Package 'tgver'

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```
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and port.

Description

Internal helper function to run a 'plumber' instance on specific host and port.

Usage

```
background_run(server, port = 8000, host = "127.0.0.1")
```

Arguments

| server | an instance of 'plumber' class |
|--------|--|
| port | numeric port to pass to 'server' instance |
| host | character host value for 'server' instance |

copy_tgve 3

| copy_tgve Internal helper function to: 1. copy the bundled zip 2. unzip 3. cleanup as required. TODO: return a value? | |
|---|--|
|---|--|

Description

Internal helper function to: 1. copy the bundled zip 2. unzip 3. cleanup as required. TODO: return a value?

Usage

```
copy_tgve(path, over.write = TRUE)
```

Arguments

path character path of TGVE instance

over.write boolean whether to cleanup the instance in 'path'

| explore_dir A function to read and serve at least one file from a directory. | explore_dir | A function to read and serve at least one file from a directory. | |
|--|-------------|--|--|
|--|-------------|--|--|

Description

Current version only tries to: Find two files, one .csv and the other .geojson and pass them to TGVE as 'defaultURL' and 'geographyURL' respectively. It will also look at their column names and try to find matching columns. If there is one file, it passes it to 'explore_file' function.

Usage

```
explore_dir(path, background = FALSE)
```

Arguments

path character of a data directory.

background logical value whether to run instance in 'callr'.

Value

no value returned, depending on 'background' either a or not blocking 'plumber::pr' instance is started. A message is displayed with instance details.

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Examples

```
{
p = file.path(tempdir(), "data")
dir.create(p)
gURL = paste0("https://raw.githubusercontent.com/saferactive/",
   "tgve/main/pf-only-name.geojson")
dURL = "https://raw.githubusercontent.com/saferactive/tgve/main/ksi-pf.csv"
download.file(gURL, destfile = file.path(p, "pf.geojson"))
download.file(dURL, destfile = file.path(p, "data.csv"))

ps = explore_dir(p, background = TRUE)
ps$kill()
unlink(p, recursive = TRUE)
}
```

explore_file

A function to explore a spatial csv or geojson file

Description

Current version can only read geojson/csv files using the given 'file.uri'.

Usage

```
explore_file(file.uri, background = FALSE)
```

Arguments

file.uri character path of file to explore

background Boolean to run the process in the background, defaults to 'FALSE'

Value

no value returned, depending on 'background' either a or not blocking 'plumber' instance is started. A message is displayed with instance details.

Examples

explore_sf 5

explore_sf

Explore an sf R object using TGVE npm package.

Description

Explore an sf R object using TGVE npm package.

Usage

```
explore_sf(
   sf = NULL,
   background = FALSE,
   static = FALSE,
   path = tempInstance()
)
```

Arguments

sf a valid sf object that can be converted to geojson

background Boolean to decide whether plumber

static boolean to decide whether data is written to disk and self contained application

is built

path of a TGVE instance, defaults to one in 'tempdir()' should run in the back-

ground

Value

depending on 'background' either a or not blocking 'plumber::pr' object is started or returned. In the case of a 'background' FALSE value a message is displayed with object details.

file_replace

Examples

file_replace

Function to replace patterns in given files.

Description

Function to replace patterns in given files.

Usage

```
file_replace(files = NULL, pattern, replacement)
```

Arguments

files character vector of full paths where pattern to be replaced.

pattern character pattern to replace using 'gsub'.

replacement character to replace pattern with using 'gsub'.

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get_url

Helper function to generate URLs

Description

The function can generate a URL based on a base URL and as many as TGVE API variables provided to the function.

Usage

```
get_url(base = "http://127.0.0.1:8000", ...)
```

Arguments

```
base character URL defaults to 'http://127.0.0.1:8000'
... any or all of the TGVE API variables to replace/add values to.
```

Value

character URL generated from 'base' and 'tgver::'

Examples

```
{
url = get_url(dark="false")
url == "http://127.0.0.1:8000?dark=false"
url
url = get_url()
url
}
```

help

Function to explore available API variables, their types and examples of using them in the TGVE

Description

Function to explore available API variables, their types and examples of using them in the TGVE

Usage

```
help()
```

Value

no object is returned

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Examples

```
{
help()
}
```

is_valid_url

Good enough regex to sanitize URLs

Description

The task of checking a URL is "hard", see this by J. Hester: https://cran.r-project.org/web/packages/rex/vignettes/url_parsing. To avoid having a dependency for now, let us not use "rex" R package. To try and understand the regex please see this gist which includes a breakdown of the regex: https://gist.github.com/dperini/729294

Usage

```
is_valid_url(string)
```

Arguments

string

must be valid vector of URLs

list_api_files

Function to find what files may contain TGVE API variables for functions like 'file_replace' to consume.

Description

Function to find what files may contain TGVE API variables for functions like 'file_replace' to consume.

Usage

```
list_api_files(path = NULL)
```

Arguments

path

where TGVE instance is located.

openURL 9

| openURL | Internal helper function to "browse" a URL. |
|---------|---|
|---------|---|

Description

Internal helper function to "browse" a URL.

Usage

```
openURL(
    url = NULL,
    host = "127.0.0.1",
    port = 8000,
    browser = FALSE,
    path = "",
    protocol = "http://"
)
```

Arguments

url character url, if given and valid other parameters will be ignored.

host character host to pass to plumber port integer port to pass to plumber

browser Boolean whether to specifically launch a browser

path character path to TGVE instance protocol character protocol, this may change

setup Setup an instance.

Description

This function initializes an instance of TGVE for permanent use compared with what tgve_server which relies on a 'tempdir' based instance. It requires a path.

Usage

```
setup(path = NULL, create = TRUE)
```

Arguments

path Character URI to copy tgve instance in.

create Boolean to create new directory at path, defaults to 'TRUE'.

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Value

no value returned

Examples

```
{
p = file.path(tempdir(), "tgve")
setup(p)
}
```

tempInstance

copy the inst/tgve to a temp in an R session

Description

copy the inst/tgve to a temp in an R session

Usage

```
tempInstance()
```

tgve

Open static TGVE instance

Description

This is the main and most basic function to run an instance of TGVE without back-end. Compared to tgve_server, this function only uses internal functions to setup an instance then opens the entry HTML file. If a path of an instance is provided it opens it, otherwise creates an instance from a 'tempdir'.

Usage

```
tgve(
  path = Sys.getenv("TEMP_path_ENV"),
  browse = TRUE,
  remote = FALSE,
  url = "https://tgve.github.io/app/"
)
```

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Arguments

path character directory of a current instance to browse. Defaults to 'TEMP_PATH_ENV'

environment variable.

browse boolean to decide whether to browse the instance or not.

remote boolean whether to run a remote instance of TGVE. If TRUE the above 'path'

and 'browse' parameters will be ignored. Defaults to 'FALSE'

url if 'remote' is true, then this will be used as the parameter to pass to internal

function 'openURL'. It defaults, for convenience, to 'https://tgve.github.io/app/'

instance.

Value

directory of the new instance if 'path' is not provided.

Examples

```
tgve()
# just get the path of the HTML
p = tgve(browse = FALSE)
file.exists(p)
```

tgve_server

Start a TGVE instance server

Description

The function accepts a 'path' to get a directory containing an instance of TGVE, by default this is done via 'TEMP_DIR_ENV' env variable. If neither is given then the function copies a clean copy of the bundled TGVE version into a temporary directory.

Usage

```
tgve_server(
  path = Sys.getenv("TEMP_path_ENV"),
  port = 8000,
  host = "127.0.0.1",
  background = FALSE,
  run = TRUE
)
```

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Arguments

path location of TGVE path to be served by plumber.

port to serve from.

host host to pass to plumber default 'http://127.0.0.1' to 'FALSE'.

background run the R process in the background using 'callr', defaults to 'TRUE'.

run whether to start the server, defaults to 'TRUE'. If not, then the created server

will be returned.

Value

the valude returned depends on: (1) 'run', if it is FALSE then an instance of 'plumber::pr', (2) if 'run' is true and 'background' is TRUE the 'plumber::pr' instance is started and its process is returned, and (3) if 'run' is TRUE and 'background' is FALSE then a message is displayed showing the blocking 'plumber::pr' instance's 'path', 'port' and 'host'.

Examples

```
{
# This will run in the background using `callr`
ps = tgve_server(background = TRUE)
Sys.sleep(2)
ps$kill()
}
```

version

Version of the tgvejs npm package bundled in 'tgver'

Description

Version of the tgvejs npm package bundled in 'tgver'

Package version included as data

Format

A character vector

Note

This was generated using the script in the 'data' directory ('tgver.R' file).

Author(s)

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```

Examples

```
{
tgver::version
}
```

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