

Package ‘icesTAF’

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Title Functions to Support the ICES Transparent Assessment Framework

Imports purrr, roxygen2, TAF (>= 4.2.0), data.tree

Suggests git2r

LazyData yes

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>, <https://github.com/ices-tools-prod/icesTAF>

Encoding UTF-8

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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 boot script
<code>taf.roxygenise</code>	create DATA.bib entry from tags

Author(s)

Colin Millar and Arni Magnusson.

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 boot 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 boot script be added and committed to the analysis.

Examples

```
## Not run:  
  
# Create boot folder  
mkdir(taf.boot.path())  
  
# Create boot script, boot/mydata.R  
add.data.script(name = "vms")  
  
# Create metadata, boot/DATA.bib  
taf.roxygenise(files = "vms.R")  
  
# Run boot script, creating boot/data/vms/...  
taf.boot()  
  
## End(Not run)
```

dir.tree

Print a directory tree

Description

Print the directory tree and file contents in a pretty way

Usage

```
dir.tree(path = ".")
```

Arguments

path	the directory for which the listing is to be shown
------	--

See Also

[list.files](#)

Examples

```
## Not run:  
  
library(icesTAF)  
  
# Download a TAF analysis  
dir.tree()  
  
## End(Not run)
```

download.analysis	<i>Download a TAF analysis</i>
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Description

Download the code for a TAF analysis from GitHub.

Usage

```
download.analysis(repo, dir = tempdir())
```

Arguments

repo	The full name of the GitHub repository, e.g. "ices-taf/2019_san.sa.6".
dir	the directory to place the TAF project

See Also

[run.analysis](#)

Examples

```
## Not run:  
  
library(icesTAF)  
  
# Download a TAF analysis  
run_dir <- download.analysis("ices-taf/2019_san.sa.6", dir = ".")  
  
# run the analysis  
run.analysis(run_dir)  
  
## End(Not run)
```

draft.data.script *Draft or create a boot 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 boot folder
mkdir("boot")

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

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

## End(Not run)
```

install.deps	<i>Install packages dependencies of a TAF analysis</i>
--------------	--

Description

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

Usage

```
install.deps(path = ".", ...)
```

Arguments

path	a directory or file containing R scripts.
...	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)
```

run.analysis	<i>Run a TAF analysis</i>
--------------	---------------------------

Description

Run the code for a TAF analysis locally.

Usage

```
run.analysis(dir)
```

Arguments

dir the directory where the TAF project is located

See Also

[download.analysis](#)

Examples

```
## Not run:  
  
library(icesTAF)  
  
# Download a TAF analysis  
run_dir <- download.analysis("ices-taf/2019_san.sa.6", dir = ".")  
  
# run the analysis  
run.analysis(run_dir)  
  
## End(Not run)
```

taf.colors	<i>TAF Colors</i>
------------	-------------------

Description

Predefined colors that can be useful in TAF plots.

Usage

```
taf.green  
taf.orange  
taf.blue  
taf.dark  
taf.light
```

See Also

[TAF-package](#) gives an overview of the package.

Examples

```
taf.green

opar <- par(mfrow=c(3,1))
barplot(5:1, main="Five",
        col=c(taf.green, taf.orange, taf.blue, taf.dark, taf.light))

barplot(6:1, main="Six", col=c(taf.green, taf.orange, taf.blue,
                              taf.dark, taf.light, "white"))

barplot(7:1, main="Seven", col=c("black", taf.dark, taf.light,
                                 taf.green, taf.orange, taf.blue, "white"))

par(opar)
```

taf.roxygenise	<i>Process a TAF repo with the taf roclet</i>
----------------	---

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 boot folder
mkdir("boot")

# Create boot script, boot/mydata.R
draft.data.scrip(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, boot/DATA.bib
```



```
taf.roxygenise(files="mydata.R")

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

## End(Not run)
```

taf.skeleton.sa.org *TAF Skeleton*

Description

Create initial directories and R scripts for a new TAF analysis using a stock assessment created on stockassessment.org.

Usage

```
taf.skeleton.sa.org(path = ".", stockname, force = FALSE)
```

Arguments

path	where to create initial directories and R scripts. The default is the current working directory.
stockname	The short-form name of a stock on stockassessment.org.
force	whether to overwrite existing scripts.

Value

Full path to analysis directory.

See Also

[package.skeleton](#) creates an empty template for a new R package.

[TAF-package](#) gives an overview of the package.

Examples

```
## Not run:
taf.skeleton.sa.org(stockname = "WBCod_2021_cand01")

## End(Not run)
```

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