

# Package ‘tropr’

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**Type** Package

**Title** TV Tropes Statistics

**Version** 0.1.2

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**Description** Fetch TV Tropes <<http://www.tvtropes.org>>, which collects various conventions in creative works, and convert it to data frame.

**Depends** R (>= 3.3.0)

**Imports** digest, httr, magrittr, rvest, stats, stringr, utils, xml2

**Suggests** dplyr, ggplot2, igraph, knitr, testthat

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**VignetteBuilder** knitr

**LazyData** true

**RoxygenNote** 6.0.1

**BugReports** <https://github.com/zedoul/tropr/issues>

**NeedsCompilation** no

**Repository** CRAN

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aggr\_history\_daily\_count

*Aggregate page history data to daily edit counts*

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### **Description**

Aggregate page history data to daily edit counts

### **Usage**

```
aggr_history_daily_count(history_data)
```

### **Arguments**

history\_data    data.frame

### **Examples**

```
library(tropr)

.url <- "http://tvtropes.org/pmwiki/pmwiki.php/Characters/LittleWitchAcademia"
## Not run:
hist_content <- trope_history(.url)
.summary <- aggr_history_daily_count(hist_content)

## End(Not run)
```

---

aggr\_history\_editor\_count

*Aggregate page history data to editor edit counts*

---

### **Description**

Aggregate page history data to editor edit counts

### **Usage**

```
aggr_history_editor_count(history_data)
```

### **Arguments**

history\_data    data.frame

**Examples**

```
library(tropr)

.url <- "http://tvtropes.org/pmwiki/pmwiki.php/Characters/LittleWitchAcademia"
## Not run:
hist_content <- trope_history(.url)
.summary <- aggr_history_editor_count(hist_content)

## End(Not run)
```

---

```
as.data.frame.tropr.content
      Convert TV Tropes content to data frame
```

---

**Description**

Convert TV Tropes content to data frame

**Usage**

```
## S3 method for class 'tropr.content'
as.data.frame(x, ...,
  stringsAsFactors = default.stringsAsFactors())
```

**Arguments**

```
x          tropr.content object
...        additional arguments to be passed to data.frame
stringsAsFactors
            logical: should the character vector be converted to a factor?
```

**Value**

data.frame with tv trope contents

**Examples**

```
library(tropr)

# Use any TV Tropes page url that you analyses
.url <- "http://tvtropes.org/pmwiki/pmwiki.php/Main/SenseiChan"

## Not run:
content <- trope_content(.url)
.df <- as.data.frame(content)

## End(Not run)
```

---

trope\_cache

*Prepare cache for given tv trope urls*


---

### Description

Prepare cache for given tv trope urls

### Usage

```
trope_cache(urls, depth = 1, trope_cache_dir = tempdir(),
  redirect_to_cache_dir = tempdir(), sleep = 0.5, filter_pattern = NULL,
  verbose = T)
```

### Arguments

urls	url of tv trope pages
depth	a size of tree-depth of trope urls. If you set it as 1, then it will only fetch data of urls, and for 2, it will fetch both urls, and their children urls.
trope_cache_dir	a directory for trope data caching
redirect_to_cache_dir	a directory for redirect urls caching
sleep	wait time between queries
filter_pattern	a pattern to filter tv trope urls
verbose	verbosity option

### Value

data.frame which contains statistics how it constructs cache

### Examples

```
library(tropr)

.urls <- c("http://tvtropes.org/pmwiki/pmwiki.php/Main/SenseiChan")
## Not run:
res <- trope_cache(.urls)

## End(Not run)
```

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trope_content	<i>Get TV Tropes content</i>
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**Description**

You can use `trope_content` with TV Tropes URL to get its content, and `as.data.frame()` converts the content to `data.frame`

**Usage**

```
trope_content(.url)
```

**Arguments**

<code>.url</code>	TV Tropes page url
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**Value**

`trope_content` if it exists, it returns `trope_content` which contains TV Tropes page content, otherwise it will show error.

**Examples**

```
library(tropes)

.url <- "http://tvtropes.org/pmwiki/pmwiki.php/Main/SenseiChan"
## Not run:
content <- trope_content(.url)

## End(Not run)
```

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trope_data	<i>Fetch trope data</i>
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**Description**

Fetch trope data

**Usage**

```
trope_data(trope_urls, cache_dir = tempdir(), sleep = 0.5, verbose = F)
```

**Arguments**

<code>trope_urls</code>	url of tv trope pages
<code>cache_dir</code>	a directory for data caching
<code>sleep</code>	wait time between queries
<code>verbose</code>	verbosity option

**Value**

data.frame which contains trope data

**Examples**

```
library(tropr)

.urls <- c("http://tvtropes.org/pmwiki/pmwiki.php/Main/SenseiChan",
           "http://tvtropes.org/pmwiki/pmwiki.php/Main/YouAreBetterThanYouThinkYouAre")
## Not run:
res <- trope_data(.urls)

## End(Not run)
```

---

trope\_history

*Get TV Tropes page history*

---

**Description**

Get TV Tropes page history

**Usage**

```
trope_history(.url, stringsAsFactors = default.stringsAsFactors())
```

**Arguments**

```
.url          TV Tropes page url
stringsAsFactors
              logical: should the character vector be converted to a factor?
```

**Value**

data.frame time-series data with edit counters

**Examples**

```
library(tropr)

.url <- "http://tvtropes.org/pmwiki/pmwiki.php/Characters/LittleWitchAcademia"
## Not run:
hist_content <- trope_history(.url)

## End(Not run)
```

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trope_redirect_to	<i>Get the redirected urls of given trope urls</i>
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**Description**

Get the redirected urls of given trope urls

**Usage**

```
trope_redirect_to(trope_urls, cache_dir = tempdir(), sleep = 0.5,  
  verbose = F)
```

**Arguments**

trope_urls	url of tv trope pages
cache_dir	a directory for data caching
sleep	wait time between queries
verbose	verbosity option

**Value**

data.frame which contains the redirected urls of trope urls

**Examples**

```
library(tropr)  
  
.urls <- c("http://tvtropes.org/pmwiki/pmwiki.php/Main/SenseiChan",  
  "http://tvtropes.org/pmwiki/pmwiki.php/Main/YouAreBetterThanYouThinkYouAre")  
## Not run:  
res <- trope_redirect_to(.urls)  
  
## End(Not run)
```

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