Package ‘swissparl’
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Type Package
Title Interface to the Webservices of the Swiss Parliament
Version 0.2.1
Description Retrieves the most important data on parliamentary activities of the Swiss Federal Assembly via an open, machine-readable interface (see <https://ws.parlament.ch/odata.svc/>).

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clean_text  

Clean texts retrieved from WebServices

Description

clean_text removes HTML code, brackets and their contents as well as line breaks from texts.

Usage

clean_text(text, keep_round_brackets = T)

Arguments

text  a character vector.
keep_round_brackets  if TRUE, round brackets and their contents are not deleted.

Value

A character vector of same length as text.

Examples

## Not run:
# Get clean version of transcripts
get_glimpse(table = "Transcript", rows = 1000, Language = "DE") %>%
  mutate(Text2 = clean_text(Text))

## End(Not run)

g_data  

Retrieve data from WebServices

Description

g_data retrieves data from the WebServices of the Swiss Parliament.

Usage

g_data(
  table,
  package_size = 1000,
  stop = T,
  attempts = 10,
  wtf = 1,
  silent = F,
  ...
)
get_data

Arguments

- **table**: name of the table to download. For an overview of available tables use `get_tables()`.
- **package_size**: number of rows to download at once (maximum = 1000). If a query exceeds `package_size`, it is internally split into multiple subqueries of size `package_size`.
- **stop**: if **TRUE**, the query process is interrupted if the query is invalid. It also indicates whether a non-existent table or variable was used in the query. If **FALSE**, nothing is returned.
- **attempts**: maximum number of repetitions of a single subquery if it was not successful.
- **wtf**: factor for extending the waiting time after unsuccessful queries. If `wtf = 1`, the waiting time corresponds to the number of unsuccessful attempts in seconds. For `attempts = 10` and `wtf = 1`, a query is repeated for a maximum of 45 seconds. The waiting time increases proportionally with `wtf`.
- **silent**: if **TRUE**, no progress bar and messages are displayed.
- **...**: optional filter arguments with values. Since all entries are available in several languages, it is recommended to filter the calls by language, e.g. `get_data(table = "Person", Language = "DE")`. For a table-specific preview use `get_glimpse()` or `get_variables()`.

The following things are to consider:

- numbers for identification numbers, for example, must be entered as numeric vectors: e.g. `get_data(table = "Voting", PersonNumber = c(21, 4167), Language = "DE")`.
- dates must be entered as character vectors in yyyy-mm-dd format. > and < can be used to query periods: e.g. `get_data(table = "Bill", SubmissionDate = c(">2018-12-31", "<2019-02-01"), Language = "DE")`.
- the '~' can be used as substring search for character variables: e.g. `get_data(table = "Bill", Title = "~CO2", Language = "DE")`.

Value

A tibble of different length and variable composition.

Examples

```r
## Not run:
# Retrieve data on the members of the Swiss Parliament
get_data(table = "Person", Language = "DE")

# Retrieve voting behavior of selected councillors
get_data(
  table = "Voting",
  PersonNumber = c(21, 4167),
  Language = "DE"
)

# Retrieve businesses submitted during a specified period
get_data(
  table = "Business",
  SubmissionDate = c(">2018-12-31", "<2019-02-01"),
)```
get_glimpse

Retrieve the first rows of a table

Description

get_glimpse retrieves the first rows of a table of the Swiss Parliament WebServices and allows a first insight into the data structure.

Usage

get_glimpse(table, rows = 20, Language = "DE")

Arguments

table name of the table to glimpse into. For an overview of available tables use get_tables().
rows number of records to download. Maximum is 1000.
Language filter rows by language. Possible are DE, FR, IT, RM, and EN.

Value

A tibble of different length and variable composition.

Examples

## Not run:
# Short excerpt of table "Person"
get_glimpse(table = "Person")

## End(Not run)
get_overview

Retrieve overview of all tables and variables

Description

get_overview retrieves the names of all available tables of the Swiss Parliament WebServices and the variables they contain.

Usage

get_overview(silent = F)

Arguments

silent if TRUE, no progress bar and messages are displayed.

Value

A tibble with the 2 columns table and variable.

Examples

## Not run:
get_overview()
## End(Not run)

get_tables

Retrieve available tables

Description

get_tables retrieves the names of the available tables of the Swiss Parliament WebServices.

Usage

get_tables()

Value

A character vector that contains all the names of the available tables.

Examples

## Not run:
# Get all available tables
get_tables()
## End(Not run)
get_variables  Retrieve available variables

Description

get_variables retrieves the variable names of a table of the Swiss Parliament WebServices.

Usage

get_variables(table, pb.pos = NULL, pb = NULL)

Arguments

table  name of the table to be searched. For an overview of available tables use get_tables().

pb.pos  value for the progress bar. Not to be specified outside of get_overview().

pb  progress bar. Not to be specified outside of get_overview().

Value

A character vector that contains the names of the variables.

Examples

## Not run:
# Get variables of table "Person"
get_variables(table = "Person")

## End(Not run)

ggswissparl  Plot voting results

Description

ggswissparl plots voting results of the Swiss National Council according to the latest seating order.

Usage

ggswissparl(
  votes,
  seats = NULL,
  highlight,
  result = F,
  result_size = 6,
  point_shape = 16,
point_size = 4,
  theme = "scoreboard"
)

Arguments

votes  
data of votes of the Swiss National Council as can be retrieved with get_data(table = "Voting"). The variables PersonNumber, Decision, and DecisionText must be available from the data.

seats  
data linking councillors (PersonNumber) to seats (SeatNumber). If is.null, the most current seating order is retrieved via get_data(table = "SeatOrganisationNr").

highlight  
named list with variable and values to specify highlighting of selected councillors.

result  
if TRUE, the result is annotated.

result_size  
font size of result.

point_shape  
shape of point as defined in [ggplot2]{geom_point}.

point_size  
size of point.

theme  
name of predefined plot theme:

  • "scoreboard" imitates the scoreboard in the council hall: neon-red (yes-votes), neon-green (no-votes) and white (abstentions) dots on black ground in white frames.
  • "sym1" colored symbols on light background in black frames.
  • "sym2" colored symbols on light background without frames.
  • "poly1" color-filled polygons with black edges.
  • "poly2" color-filled polygons with white edges.
  • "poly3" color-filled polygons without edges.

Value

A ggplot object. If votes contains multiple ballots, [ggplot2]{facet_wrap} is used to create facets.

Examples

```r
## Not run:
# Visualization of a vote of the 51st legislature
get_data("Voting", Language = "DE", IdVote = 23458) %>%
ggwissparl()

# Highlighting a parliamentary group
get_data("Voting", Language = "DE", IdVote = 23458) %>%
ggwissparl(highlight = list("ParlGroupNumber" = 2))

## End(Not run)
```
Description

A dataset containing the relative locations of the seats in the Swiss National Council to display schematic seating plans. A seat is defined by 4 corner points.

Usage

seating_plan

Format

A data frame with 800 rows and 5 variables:

- **SeatNumber** seat identifier.
- **order** corner identifier.
- **x** position of a corner point on the x-axis.
- **y** position of a corner point on the y-axis.
- **center_x** position of the seat center on the x-axis.
- **center_y** position of the seat center on the y-axis.

Source

https://www.parlament.ch/en/organe/national-council/groups-chamber-nc

Description

The Swiss Parliament Webservices R API

Details

See the README on GitHub
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