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\begin{tabular}{ll}
\texttt{threesixtygiving} & \textit{threesixtygiving package} \\
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\textbf{Description}

360Giving is a data standard for publishing information about charitable grant giving in the UK. \texttt{threesixtygiving} provides functions to retrieve and process charitable grant funding data from 360Giving.

\textbf{Details}

See the \texttt{360 Giving website} for more information on the source of this data, and the \texttt{360Giving Standard page} for details of the data standard this package relies on.

\begin{tabular}{ll}
\texttt{tsg\_all\_grants} & \textit{All grants} \\
\end{tabular}

\textbf{Description}

Returns a list of data frames with details of all grants from funders returned by \texttt{tsg\_available()}.  

\textbf{Usage}

\texttt{tsg\_all\_grants(\texttt{verbose} = TRUE, \texttt{timeout} = 30, \texttt{retries} = 0, \texttt{correct\_names} = TRUE)}

\textbf{Arguments}

- \texttt{verbose} If TRUE, prints console messages on data retrieval progress. Defaults to TRUE.
- \texttt{timeout} The maximum request time, in seconds. If data is not returned in this time, a value of NA is returned for that dataset. Defaults to 30 seconds.
- \texttt{retries} The number of retries to make if a request is not successful. Defaults to 0.
- \texttt{correct\_names} If TRUE, corrects known mistakes in column names, such as spelling mistakes. Defaults to TRUE.
tsg_available

Details

Due to the structure of the 360 Giving data, the package will make multiple attempts to request data. This can cause issues with servers automatically blocking requests. You can use *tsg_missing()* to identify missing sets of grant data.

Value

A list of tibbles with grant data.

Examples

```r
## Not run:
all_grants <- tsg_all_grants()

## End(Not run)
```

<table>
<thead>
<tr>
<th>tsg_available</th>
<th>Available datasets</th>
</tr>
</thead>
</table>

Description

Returns a tibble with information on all datasets available through 360Giving. Some funders have multiple datasets

Usage

`tsg_available()`

Value

A tibble with details on all available datasets.

Examples

```r
## Not run:
available <- tsg_available()

## End(Not run)
```
tsg_core_data  

Core Data

Description

Given a list returned by `tsg_all_grants()` or `tsg_search_grants()`, creates a tibble with the core variables required by the 360Giving open standard, as well as the publisher prefix and dataset identifier, which are useful for data processing, and the licence the data was published under.

Usage

```r
tsg_core_data(x, verbose = TRUE)
```

Arguments

- `x`  
  A list of tibble with grant data returned by `tsg_all_grants()`.
- `verbose`  
  If TRUE, prints console messages on data retrieval progress. Defaults to TRUE.

Value

A tibble with the core variables in the 360Giving standard.

See Also

`tsg_process_data()`, which does the same processing but returns all available variables.

Examples

```r
## Not run:
grants <- tsg_all_grants()
df <- tsg_core_data(grants)
## End(Not run)
```

tsg_missing  

Identify missing data sets

Description

Returns a tibble with details on any available data missing from a list of grants returned by `tsg_all_grants()`.

Usage

```r
tsg_missing(x)
```
**tsg_process_data**

**Arguments**

- **x** A list of tibble with grant data returned by `tsg_all_grants()`.

**Value**

A tibble with details on funders missing data from a list of tibbles passed to the function.

**Examples**

```r
## Not run:
all_grants <- tsg_all_grants()
missing_grants <- tsg_missing(all_grants)
## End(Not run)
```

---

**tsg_process_data**  
*Convert data to tibble*

**Description**

Given a list returned by `tsg_all_grants()` or `tsg_search_grants()`, creates a tibble with all available variables. This tibble contains roughly 200 columns if all available grants are used (as of October 2019), due to differences in how grant data is labelled and structured.

**Usage**

```r
tsg_process_data(x, min_coverage = 0, verbose = TRUE)
```

**Arguments**

- **x** A list of tibble with grant data returned by `tsg_all_grants()`.
- **min_coverage** A number from 0 to 1. If >0, only returns variables with a value other than `NA` for at least that proportion of rows. Defaults to 0 and returns all columns.
- **verbose** If TRUE, prints console messages on data retrieval progress. Defaults to `TRUE`.

**Value**

A tibble with all variables from all provided grants.

**See Also**

`tsg_core_data()`, which does the same processing but only returns the core variables in the 360Giving standard.
### Examples

```r
## Not run:
grants <- tsg_all_grants()
df1 <- tsg_process_data(grants)
  
  # Only return data from columns with more than 50% coverage
df2 <- tsg_process_data(grants, min_coverage = 0.5)

## End(Not run)
```

### tsg_search_funders  
**Search funders**

#### Description

Return a tibble with information on all grant datasets where funder data matches one or more search strings.

#### Usage

```r
tsg_search_funders(search, search_in = NULL, verbose = TRUE, ignore_case = TRUE, perl = FALSE, fixed = FALSE)
```

#### Arguments

- **search**
  - The string(s) to search for. By default allows POSIX 1003.2 regular expressions. Use `perl = TRUE` for perl-style regex, or `fixed = TRUE` for fixed strings. Accepts single strings or a character vector of strings.

- **search_in**
  - The name of the column to search in. Accepts single strings or a character vector of column names. If `NULL`, searches all columns.

- **verbose**
  - If `TRUE`, prints console messages on data retrieval progress. Defaults to `TRUE`.

- **ignore_case**
  - If `TRUE` ignores case.

- **perl**
  - If `TRUE`, uses perl-style regex.

- **fixed**
  - If `TRUE`, searches will be matched as-is.

#### Value

A tibble with information on matching datasets
tsg_search_grants

See Also
tsg_search_grants() for retrieving all grants from matching funders.

Examples
## Not run:
search1 <- tsg_search_funders(search = c("bbc", "caBinet"))

## End(Not run)

---

**tsg_search_grants**  
*Search for specific datasets*

**Description**
Returns a list of tibbles with details of all grants from specific funders.

**Usage**

```r
tsg_search_grants(
  search,  
  search_in = NULL,  
  verbose = TRUE,  
  ignore_case = TRUE,  
  perl = FALSE,  
  fixed = FALSE,  
  ...
)
```

**Arguments**

- `search`  
The string(s) to search for. By default allows POSIX 1003.2 regular expressions. Use `perl = TRUE` for perl-style regex, or `fixed = TRUE` for fixed strings. Accepts single strings or a character vector of strings.
- `search_in`  
The name of the column to search in. Accepts single strings or a character vector of column names. If `NULL`, searches all columns.
- `verbose`  
If TRUE, prints console messages on data retrieval progress. Defaults to TRUE.
- `ignore_case`  
If TRUE ignores case.
- `perl`  
If TRUE, uses perl-style regex.
- `fixed`  
If TRUE, searches will be matched as-is.
- `...`  
Additional params passed to `tsg_all_grants()`
Details

tsg_search_grants retrieves grants where funder data matches one or more search strings. If only one dataset matches queries, returns a tibble of that dataset. Use tsg_specific_df() to pass a dataframe.

Value

A single tibble (if only one grant maker matches the queries) or a list of tibbles (if the query matches multiple datasets).

See Also

tsg_search_funders() for retrieving information on available datasets from matching funders.
tsg_specific_df() to retrieve data contained with all or specific rows of a tibble returned by tsg_available() or tsg_missing().

Examples

```r
## Not run:
specific1 <- tsg_search_grants(search = c("bbc", "caBinet"))
## End(Not run)
```

---

tsg_specific_df 

Get specific datasets

Description

Retrieve data contained with all or specific rows of a tibble returned by tsg_available() or tsg_missing().

Usage

tsg_specific_df(x, verbose = TRUE, timeout = 30, retries = 0)

Arguments

- **x** 
  All or a subset of a tibble returned by tsg_available() or tsg_missing()
- **verbose** 
  If TRUE, prints console messages on data retrieval progress. Defaults to TRUE.
- **timeout** 
  The maximum request time, in seconds. If data is not returned in this time, a value of NA is returned for that dataset. Defaults to 30 seconds.
- **retries** 
  The number of retries to make if a request is not successful. Defaults to 0.

Value

A list of tibbles with grant data.
See Also

- `tsg_search_grants()`
- `tsg_available()`
- `tsg_missing()`

Examples

```r
## Not run:
all_grants <- tsg_all_grants()

missing_grants <- tsg_missing(all_grants)

more_grants <- tsg_specific_df(missing_grants)

## End(Not run)
```
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