Package 'icesTAF'

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icesTAF-package

Functions to Support the ICES Transparent Assessment Framework

Description

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

Details

Initial TAF steps:

```
draft.data.script create boot script 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

Import a boot data script from ICES datasets repo

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)
```

dir.tree 3

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

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Examples

```
## Not run:
library(icesTAF)

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

download.analysis

Download a TAF analysis

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

```
## 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)</pre>
```

draft.data.script 5

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

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install.deps

Install packages dependencies of a TAF analysis

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

```
## 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)
```

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run.analysis

Run a TAF analysis

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)</pre>
```

taf.colors

TAF Colors

Description

Predefined colors that can be useful in TAF plots.

Usage

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

8 taf.roxygenise

See Also

TAF-package gives an overview of the package.

Examples

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.

taf.skeleton.sa.org

```
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 work-

ing 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.
```

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

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