

Package ‘natmanager’

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Title Install the 'Natverse' Packages from Scratch

Version 0.5.2

URL <https://github.com/natverse/natmanager>,
<http://natverse.org/natmanager/>

BugReports <https://github.com/natverse/natmanager/issues>

Description Provides streamlined installation for packages from the 'natverse', a suite of R packages for computational neuroanatomy built on top of the 'nat' 'NeuroAnatomy Toolbox' package. Installation of the complete 'natverse' suite requires a 'GitHub' user account and personal access token 'GITHUB_PAT'. 'natmanager' will help the end user set this up if necessary.

License GPL-3

Imports gh (>= 1.2.1), utils, remotes, pak, usethis (>= 2.0.0), curl,
withr

Suggests testthat (>= 2.1.0), knitr, mockery, rstudioapi, covr,
spelling, rappdirs

Encoding UTF-8

Language en-GB

RoxygenNote 7.3.2

NeedsCompilation no

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install	<i>Install natverse packages from GitHub</i>
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Description

install allows you to install one of two collections of nat packages

- core a minimal install that can help users to get started with nat and already solve many problems (the default)
- natverse a powerful "batteries included" distribution with all mature packages in the natverse.

Since the natverse option will install many packages from GitHub, you need to have a GitHub account and personal access token (GITHUB_PAT). Install will check to see if you have a GITHUB_PAT already and, if not, walk you through the steps of setting one up. A fall-back PAT is built into the package but we strongly recommend that you sign up to GitHub and get your own if you start using the natverse regularly.

check_pat can be used to check if you have a GITHUB_PAT set and will advise on how to do this if necessary.

Usage

```
install(
  collection = c("core", "natverse"),
  pkgs = NULL,
  dependencies = TRUE,
  upgrade.dependencies = FALSE,
  method = c("pak", "remotes"),
  ...
)
```

```
check_pat(create = TRUE)
```

Arguments

collection	The collection of natverse packages that you would like to install. The current options are core, the default, or natverse. See Description for more information.
pkgs	A character vector of package names specifying natverse packages to install. When present overrides the collection argument.
dependencies	Which dependencies you want to install. The default value (TRUE) will install all dependencies, NA will install only hard (essential) dependencies, while F will not install any dependencies (not recommended). See <code>pak::pkg_install</code> or <code>install_github</code> for further details.

upgrade.dependencies	Whether to upgrade dependencies of requested packages See the upgrade argument of <code>pak::pkg_install</code> or <code>install_github</code> for details. The default value (FALSE) will do the minimum amount to enable you to install the package(s) you have requested. In contrast TRUE will go ahead and upgrade all dependencies to the latest version; pak will potentially install source packages to do this.
method	Whether to use the <code>pak</code> (now the default) or <code>install_github</code> package for installation.
...	extra arguments to pass to <code>pak::pkg_install</code> or <code>remotes::install_github</code> .
create	Whether to help you create a personal GITHUB_PAT if you do not have one set. When create=FALSE a default PAT will be used if you have not set your own. This could cause trouble if other people are using the same PAT.

Value

`check_pat` returns the PAT invisibly or errors out if `create=TRUE` and none can be set.

Examples

```
## Not run:
# install core packages to try out the core natverse
if(is.interactive()) {
  natmanager::install('core')
}
# Full "batteries included" installation with all packages
if(is.interactive()) {
  natmanager::install('natverse')
  # same but upgrading all dependencies to latest version
  natmanager::install('natverse', upgrade.dependencies = T)
}
# Install natverse, non-natverse package
# for natverse packages no need to specify the repo
if(is.interactive()) {
  natmanager::install(pkgs=c('nat.jrcbrains','flyconnectome/hemibrainr'))
}

## End(Not run)
## Not run:
# Check status of GitHub PAT and create one if required
natmanager::check_pat(create=TRUE)
# Check status of GitHub PAT and use default if no personal one available
natmanager::check_pat(create=FALSE)

## End(Not run)
```

`list_repo`*List all the repos inside a particular GitHub organisation*

Description

by default this will list all the repositories inside the ‘natverse’ organization.

Usage

```
list_repo(orgname = "natverse")
```

Arguments

`orgname` Name of the GitHub organization

Value

Character vector of repository names

Examples

```
## Not run:  
natmanager::list_repo()  
  
## End(Not run)
```

`selfupdate`*Update the ‘natmanager’ package itself.*

Description

Update the ‘natmanager’ package itself.

Usage

```
selfupdate(  
  source = c("GITHUB", "CRAN"),  
  upgrade.dependencies = TRUE,  
  force = FALSE,  
  method = c("pak", "remotes"),  
  ...  
)
```

Arguments

source	Location from which to obtain a newer version of natmanager. Defaults to GITHUB since this may well have a newer version than the CRAN package repository.
upgrade.dependencies	Whether to upgrade dependencies of requested packages See the upgrade argument of <code>pak::pkg_install</code> or <code>install_github</code> for details. The default value (FALSE) will do the minimum amount to enable you to install the package(s) you have requested. In contrast TRUE will go ahead and upgrade all dependencies to the latest version; pak will potentially install source packages to do this.
force	Force self update even if there doesn't seem to be an update (default FALSE)
method	Whether to use the <code>pak</code> (now the default) or <code>install_github</code> package for installation.
...	extra arguments to pass to <code>pak::pkg_install</code> or <code>remotes::install_github</code> .

Value

Logical indicating whether an update was required (invisibly).

See Also

[install](#)

Examples

```
## Not run:  
natmanager::selfupdate()  
  
## End(Not run)
```

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