

# Package ‘threesixtygiving’

October 14, 2022

**Title** Download Charitable Grants from the '360Giving' Platform

**Version** 0.2.2

**Description** Access open data from <https://www.threesixtygiving.org>, a database of charitable grant giving in the UK operated by '360Giving'. The package provides functions to search and retrieve data on charitable grant giving, and process that data into tidy formats. It relies on the '360Giving' data standard, described at <https://standard.threesixtygiving.org/>.

**URL** <https://docs.evanodell.com/threesixtygiving>,  
<https://github.com/evanodell/threesixtygiving>,

**BugReports** <https://github.com/evanodell/threesixtygiving/issues>

**License** GPL-3

**Encoding** UTF-8

**LazyData** true

**Imports** dplyr, httr, readxl, readr, jsonlite, purrr, janitor, tidyr,  
tidyselect, anytime, tibble, curl

**RoxygenNote** 7.1.1

**Suggests** covr, testthat (>= 2.1.0), knitr, rmarkdown, ggplot2, scales,  
stringi, ggrepel, fixerapi

**VignetteBuilder** knitr

**NeedsCompilation** no

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threesixtygiving	<i>threesixtygiving package</i>
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### Description

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

### Details

See the [360 Giving website](#) for more information on the source of this data, and the [360Giving Standard](#) page for details of the data standard this package relies on.

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tsg_all_grants	<i>All grants</i>
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### Description

Returns a list of data frames with details of all grants from funders returned by `tsg_available()`.

### Usage

```
tsg_all_grants(verbose = TRUE, timeout = 30, retries = 0, correct_names = TRUE)
```

### Arguments

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.
correct_names	If TRUE, corrects known mistakes in column names, such as spelling mistakes. Defaults to TRUE.

**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**

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

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tsg_available	<i>Available datasets</i>
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**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**

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

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tsg_core_data	<i>Core Data</i>
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### 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

```
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

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

---

tsg_missing	<i>Identify missing data sets</i>
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### Description

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

### Usage

```
tsg_missing(x)
```

**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**

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

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tsg_process_data	<i>Convert data to tibble</i>
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**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**

```
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**

```
## 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)
```

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tsg\_search\_funders      *Search funders*

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**Description**

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

**Usage**

```
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 <code>perl = TRUE</code> for perl-style regex, or <code>fixed = TRUE</code> 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 <code>NULL</code> , searches all columns.
verbose	If <code>TRUE</code> , prints console messages on data retrieval progress. Defaults to <code>TRUE</code> .
ignore_case	If <code>TRUE</code> ignores case.
perl	If <code>TRUE</code> , uses perl-style regex.
fixed	If <code>TRUE</code> , searches will be matched as-is.

**Value**

A tibble with information on matching datasets

**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)
```

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tsg_search_grants	<i>Search for specific datasets</i>
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**Description**

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

**Usage**

```
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 <code>perl = TRUE</code> for perl-style regex, or <code>fixed = TRUE</code> 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 <code>NULL</code> , searches all columns.
verbose	If <code>TRUE</code> , prints console messages on data retrieval progress. Defaults to <code>TRUE</code> .
ignore_case	If <code>TRUE</code> ignores case.
perl	If <code>TRUE</code> , uses perl-style regex.
fixed	If <code>TRUE</code> , searches will be matched as-is.
...	Additional params passed to <a href="#">tsg_all_grants()</a>

**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**

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

## End(Not run)
```

---

tsg\_specific\_df

*Get specific datasets*


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**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 <code>tsg_available()</code> or <code>tsg_missing()</code>
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**

```
## 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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