

Package ‘icesTAF’

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Title Functions to Support the ICES Transparent Assessment Framework

Depends TAF

Imports purrr, roxygen2

Suggests git2r

Description Functions to support the ICES Transparent Assessment Framework <<https://taf.ices.dk>> to organize data, methods, and results used in ICES assessments. ICES is an organization facilitating international collaboration in marine science.

License GPL-3

URL <https://taf.ices.dk>

Encoding UTF-8

RoxygenNote 7.2.1

NeedsCompilation no

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icesTAF-package	<i>Functions to Support the ICES Transparent Assessment Framework</i>
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Description

Functions to support the ICES Transparent Assessment Framework, to organize data, methods, and results used in ICES assessments.

Details

Initial TAF steps:

<code>draft.data.script</code>	create bootstrap script
<code>taf.roxygenise</code>	create DATA.bib entry from tags

Author(s)

Arni Magnusson and Colin Millar.

References

ICES Transparent Assessment Framework: <https://taf.ices.dk>.

To explore example TAF stock assessments, see the introductory [video](#) and [tutorial](#).

The [TAF Wiki](#) provides additional help resources.

add.data.script	<i>Import a bootstrap data script from ICES datasets repo</i>
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Description

Download an ‘R’ file from the ICES datasets repo to fetch data including adding metadata via roxygen2 fields to the top of the file.

Usage

```
add.data.script(name, install.deps = TRUE, commit = FALSE)
```

Arguments

name	the name of the dataset.
install.deps	install packages used in the script if not already installed.
commit	should the bootstrap file be added and committed to the analysis.

Examples

```
## Not run:

# Create bootstrap folder
mkdir(taf.boot.path())

# Create bootstrap script, bootstrap/mydata.R
add.data.script(name = "vms")

# Create metadata, bootstrap/DATA.bib
taf.roxygenise(files = "vms.R")

# Run bootstrap script, creating bootstrap/data/vms/...
taf.bootstrap()

## End(Not run)
```

draft.data.script *Draft or create a bootstrap data script*

Description

Create an 'R' file to fetch data including adding metadata via roxygen2 fields to the top of the file.

Usage

```
draft.data.script(name, title, description, format, originator, year, period,
  access, content)
```

Arguments

name	the name of the dataset and the file name that will be created.
title	description of the data, including survey names or the like.
description	a more involved description if required.
format	the format of the data produced, e.g. "csv"
originator	who prepared the data, e.g. a working group acronym.
year	year of the analysis when the data were used. The default is the current year.
period	a numeric vector of the form c(1990, 2000), indicating the first and last year that the data cover. Alternatively, a single number if the data cover only one year.
access	data access code: "OSPAR", "Public", or "Restricted".
content	the r code that fetches and saves the data

Examples

```
## Not run:

# Create bootstrap folder
mkdir("bootstrap")

# Create bootstrap script, bootstrap/mydata.R
draft.data.script(name="mydata", title="Title", description="Description",
                  format="txt", originator="Me", year="2022",
                  period=c(2000,2020), access="Public",
                  content='write(pi, file="pi.txt")')

# Create metadata, bootstrap/DATA.bib
taf.roxygenise(files="mydata.R")

# Run bootstrap script, creating bootstrap/data/mydata/pi.txt
taf.bootstrap()

## End(Not run)
```

install.deps

Install packages dependencies of a TAF analysis

Description

Search R scripts for packages that are required and install them.

Usage

```
install.deps(...)
```

Arguments

... arguments passed on to [install.packages](#)

See Also

[deps](#)

Examples

```
## Not run:

library(icesTAF)

# Download a TAF analysis
download("https://github.com/ices-taf/2019_san.sa.6/archive/refs/heads/master.zip")
unzip("master.zip")
```

```
# move into analysis folder
setwd("2019_san.sa.6-master")

# list dependencies
deps()

# install dependencies
install.deps()

## End(Not run)
```

taf.roxygenise *Process a TAF repo with the taf roclet*

Description

This function builds documentation for a TAF repository using roxygen syntax headers. It depends on the roxygen2 package adding some extra functionality to produce citation entries for data sources

Usage

```
taf.roxygenise(path = ".", files)
```

Arguments

path	location of taf repository top level directory. Default is working directory.
files	a vector of file names to parse for documentation.

Examples

```
## Not run:

# Create bootstrap folder
mkdir("bootstrap")

# Create bootstrap script, bootstrap/mydata.R
draft.data.script(name="mydata", title="Title", description="Description",
                  format="txt", originator="Me", year="2022",
                  period=c(2000,2020), access="Public",
                  content='write(pi, file="pi.txt)")

# Create metadata, bootstrap/DATA.bib
taf.roxygenise(files="mydata.R")

# Run bootstrap script, creating bootstrap/data/mydata/pi.txt
taf.bootstrap()

## End(Not run)
```

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