Package 'OCSdata'

January 20, 2025

Title Download Data from the 'Open Case Studies' Repository

Version 1.0.2

Description Provides functions to access and download data from the 'Open Case Studies' <https://www.opencasestudies.org/>
repositories on 'GitHub' <https://github.com/opencasestudies>. Different functions enable
users to grab the data they need at different sections in the case study, as well as
download the whole case study repository. All the user needs to do is input the name of
the case study being worked on. The package relies on the httr::GET() function to access
files through the 'GitHub' API. The functions usethis::use_zip() and usethis::create_from_github()
are used to clone and/or download the case study repositories. To cite an individual case study,
please see the respective 'README' file at <https://github.com/opencasestudies/>.
<https://github.com/opencasestudies/ocs-bp-rural-and-urban-obesity>
<https://github.com/opencasestudies/ocs-bp-air-pollution>
<https://github.com/opencasestudies/ocs-bp-vaping-case-study>
<https://github.com/opencasestudies/ocs-bp-opioid-rural-urban>
<https://github.com/opencasestudies/ocs-bp-RTC-wrangling>
<https://github.com/opencasestudies/ocs-bp-RTC-analysis>
<https://github.com/opencasestudies/ocs-bp-youth-disconnection>
<https://github.com/opencasestudies/ocs-bp-youth-mental-health>
<https://github.com/opencasestudies/ocs-bp-school-shootings-dashboard>
<https://github.com/opencasestudies/ocs-bp-co2-emissions>
<https://github.com/opencasestudies/ocs-bp-diet>.

Imports usethis (>= 2.0.0), purrr (>= 0.3.0), httr (>= 1.4.0)

Depends R (>= 3.5.0)

Suggests testthat (>= 3.0.0), covr, knitr, rmarkdown

VignetteBuilder knitr

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Encoding UTF-8

RoxygenNote 7.1.1

URL <https://github.com/opencasestudies/OCSdata>,
<https://doi.org/10.5281/zenodo.5214347>,
<https://www.opencasestudies.org/>

BugReports https://github.com/opencasestudies/OCSdata/issues

Config/testthat/edition 3

NeedsCompilation no

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Contents

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clone_ocs   *Clone Case Study Repository*

Description

Clone the specified case study repository and save it as a new R project in a local directory. Need to have a personal access token (PAT) registered to work.

Usage

```
clone_ocs(casestudy, outpath = NULL, fork_repo = NA)
```

Arguments

casestudy	character string, name of the case study to clone repository from. The input name should follow the same naming scheme as the repository on GitHub:

       ocs-bp-rural-and-urban-obesity

       ocs-bp-air-pollution

       ocs-bp-vaping-case-study

       ocs-bp-opioid-rural-urban

       ocs-bp-RTC-wrangling

       ocs-bp-RTC-analysis

       ocs-bp-youth-disconnection

       ocs-bp-youth-mental-health

       ocs-bp-school-shootings-dashboard

       ocs-bp-co2-emissions

       ocs-bp-diet

outpath	character string, path to the directory where the downloaded repository folder should be saved to.
fork_repo	logical, FALSE will clone the repo, while TRUE will fork the repo and then clone the fork. Default is NA, which will check if you are allowed to push to the repository or not. If you can, the repo will be cloned. If you cannot push, the repo will be forked and cloned.

Details

This function clones the specified OCS case study repository from GitHub and saves it as a new R project in a new folder in the specified directory. This makes it so the case study repository, including all of the code, data, and document files, are cloned with git and downloaded in a single function. Need to have a personal access token (PAT) to work. Wrapper for the create_from_github function from usethis.

Value

If download is successful, the path to the downloaded data folder is printed and the logical value TRUE is returned. Otherwise the appropriate error message is printed.

Examples

```
## Not run:
tmp = tempfile()
dir.create(tmp)
clone_ocs("ocs-bp-co2-emissions", outpath = tmp)

## End(Not run)
```

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extra_data   *Download Open Case Study Extra Data*

Description

Download the specified case study extra data to use as you wish.

Usage

```
extra_data(casestudy, outpath = NULL)
```

Arguments

casestudy   character string, name of the case study to pull data from. The input name should
                follow the same naming scheme as the repository on GitHub:

                ocs-bp-opioid-rural-urban

                ocs-bp-RTC-wrangling

                ocs-bp-co2-emissions

outpath   character string, path to the directory where the downloaded data folder should
                be saved to.

Details

This function downloads the Open Case Study extra data from GitHub and saves it in a new
'OCS_data/data/extra/' folder in the specified directory. This makes it so all the extra data are
easily available in a local folder for your use.

Value

If download is successful, the path to the downloaded data folder is printed and the logical value
TRUE is returned. Otherwise the appropriate error message is printed.

Examples

```
tmp = tempfile()
dir.create(tmp)
extra_data('ocs-bp-opioid-rural-urban', outpath = tmp)
```

---

imported_data *Download Open Case Study Imported Data*

Description

Download the specified case study imported data to use as you follow along the case study.

Usage

```
imported_data(casestudy, outpath = NULL)
```

Arguments

casestudy
: character string, name of the case study to pull data from. The input name should follow the same naming scheme as the repository on GitHub:
ocs-bp-rural-and-urban-obesity
ocs-bp-air-pollution
ocs-bp-vaping-case-study
ocs-bp-opioid-rural-urban
ocs-bp-RTC-wrangling
ocs-bp-RTC-analysis
ocs-bp-youth-disconnection
ocs-bp-youth-mental-health
ocs-bp-school-shootings-dashboard
ocs-bp-co2-emissions
ocs-bp-diet

outpath
: character string, path to the directory where the downloaded data folder should be saved to.

Details

This function downloads the Open Case Study imported data from GitHub and saves it in a new 'OCSdata/data/imported/' folder in the specified directory. This makes it so all the imported data are easily available in a local folder.

Value

If download is successful, the path to the downloaded data folder is printed and the logical value TRUE is returned. Otherwise the appropriate error message is printed.

Examples

```
tmp = tempfile()
dir.create(tmp)
imported_data('ocs-bp-opioid-rural-urban', outpath = tmp)
```

| OCSdata | *OCSdata: A package for downloading data from the 'Open Case Studies' repository* |

Description

Provides functions to access and download data from the 'Open Case Studies' repository on GitHub. Different functions enable users to grab the data they need at different sections in the case study, as well as download the whole case study repository. All the user needs to do is input the name of the case study being worked on. The package relies on the httr::GET() function to access files through the GitHub API. The functions usethis::use_zip() and usethis::create_from_github() are used to clone and/or download the case study repositories.

OCSdata functions

raw_data: downloads the data files needed to work on the data import section

simpler_import_data: downloads the raw data files in an import friendly format; usually only available when the original raw files are in an uncommon format

extra_data: downloads any extra data files that are not used in the case study

imported_data: downloads the data files used in the data wrangling and exploration sections, use this function when skipping the data import section

wrangled_data: downloads the data files used in the data analysis and visualization sections, use this function when skipping the data wrangling section.

clone_ocs: clones the case study repository with git, needs a registered personal access token (PAT)

zip_ocs: downloads the case study repository as a zip file and unzips it to a local directory

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| raw_data | *Download Open Case Study Raw Data* |

Description

Download the specified case study raw data to use as you follow along the case study.

Usage

```
raw_data(casestudy, outpath = NULL)
```

Arguments

casestudy   character string, name of the case study to pull data from. The input name should
follow the same naming scheme as the repository on GitHub:

                                 ocs-bp-rural-and-urban-obesity

                                 ocs-bp-air-pollution

                                 ocs-bp-vaping-case-study

                                 ocs-bp-opioid-rural-urban

                                 ocs-bp-RTC-wrangling

                                 ocs-bp-RTC-analysis

                                 ocs-bp-youth-disconnection

                                 ocs-bp-youth-mental-health

                                 ocs-bp-school-shootings-dashboard

                                 ocs-bp-co2-emissions

                                 ocs-bp-diet

outpath   character string, path to the directory where the downloaded data folder should
be saved.

Details

This function downloads the Open Case Study raw data from GitHub and saves it in a new 'OCS_data/data/raw/'
folder in the specified directory. This makes it so all the raw data are easily available in a local folder
to be processed and wrangled.

Value

If download is successful, the path to the downloaded data folder is printed and the logical value
TRUE is returned. Otherwise the appropriate error message is printed.

Examples

```
tmp = tempfile()
dir.create(tmp)
raw_data('ocs-bp-opioid-rural-urban', outpath = tmp)
```

---

  simpler_import_data   *Download Open Case Study Simpler Import Data*

Description

Download the specified case study simpler import data to use as you follow along the case study.

Usage

```
simpler_import_data(casestudy, outpath = NULL)
```

Arguments

casestudy   character string, name of the case study to pull data from. The input name should
                 follow the same naming scheme as the repository on GitHub:

                 ocs-bp-vaping-case-study

                 ocs-bp-opioid-rural-urban

                 ocs-bp-youth-disconnection

outpath   character string, path to the directory where the downloaded data folder should
                 be saved to.

Details

This function downloads the Open Case Study simpler import data from GitHub and saves it in
a new 'OCS_data/data/simpler_import/' folder in the specified directory. This makes it so all the
simpler import data are easily available in a local folder to be processed and wrangled.

Value

If download is successful, the path to the downloaded data folder is printed and the logical value
TRUE is returned. Otherwise the appropriate error message is printed.

Examples

```
tmp = tempfile()
dir.create(tmp)
simpler_import_data('ocs-bp-opioid-rural-urban', outpath = tmp)
```

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wrangled_csv   *Download Open Case Study Wrangled Data - CSVs*

Description

Download the specified case study wrangled data to use as you follow along the case study.

Usage

```
wrangled_csv(casestudy, outpath = NULL)
```

Arguments

casestudy   character string, name of the case study to pull data from. The input name should
                 follow the same naming scheme as the repository on GitHub:

                 ocs-bp-rural-and-urban-obesity

                 ocs-bp-air-pollution

                 ocs-bp-vaping-case-study

                 ocs-bp-opioid-rural-urban

ocs-bp-RTC-wrangling

ocs-bp-RTC-analysis

ocs-bp-youth-disconnection

ocs-bp-youth-mental-health

ocs-bp-school-shootings-dashboard

ocs-bp-co2-emissions

ocs-bp-diet

outpath   character string, path to the directory where the downloaded data folder should be saved to.

Details

This function downloads the Open Case Study wrangled data from GitHub and saves it in a new 'OCSdata/data/wrangled/' folder in the specified directory. This makes it so all the wrangled data are easily available in a local folder. The data will be in .csv format.

Value

If download is successful, the path to the downloaded data folder is printed and the logical value TRUE is returned. Otherwise the appropriate error message is printed.

Examples

```
tmp = tempfile()
dir.create(tmp)
wrangled_csv('ocs-bp-opioid-rural-urban', outpath = tmp)
```

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wrangled_rda   *Download Open Case Study Wrangled Data - RDAs*

Description

Download the specified case study wrangled data to use as you follow along the case study.

Usage

```
wrangled_rda(casestudy, outpath = NULL)
```

Arguments

casestudy   character string, name of the case study to pull data from. The input name should follow the same naming scheme as the repository on GitHub:

ocs-bp-rural-and-urban-obesity

ocs-bp-air-pollution

ocs-bp-vaping-case-study

ocs-bp-opioid-rural-urban

ocs-bp-RTC-wrangling

ocs-bp-RTC-analysis

ocs-bp-youth-disconnection

ocs-bp-youth-mental-health

ocs-bp-school-shootings-dashboard

ocs-bp-co2-emissions

ocs-bp-diet

outpath   character string, path to the directory where the downloaded data folder should
                be saved to.

Details

This function downloads the Open Case Study wrangled data from GitHub and saves it in a new
'OCSdata/data/wrangled/' folder in the specified directory. This makes it so all the wrangled data
are easily available in a local folder. The data will be in .rda format.

Value

If download is successful, the path to the downloaded data folder is printed and the logical value
TRUE is returned. Otherwise the appropriate error message is printed.

Examples

```
tmp = tempfile()
dir.create(tmp)
wrangled_rda('ocs-bp-opioid-rural-urban', outpath = tmp)
```

---

zip_ocs   *Download Case Study Repository Zip File*

Description

Download the specified case study repository zip file and unzip it to a local directory.

Usage

```
zip_ocs(casestudy, outpath = NULL)
```

Arguments

casestudy   character string, name of the case study to download zip file from. The input name should follow the same naming scheme as the repository on GitHub:

ocs-bp-rural-and-urban-obesity

ocs-bp-air-pollution

ocs-bp-vaping-case-study

ocs-bp-opioid-rural-urban

ocs-bp-RTC-wrangling

ocs-bp-RTC-analysis

ocs-bp-youth-disconnection

ocs-bp-youth-mental-health

ocs-bp-school-shootings-dashboard

ocs-bp-co2-emissions

ocs-bp-diet

outpath   character string, path to the directory where the downloaded data folder should be saved.

Details

This function downloads the specified OCS case study repository from GitHub as a zip file. The function unzips the folder and saves it as a new R project in a local directory. This makes it so the case study repository, including all of the code, data, and document files, are downloaded with a single function. Wrapper for the use_zip function from usethis.

Value

If download is successful, the path to the downloaded data folder is printed and the logical value TRUE is returned. Otherwise the appropriate error message is printed.

Examples

```
tmp = tempfile()
dir.create(tmp)
zip_ocs('ocs-bp-co2-emissions', outpath = tmp)
```

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