has been applied.

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Encoding UTF-8

URL https://github.com/richardjtelford/checker/

BugReports https://github.com/richardjtelford/checker/issues

Imports yaml, rstudioapi, cli

Suggests quarto, glue

RoxygenNote 7.2.3

NeedsCompilation no

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Repository CRAN

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R topics documented:

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chk_make   *Makes a yaml file with required packages etc*

Description

Makes a yaml file with required packages etc

Usage

```
chk_make(path, programs, packages, options)
```

Arguments

path	File name and path. If missing will print to screen.
programs	data.frame of required programs.
packages	data.frame of required packages
options	data.frame of recommended 'RStudio' options

Details

Programs are checked against names of programs known by checker. Unknown programs are ig-
nored with a message. packages are checked against installed packages. A message is given if
there are any unknown packages. options are checked against a curated list of 'RStudio' op-
tions taken from usethis:::rstudio_prefs_read(). See also https://docs.posit.co/ide/
[server-pro/session_user_settings/session_user_settings.html](https://docs.posit.co/ide/server-pro/session_user_settings/session_user_settings.html). A message is given if
any are not recognised.

Value

Returns a the yaml, invisibly, as a character vector. Main purpose is to write the yaml to a file.

Examples

```
pak <- read.csv(
  text = "package, recommended, minimum, message
        dplyr, 1.0.9, NA, NA
        ggplot2, 3.3.5, 3.3.1, NA",
  strip.white = TRUE
)

prog <- read.csv(text = 'program, recommended, minimum, message
              rstudio, 2022.12.0.353, NA, NA
              R, "4.2.2", "4.1.1", NA
              git, NA, NA, NA',
              strip.white = TRUE)
opt <- read.csv(text = 'option, value, message
              "save_workspace", "never", NA
              "load_workspace", "FALSE", "For reproducibility"',
```

```
                 strip.white = TRUE)

f  <- tempfile(fileext = ".yaml")
(chk_make(path = f, programs = prog, packages = pak, options = opt))
#chk_requirements(f)
unlink(f)
```

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chk_requirements   *Check R set up before a class*

Description

Checks that the required versions of 'R', 'RStudio', 'R' packages and other dependencies are installed.

Usage

```
chk_requirements(path = system.file("default.yaml", package = "checker"))
```

Arguments

path   path to yaml file. Defaults to a file that comes with the package.

Details

chk_requirements() checks that the computer set up before class. It check

- 'R' version
- 'RStudio' version
- 'RStudio' options
- 'R' packages are installed (with version if necessary)
- 'git' version
- 'quarto' version

These requirements are specified in a yaml file specified by the path argument which can be on the users computer or at a URL. If not set, the function defaults to using a built-in yaml file, which may not require the latest version.

Value

No return value, output is printed

Examples

```
chk_requirements()
```

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