Package ‘congressbr’

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Type Package

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cham_bills

Downloads and tidies data for lists of bills in Brazilian Chamber of Deputies

Usage

cham_bills(
  type = "",
  number = "",
  year = "",
  initial_date = "",
  end_date = "",
  part_name_author = "",
  id_type_author = "",
  abbreviation_party_author = "",
  abbreviation_st_author = "",
  gender_author = "",
  cod_state = "",
  cod_branch_state = "",
  still = "",
  ascii = T
)

Arguments

  type character. The type of the bill. For example, "PL".
  number integer. The number of the bill.
  year integer. The year of the bill.
  initial_date (character) start date of the period requested. This parameter must be in the format YYYY-MM-DD (Year-Month-Day).
end_date  (character) final date for period requested. Format YYYYMMDD.
part_name_author (character). Filter bills by a part of the author’s name
id_type_author  (character). Filter bills by type of a branch_author for the bill.
abbreviation_party_author (character). Filter bills by the party of the author
abbreviation_st_author (character). Filter bills by the state of the author
gender_author  (character). If "M", bills proposed by male authors are filtered. If "F", female authors. If empty, every bill is included.
cod_state  (integer). Filter bills by a part of the author’s name
cod_branch_state (integer). Filter by the id of the branch regarding the bill.
still  (integer). If 1, only bills that are still being discussed are included. If 2, only ended bills. If empty, every bill is included.
ascii logical. If TRUE, certain strings are converted to ascii format.

Value
A tibble, of classes tbl_df, tbl and data.frame.

Author(s)
Robert Myles McDonnell, Guilherme Jardim Duarte & Danilo Freire.

Examples

cham_bills(type = "PL", year = 2011, number = 2718, initial_date="2011-16-11")
Arguments

- **type**: character. The type of the bill. For example, "PL"
- **number**: integer. The number of the bill
- **year**: integer. The year of the bill.
- **ascii**: logical. If TRUE, certain strings are converted to ascii format.

Value

A tibble, of classes tbl_df, tbl and data.frame.

Author(s)

Robert Myles McDonnell, Guilherme Jardim Duarte & Danilo Freire.

Examples

cham_bill_info(type = "PL", number = "3962", year = "2008")

---

**cham_bill_info_id**  Downloads details of a specific bill by providing id of a bill

Description

Downloads details of a specific bill by providing id of a bill

Usage

cham_bill_info_id(bill_id, ascii = T)

Arguments

- **bill_id**: integer. The id number of the bill.
- **ascii**: logical. If TRUE, certain strings are converted to ascii format.

Value

A tibble, of classes tbl_df, tbl and data.frame.

Note

Requesting data from a long period of time with details = TRUE will return a large object in terms of memory. It will also be rather unwieldy, with many columns.

Author(s)

Robert Myles McDonnell, Guilherme Jardim Duarte & Danilo Freire.
cham_plenary_bills

Examples

cham_bill_info_id(14784)

cham_legislator_list  Downloads and tidies information on the legislators in the Chamber of Deputies

Description

Downloads and tidies information on the legislators in the Federal Senate.

Usage

cham_legislator_list()

Value

A tibble, of classes tbl_df, tbl and data.frame.

Author(s)

Robert Myles McDonnell, Guilherme Jardim Duarte & Danilo Freire.

Examples

all <- cham_legislator_list()

cham_plenary_bills  This function lists every bill voted on in plenary.

Description

This function lists every bill voted on in plenary.

Usage

cham_plenary_bills(year, type = "", ascii = T)

Arguments

year (integer) start year of the period requested.
ty pe character. The type of the bill. For example, "PL"
ascii logical. If TRUE, certain strings are converted to ascii format.
*cham_typeauthors_bills*

**Value**

A tibble, of classes tbl_df, tbl and data.frame.

**Note**

Requesting data from a long period of time with `details = TRUE` will return a large object in terms of memory. It will also be rather unwieldy, with many columns.

**Author(s)**

Robert Myles McDonnell, Guilherme Jardim Duarte & Danilo Freire.

**Examples**

```r
cham_plenary_bills(year = 2008)
```

**Description**

Downloads types of authors for bills

**Usage**

```r
cham_typeauthors_bills(ascii = T)
```

**Arguments**

- `ascii` logical. If TRUE, certain strings are converted to ascii format.

**Value**

A tibble, of classes tbl_df, tbl and data.frame.

**Note**

Requesting data from a long period of time with `details = TRUE` will return a large object in terms of memory. It will also be rather unwieldy, with many columns.

**Author(s)**

Robert Myles McDonnell, Guilherme Jardim Duarte & Danilo Freire.

**Examples**

```r
cham_typeauthors_bills()
```
cham_votes

Downloads votes of a specific bill by providing type, number and year.

Description

Downloads votes of a specific bill by providing type, number and year. A bill can have more than one roll call, and the API does not provide an id to identify them. So we provide one (rollcall_id).

Usage

cham_votes(type, number, year, ascii = TRUE)

Arguments

- **type** character. The type of the bill. For example, "PL" for law proposal ("projeto de lei"), "PEC" for constitutional amendments ("projeto de emenda constitucional"), "PDC" for legislative decree ("decreto legislativo"), and "PLP" for supplementary laws ("projeto de lei complementar").
- **number** integer. The number of the bill.
- **year** integer. The year of the bill.
- **ascii** logical. If TRUE, certain strings are converted to ascii format.

Value

A tibble, of classes tbl_df, tbl and data.frame.

Note

Requesting data from a long period of time with details = TRUE will return a large object in terms of memory. It will also be rather unwieldy, with many columns.

Author(s)

Robert Myles McDonnell, Guilherme Jardim Duarte & Danilo Freire.

Examples

cham_votes(type = "PL", number = "1992", year = "2007")
cham_votes_year

Returns voting information from the Chamber floor for the year requested.

Usage

cham_votes_year(year)

Arguments

year character or integer. Format YYYY

Value

A tibble, of classes tbl_df, tbl and data.frame.

Author(s)

Robert Myles McDonnell, Guilherme Jardim Duarte & Danilo Freire.

Examples

cham_votes_year("2013")

commissions

A dataframe of commissions in the Brazilian Federal Senate.

Description

• Commission character. Full name of the commission.
• Name character. Abbreviation. For use as an argument to various congressbr functions (such as sen_senator_comms()).

Usage

commissions

Format

A data frame with 21 rows and 2 variables
Description

A package for obtaining data from the APIs of the Brazilian Chamber of Deputies and the Federal Senate, respectively.

Description

Downloads and tidies data on the agenda in the Federal Senate.

Usage

```r
sen_agenda(
  initial_date = NULL,
  end_date = NULL,
  house = NULL,
  supervisory = NULL,
  legislator = NULL,
  details = FALSE,
  ascii = TRUE
)
```

Arguments

- `initial_date` (character) start date of the period requested. This parameter must be in the format YYYYMMDD (Year-Month-Day). A value for this parameter is necessary, all others are optional.
- `end_date` (character) final date for period requested. Format YYYYMMDD.
- `house` (character). The acronym for the legislative house for which results are requested. Options are SF (Senado Federal, Federal Senate), CN (Congresso Nacional, National Congress - joint meeting of the Senate and Chamber), and CA (Câmara dos Deputados, Chamber of Deputies).
- `supervisory` character. Name of the commission or supervisory body. A data frame of these can be seen with `data(“commissions”)`.
- `legislator` integer. The numeric code given to each senator. A dataframe with these values is returned from the `sen_senator_list()` function.
- `details` (logical). If details is equal to TRUE, the data returned is an expanded dataset with additional details. This is not recommended unless necessary.
- `ascii` logical. If TRUE, certain strings are converted to ascii format.
**sen_bills**

**Value**

A tibble, of classes tbl_df, tbl and data.frame.

**Note**

Requesting data from a long period of time with details = TRUE will return a large object in terms of memory. It will also be rather unwieldy, with many columns.

**Author(s)**

Robert Myles McDonnell, Guilherme Jardim Duarte & Danilo Freire.

**Examples**

```r
sen_agenda(initial_date = "20161105", end_date = "20161125")
```

---

**Description**

Downloads and tidies information on the legislation in the Federal Senate.

**Usage**

```r
sen_bills(
  bill_id = NULL,
  type = NULL,
  number = NULL,
  year = NULL,
  ascii = TRUE
)
```

**Arguments**

- `bill_id` integer. This number is the id given to each bill in the Senate database. For example, running `sen_bills_current()` will return a dataframe with the variable bill_id in the first column. These numbers can be used as this id. If id is not NULL (the default), all other parameters will be set to NULL, as 'bill_id' cannot be used in conjunction with the other parameters. If any one of the other parameters are used (without using bill_id), all three need to be used.

- `type` character. The abbreviation of the vote type you’re looking for. A full list of these can be obtained with the `sen_bill_list()` function. Other types can be seen with `sen_bills_subtypes()`.
sen_bills_current

Downloads and tidies information on legislation from the current legislature of the Federal Senate.

Description

Downloads and tidies information on legislation from the current legislature of the Federal Senate.

Usage

```r
sen_bills_current(year = NULL, date = NULL, time = NULL, number = NULL, type = NULL, passing = NULL)
```

Arguments

- `year`: Format YYYY. Returns legislation from this year.
- `date`: date requested, format YYYYMMDD. Returns information on legislation on or after this time.
- `time`: Format hour-minute-second (HHmmSS). Returns information on legislation on or after this time.
- `number`: bill number.
sen_bills_limits

type type of legislation.

passing is the bill currently under consideration in the Senate? Possible values are \texttt{NULL} (the default), "Yes" or "No". \texttt{NULL} returns the information obtained from "Yes" and "No".

Value

A tibble, of classes \texttt{tbl_df}, \texttt{tbl} and \texttt{data.frame}.

Author(s)

Robert Myles McDonnell, Guilherme Jardim Duarte & Danilo Freire.

Examples

\begin{verbatim}
all <- sen_bills_current()
plc_2015 <- sen_bills_current(year = 2015, type = "PLS")
\end{verbatim}

\begin{verbatim}
sen_bills_limits
\end{verbatim}

\textit{Downloads and tidies information on the types of deadline and time limits for legislation in the Federal Senate}

Description

Downloads and tidies information on the types of deadline and time limits for legislation in the Federal Senate.

Usage

\texttt{sen_bills_limits(ascii = TRUE)}

Arguments

\begin{verbatim}
ascii logical. If \texttt{TRUE}, strips Latin characters from strings.
\end{verbatim}

Value

A tibble, of classes \texttt{tbl_df}, \texttt{tbl} and \texttt{data.frame}.

Author(s)

Robert Myles McDonnell, Guilherme Jardim Duarte & Danilo Freire.

Examples

\begin{verbatim}
lims <- sen_bills_limits()
\end{verbatim}
**sen_bills_list**  
Downloads and tidies information on the types of acts that can be formally made in the Federal Senate.

**Description**  
Downloads and tidies information on the types of acts that can be formally made in the Federal Senate.

**Usage**  

```
sen_bills_list(active = NULL, ascii = TRUE)
```

**Arguments**

- `active`  
  .Possible values are TRUE, FALSE, or can be left as NULL, in which case both active and inactive bill types are returned.

- `ascii` logical. TRUE by default, removes latin-1 characters from returned object.

**Value**  
A tibble, of classes tbl_df, tbl and data.frame.

**Author(s)**  
Robert Myles McDonnell, Guilherme Jardim Duarte & Danilo Freire.

**Examples**  

```
bills <- sen_bills_list(active = TRUE)
```

---

**sen_bills_locations**  
Downloads and tidies information on the possible locations a piece of legislation can currently be passing through the Federal Senate.

**Description**  
Downloads and tidies information on the possible locations a piece of legislation can currently be passing through the Federal Senate.

**Usage**  

```
sen_bills_locations(active = NULL, ascii = TRUE)
```
Arguments

active character. Options are "Yes", "No" or NULL, the default. "Yes" returns active subtypes, "No" returns inactive subtypes, while the default returns both.

ascii logical. If TRUE, strips Latin characters from strings.

Value

A tibble, of classes tbl_df, tbl and data.frame.

Author(s)

Robert Myles McDonnell, Guilherme Jardim Duarte & Danilo Freire.

Examples

sen_bills_locations()

sen_bills_passage Download and tidies information on the possible locations a piece of legislation can currently be passing through

Description

Downloads and tidies information on the possible locations a piece of legislation can currently be passing through.

Usage

sen_bills_passage(bill_id = NULL, ascii = TRUE)

Arguments

bill_id integer. This number is the id given to each bill in the Senate database. For example, running sen_bills_current() will return a dataframe with the variable bill_id in the first column. These numbers can be used as this id.

ascii logical. If TRUE, strips Latin characters from strings.

Value

A tibble, of classes tbl_df, tbl and data.frame.

Author(s)

Robert Myles McDonnell, Guilherme Jardim Duarte & Danilo Freire.
Examples

\[
\text{sen\_bills\_passage(bill\_id = 9123)}
\]

\[
\text{sen\_bills\_passing}
\]

**Downloads and tidies information on legislation that is under consideration in the Federal Senate**

**Description**

Downloads and tidies information on legislation that is under consideration in the Federal Senate.

**Usage**

\[
\text{sen\_bills\_passing(}
\begin{align*}
\text{year} & = \text{NULL}, \\
\text{number} & = \text{NULL}, \\
\text{type} & = \text{NULL}, \\
\text{date} & = \text{NULL}, \\
\text{time} & = \text{NULL}
\end{align*}
\)

**Arguments**

- **year**: Format YYYY. Returns legislation from this year.
- **number**: bill number.
- **type**: type of legislation.
- **date**: date requested, format YYYYMMDD. Returns information on legislation on or after this time.
- **time**: Format hour-minute-second (HHmmSS). Returns information on legislation on or after this time.

**Value**

A tibble, of classes tbl\_df, tbl and data\_frame.

**Author(s)**

Robert Myles McDonnell, Guilherme Jardim Duarte & Danilo Freire.

**Examples**

\[
\text{sen\_bills\_passing()}
\]

# All MPVs (provisional presidential decrees) in 2001:
\[
\text{mpvs} \leftarrow \text{sen\_bills\_passing(year = "2001", type = "MPV")}
\]

# Bills from a certain date:
\[
\text{march01\_2017} \leftarrow \text{sen\_bills\_passing(date = 20170301)}
\]
sen_bills_situations  Downloads and tidies information on the possible situations a bill can be in

Description
Downloads and tidies information on the possible situations a bill can be in.

Usage
sen_bills_situations(ascii = TRUE)

Arguments
ascii  logical. If TRUE, strips Latin characters from strings.

Value
A tibble, of classes tbl_df, tbl and data.frame.

Author(s)
Robert Myles McDonnell, Guilherme Jardim Duarte & Danilo Freire.

Examples
sen_bills_situations()

sen_bills_status  Downloads and tidies information on legislation from the current legislature of the Federal Senate

Description
Downloads and tidies information on legislation from the current legislature of the Federal Senate.

Usage
sen_bills_status(bill_id = NULL, ascii = TRUE)

Arguments
bill_id  integer. This number is the id given to each bill in the Senate database. For example, running sen_bills_current() will return a dataframe with the variable bill_id in the first column. These numbers can be used as this id.
ascii  logical. If TRUE, strips Latin characters from strings.
Value
A tibble, of classes \texttt{tbl_df}, \texttt{tbl} and \texttt{data.frame}.

Author(s)
Robert Myles McDonnell, Guilherme Jardim Duarte & Danilo Freire.

Examples

\begin{verbatim}
\texttt{sen_bills_status(bill_id = 80406)}
\end{verbatim}

\begin{verbatim}
\texttt{sen_bills_topics(active = NULL, ascii = TRUE)}
\end{verbatim}

\begin{verbatim}
\texttt{sen_bills_topics} \quad \textit{Downloads and tidies information on the topics of legislation in the Federal Senate}
\end{verbatim}

Description
Downloads and tidies information on the topics of legislation in the Federal Senate.

Usage

\begin{verbatim}
\texttt{sen_bills_topics(active = NULL, ascii = TRUE)}
\end{verbatim}

Arguments

active character. Options are "Yes", "No" or \texttt{NULL}, the default. "Yes" returns active subtypes, "No" returns inactive subtypes, while the default returns both.

ascii logical. If \texttt{TRUE}, strips Latin characters from strings.

Value
A tibble, of classes \texttt{tbl_df}, \texttt{tbl} and \texttt{data.frame}.

Author(s)
Robert Myles McDonnell, Guilherme Jardim Duarte & Danilo Freire.

Examples

\begin{verbatim}
\texttt{top <- sen_bills_topics()}
\end{verbatim}
sen_bills_types

Downloads and tidies information on the types of legislation in the Federal Senate

Description

Downloads and tidies information on the types of legislation in the Federal Senate.

Usage

sen_bills_types(active = NULL, ascii = TRUE)

Arguments

active character. Options are "Yes", "No" or NULL, the default. "Yes" returns active types, "No" returns inactive types, while the default returns both.

ascii logical. If TRUE, strips Latin characters from strings.

Value

A tibble, of classes tbl_df, tbl and data.frame.

Author(s)

Robert Myles McDonnell, Guilherme Jardim Duarte & Danilo Freire.

Examples

legis <- sen_bills_types()

sen_bills_updates

Downloads and tidies information on bills that have been recently updated in the Federal Senate

Description

Downloads and tidies information on bills that have been recently updated in the Federal Senate.

Usage

sen_bills_updates(
  update = NULL,
  year = NULL,
  number = NULL,
  type = NULL,
  days = 5,
  ascii = TRUE
)


Arguments

update character. This is the type of update that can be applied to a bill. For a dataframe of these, use the sen_bills_update_types() function, and the variable update_name that is returned.

year character. Year of the bill, if a specific bill is requested. Format YYYY.

number bill number.

type type of legislation.

days integer. The number of days to consider when requesting information on recent updates. The maximum is 30 and the default is 5.

ascii logical. If TRUE, strips Latin characters from strings.

Value

A tibble, of classes tbl_df, tbl and data.frame.

Author(s)

Robert Myles McDonnell, Guilherme Jardim Duarte & Danilo Freire.

Examples

# Bills from 2014 that have had a "despacho" update in the last 15 days, if # they exist:

desp_2014 <- sen_bills_updates(update = "Despacho", year = 2014, days = 15)

# PLS bills that have been updated in the last 10 days, if they exist:
pls <- sen_bills_updates(type = "PLS", days = 10)
sen_bill_search

Value

A tibble, of classes tbl_df, tbl and data.frame, with variables:

- **update_name**: the name in the database for the type of update.
- **update_effects**: the type of item that is affected by the update. "MovimentacaoMateria" refers to the passage of the bill; "DetalheMateria" refers to the details of the bill itself; "RelatoriaMateria" refers to reports on the bill; "VotacaoMateria" refers to votes on the bill.

Author(s)

Robert Myles McDonnell, Guilherme Jardim Duarte & Danilo Freire.

Examples

sen_bills_update_types()

sen_bill_search

Search for data on legislation in the Brazilian Federal Senate

Description

Search for data on legislation in the Brazilian Federal Senate.

Usage

sen_bill_search(
  year = "",
  year_law = "",
  topic_id = "",
  situation_id = "",
  date_presented_init = "",
  date_presented_end = "",
  date_situation_init = "",
  date_situation_end = "",
  complementary = "",
  present = "",
  rapporteur = "",
  author = "",
  number = "",
  type = "",
  law_number = "",
  party_abbr_author = "",
  author_state = "",
  in_passage = "",
  ascii = TRUE
)
Arguments

- **year**: integer. Four-digit year, such as 2013.
- **year_law**: integer. Year of introduction of the law, such as 2013.
- **topic_id**: character. For a data frame of topic ids and their meanings, use `sen_bills_topics()`.
- **situation_id**: character.
- **date_presented_init**: character. Date when the bill that you're searching for was first presented. In the format YYYYYMDD.
- **date_presented_end**: character. See above.
- **date_situation_init**: character. See above.
- **date_situation_end**: character. See above.
- **complementary**: character. Either blank, "Yes", or "No".
- **present**: character. Either blank, "Yes", or "No"; an indicator for whether the bill is current or not.
- **rapporteur**: character. Name of the rapporteur of the bill, if known.
- **author**: character. Author/sponsor of the bill. For a list, use `sen_bill_sponsors()`.
- **number**: character. Bill number, if known.
- **type**: character. Bill type. For a data frame of possible bill types, run `sen_bills_types()`.
- **law_number**: character. Number of the law resulting from the bill, if known.
- **party_abbr_author**: character. The short text code for the party of the author of the bill. For a list of the parties, use `sen_parties()`.
- **author_state**: character. The state of the senator. For a full list, see `UF()`.
- **in_passage**: character. Either blank, "Yes", or "No".
- **ascii**: logical. If TRUE, certain strings are converted to ascii format.

Value

A tibble, of classes `tbl_df`, `tbl` and `data.frame`.

Author(s)

Robert Myles McDonnell, Guilherme Jardim Duarte & Danilo Freire.

Examples

```r
# search for legislation from 2014:

two14 <- sen_bill_search(year = 2014)
```
**Description**

Downloads and tidies data on the bill sponsors in the Federal Senate.

**Usage**

```r
sen_bill_sponsors(ascii = TRUE)
```

**Arguments**

- `ascii` (logical). If TRUE, bill sponsor names are converted to ascii format, stripping the latin characters from the names.

**Value**

A tibble, of classes `tbl_df`, `tbl` and `data.frame`, with variables:

- `sponsor_name`: identity of the bill sponsor.
- `sponsor_code`: code for senator bill sponsors.
- `sponsor_title`: title of bill sponsor.
- `sponsor_party`: party of bill sponsor.
- `sponsor_state`: state of bill sponsor.
- `quantity`: quantity of bills sponsored by this individual or entity.

**Author(s)**

Robert Myles McDonnell, Guilherme Jardim Duarte & Danilo Freire.

**Examples**

```r
bills <- sen_bill_sponsors()
```
**sen_budget**

*Downloads and tidies budget information from the Federal Senate*

**Description**

Downloads and tidies budget information from the Federal Senate.

**Usage**

```
sen_budget(ascii = TRUE)
```

**Arguments**

- **ascii** logical. If TRUE, certain strings are converted to ascii format.

**Value**

A tibble, of classes `tbl_df`, `tbl` and `data.frame`.

**Author(s)**

Robert Myles McDonnell, Guilherme Jardim Duarte & Danilo Freire.

**Examples**

```
bud <- sen_budget()
```

---

**sen_coalitions**

*Downloads and tidies data on the coalitions in the Federal Senate*

**Description**

Downloads and tidies data on the coalitions in the Federal Senate.

**Usage**

```
sen_coalitions(ascii = TRUE)
```

**Arguments**

- **ascii** logical. If TRUE, names are converted to ascii format.
Value

A tibble, of classes tbl_df, tbl and data.frame, with variables:

- `bloc_code`: unique code given to each coalition.
- `bloc_name`: name of the coalition.
- `bloc_label`: additional label for the coalition.
- `date_created`: POSIXct, date the coalition was created.

Author(s)

Robert Myles McDonnell, Guilherme Jardim Duarte & Danilo Freire.

Examples

```r
calitions <- sen_coalitions()
```

Description

Downloads and tidies data on specific coalitions in the Federal Senate.

Usage

`sen_coalition_info(code = NULL, ascii = TRUE)`

Arguments

- **code**: integer. Code of the coalition. If not known (the most likely case), these codes can be obtained from the `sen_coalitions()` function.
- **ascii**: logical. If TRUE, names are converted to ascii format.

Value

A tibble, of classes tbl_df, tbl and data.frame, with variables:

- `bloc_code`: unique code given to each coalition.
- `house`: legislative house for the coalition.
- `bloc_name`: name of the coalition.
- `bloc_label`: additional label for the coalition.
- `date_created`: POSIXct, date the coalition was created.
- `member_code`: party code.
- `member_date_joined`: POSIXct, date when the party first joined the coalition.
- `member_abbr`: party acronym.
- `member_name`: party name.
- `member_date_created`: POSIXct, date when the coalition was created.
Author(s)

Robert Myles McDonnell, Guilherme Jardim Duarte & Danilo Freire.

Description

Information on commissions in the Federal Senate.

Usage

sen_commissions(active = c("Yes", "No"), ascii = TRUE)

Arguments

active character. Options are "Yes" or "No". If "Yes", returns only active commissions, otherwise all commissions.

ascii logical. If TRUE, certain strings are converted to ascii format.

Details

Returns a data frame with the following variables:

- commission_id: unique code for each commission.
- commission_abbr: Abbreviated name of the commission.
- commission_name: Commission name.
- commission_purpose: Objective of the commission.
- commission_initial_date: Commission starting date.
- commission_public: Whether the commission is public or not.
- commission_house: Legislative house where the commission is based.
- commission_type: Permanent, temporary, or a parliamentary inquiry.

Value

A tibble, of classes tbl_df, tbl and data.frame.

Author(s)

Robert Myles McDonnell, Guilherme Jardim Duarte & Danilo Freire.

Examples

comms <- sen_commissions()
Description

Information on the senators who serve on a certain commission in the Federal Senate.

Usage

```
sen_commissions_senators(code = NULL, ascii = TRUE)
```

Arguments

code character. Character code (abbreviation) of the commission requested. A list of these may be obtained with `sen_commissions()`, although not all of the abbreviations in this data frame will return information.

ascii logical. If TRUE, certain strings are converted to ascii format.

Details

Returns a data frame with the following variables:

- `commission`: name of the commission.
- `commission_abbr`: abbreviated name of the commission.
- `senator_id`: unique code for each senator.
- `senator_name`
- `senator_party`
- `senator_state`

Value

A tibble, of classes `tbl_df`, `tbl` and `data.frame`.

Author(s)

Robert Myles McDonnell, Guilherme Jardim Duarte & Danilo Freire.

Examples

```r
# get info on the senators who serve on the CCJ commission:
ccj <- sen_commissions_senators(code = "CCJ")
```
sen_commissions_type

Information on commissions in the Federal Senate, by commission type.

Usage

```r
sen_commissions_type(type = c("permanent", "cpi", "temporary"), ascii = TRUE)
```

Arguments

type character. Options are permanent, cpi and temporary. See details.

ascii logical. If TRUE, certain strings are converted to ascii format.

Details

Returns a data frame with the following variables:

- commission_id: unique code for each commission.
- commission_name: name of the commission.
- commission_type: permanent commission, temporary, or a parliamentary inquiry *Comissão Parlamentar de Inquérito*.
- commission_house: Legislative house where the commission is based.
- active: Whether the commission is active or not.

Value

A tibble, of classes `tbl_df`, `tbl` and `data.frame`.

Author(s)

Robert Myles McDonnell, Guilherme Jardim Duarte & Danilo Freire.

Examples

```r
cpi <- sen_commissions_type(type = "permanent")
```
Description

Information on positions (jobs) that legislators may occupy in commissions in the Federal Senate.

Usage

```r
sen_commission_positions(active = c("Both", "Yes", "No"), ascii = TRUE)
```

Arguments

- `active` character. If "No", returns all positions, otherwise returns positions that are presently active.
- `ascii` logical. If TRUE, certain strings are converted to ascii format.

Details

Returns a data frame with the following variables:

- `comm_position_id`: unique code for each position.
- `comm_position`: name of the position.
- `comm_position_active`: whether the position is currently active or not.

Value

A tibble, of classes `tbl_df`, `tbl` and `data.frame`.

Author(s)

Robert Myles McDonnell, Guilherme Jardim Duarte & Danilo Freire.

Examples

```r
jobs <- sen_commission_positions(active = "No")
```
sen_nominal_votes  
Nominal votes in the Brazilian Federal Senate

Description
This is a dataset of the nominal votes in the Brazilian Federal Senate, from all those available on the API from 1991 onwards.

Usage
sen_nominal_votes

Format
A data frame with 60691 rows and 8 variables

Value
- vote_date: POSIXct, date the vote took place.
- bill_id: id of the bill in the Senate API database.
- bill: bill type, year and number.
- legislature: legislature number.
- senator_id: unique id of the senator.
- senator_name: the senator’s name.
- senator_vote: numeric vote cast. 1 = "yes"; 0 = "no", NA = other.
- senator_party: political party the senator was in when the vote took place.
- senator_state: state the senator represented when the vote took place.

Note
These data can easily be grouped by legislature if so desired, using the legislature variable.

sen_parties  
Downloads and tidies information on the parties in the Federal Senate

Description
Downloads and tidies information on the political parties in the Federal Senate.

Usage
sen_parties(ascii = TRUE)
Arguments

   ascii  logical. TRUE by default, removes latin-1 characters from returned object.

Value

A tibble, of classes tbl_df, tbl and data.frame.

Author(s)

Robert Myles McDonnell, Guilherme Jardim Duarte & Danilo Freire.

Examples

```r
party <- sen_parties()

# returns results from the plenary in the Federal Senate for a specified date

sen_plenary_agenda(period = "month", date = "20140315")
# or from the first of April 2016:
.sessions <- sen_plenary_agenda(period = "day", date = "20160401")
```

Description

Returns results from the plenary in the Federal Senate for a specified date.

Usage

```r
sen_plenary_agenda(period = c("month", "day"), date = NULL, ascii = TRUE)
```

Arguments

   period  character. If "month" is selected, all information available from the date specified with date to the end of the month is returned. Otherwise, information returned from the day of date only is returned.

   date  character. Format YYYYMMDD.

   ascii  logical. If TRUE, the default, strips Latin characters from the results.

Value

A tibble, of classes tbl_df, tbl and data.frame.

Author(s)

Robert Myles McDonnell, Guilherme Jardim Duarte & Danilo Freire.

Examples

```r
# get info from the second half of March 2014:
sessions <- sen_plenary_agenda(period = "month", date = "20140315")
# or from the first of April 2016:
sessions <- sen_plenary_agenda(period = "day", date = "20160401")
```
sen_plenary_leaderships

Returns information on leaderships in the Federal Senate

Description
Returns information on leaderships in the Federal Senate.

Usage
sen_plenary_leaderships(parties = TRUE, ascii = TRUE)

Arguments
- parties: logical. Returns information on party leadership in the Senate when TRUE, otherwise returns information on coalitions.
- ascii: logical. If TRUE, the default, strips Latin characters from the results.

Value
A tibble, of classes tbl_df, tbl and data.frame.

Author(s)
Robert Myles McDonnell, Guilherme Jardim Duarte & Danilo Freire.

Examples
party_leaders <- sen_plenary_leaderships()

sen_plenary_result

Returns results from the plenary in the Federal Senate for a specified date

Description
Returns results from the plenary in the Federal Senate for a specified date.

Usage
sen_plenary_result(date = NULL, ascii = TRUE)

Arguments
- date: character. Format YYYYMMDD.
- ascii: logical. If TRUE, the default, strips Latin characters from the results.
sen_plenary_sessions

Value

A tibble, of classes tbl_df, tbl and data.frame.

Author(s)

Robert Myles McDonnell, Guilherme Jardim Duarte & Danilo Freire.

Examples

# get info for the 3rd of March 2016:
x <- sen_plenary_result(date = "20160303")
# Earlier periods may not have information:

sen_plenary_result(date = "20110405")

sen_plenary_sessions

*Returns the types of sessions in the Federal Senate*

Description

Returns the types of sessions in the Federal Senate.

Usage

sen_plenary_sessions(active = c("Yes", "No"), ascii = TRUE)

Arguments

active . Default "Yes", which returns session types which are still used. Otherwise, returns all types of sessions.

ascii logical. If TRUE, the default, strips Latin characters from the results.

Value

A tibble, of classes tbl_df, tbl and data.frame.

Author(s)

Robert Myles McDonnell, Guilherme Jardim Duarte & Danilo Freire.

Examples

sessions <- sen_plenary_sessions()
Description

Downloads and tidies personal information on senators from the Federal Senate.

Usage

```r
sen_senator(
  id = NULL,
  affiliations = TRUE,
  mandates = TRUE,
  absences = FALSE,
  ascii = TRUE
)
```

Arguments

- `id` integer. Unique id for a senator. A dataframe of these is available from `sen_senator_list()`.
- `affiliations` logical. If TRUE, the default, returns information on party affiliation.
- `mandates` logical. If TRUE, the default, returns information on terms served by the senator.
- `absences` logical. If TRUE, returns information on leaves of absence taken by the senator.
- `ascii` logical. If TRUE, certain strings are converted to ascii format.

Value

A tibble, of classes `tbl_df`, `tbl` and `data.frame`.

Note

Setting `affiliations`, `mandates` and particularly `absences` to TRUE will result in a rather bloated data frame.

Author(s)

Robert Myles McDonnell, Guilherme Jardim Duarte & Danilo Freire.
Examples

benedito <- sen_senator(id = 3823)
aecio <- sen_senator(id = 391, absences = TRUE)
juc <- sen_senator(73)

Description

Downloads and tidies information on bills that certain senators have sponsored/authored in the Federal Senate.

Usage

sen_senator_bills(id = 0, ascii = TRUE)

Arguments

id integer. This number represents the id of the senator you wish to get information on. These ids can be extracted from the API using the sen_senator_list() function, where they will appear as the first column in the data frame returned, under the name 'id'.

ascii logical. If TRUE, certain strings are converted to ascii format.

Value

A tibble, of classes tbl_df, tbl and data.frame.

Author(s)

Robert Myles McDonnell, Guilherme Jardim Duarte & Danilo Freire. Ataides <- sen_senator_bills(id = 5164)

See Also

sen_senator_list()
**sen_senator_commissions**

*Downloads and tidies information on the commissions on which senators have served or are serving in the Federal Senate*

**Description**

Downloads and tidies information on the commissions on which senators have served or are serving in the Federal Senate.

**Usage**

```r
sen_senator_commissions(id = 0, ascii = TRUE)
```

**Arguments**

- `id` integer. This number represents the id of the senator you wish to get information on. These ids can be extracted from the API using the `sen_senator_list()` function, where they will appear as the first column in the data frame returned, under the name 'id'.
- `ascii` logical. If TRUE, certain strings are converted to ascii format.

**Value**

A tibble, of classes `tbl_df`, `tbl` and `data.frame`.

**Author(s)**

Robert Myles McDonnell, Guilherme Jardim Duarte & Danilo Freire. Armando <- sen_senator_commissions(id = 715)

**See Also**

`sen_senator_list()`

---

**sen_senator_details**

*Downloads and tidies personal information on the senators in the Federal Senate*

**Description**

Downloads and tidies personal information on the senators in the Federal Senate.

**Usage**

```r
sen_senator_details(id = 0, ascii = TRUE)
```
**Arguments**

- **id** integer. This number represents the id of the senator you wish to get information on. These ids can be extracted from the API using the `sen_senator_list()` function, where they will appear as the first column in the data frame returned, under the name 'id'.
- **ascii** logical. If TRUE, certain strings are converted to ascii format.

**Value**

A tibble, of classes tbl_df, tbl and data.frame.

**Author(s)**

Robert Myles McDonnell, Guilherme Jardim Duarte & Danilo Freire. Acir_G <- sen_senator_details(id = 4981)

**See Also**

`sen_senator_list()`

---

**sen_senator_legis** *Downloads and tidies information on the senators in the Federal Senate*

**Description**

Downloads and tidies information on the senators in the Federal Senate.

**Usage**

```r
sen_senator_legis(
  start = NULL,
  end = NULL,
  state = NULL,
  status = NULL,
  ascii = TRUE
)
```

**Arguments**

- **start** two-digit integer representing the first legislature of the time period requested.
- **end** two-digit integer representing the final legislature of the time period requested.
- **state** character. Two-letter abbreviation of Brazilian state. A list of these is available with the function `UF()`.
- **status** character, either "T" or "S", representing titular or suplente (stand-in senator), respectively.
- **ascii** logical. If TRUE, strips Latin characters from strings.
**sen_senator_list**

**Value**

A tibble, of classes `tbl_df`, `tbl` and `data.frame`.

**Author(s)**

Robert Myles McDonnell, Guilherme Jardim Duarte & Danilo Freire.

**Examples**

```r
all <- sen_senator_legis(start = 50)
```

---

**sen_senator_list**  
*Downloads and tidies information on the senators in the Federal Senate*

**Description**

Downloads and tidies information on the senators in the Federal Senate.

**Usage**

```r
sen_senator_list(present = TRUE, state = NULL, status = NULL, ascii = TRUE)
```

**Arguments**

- `present` logical. If TRUE, downloads data on the legislature currently sitting in the Federal Senate, otherwise returns information on senators who are currently absent.
- `state` character. Two-letter abbreviation of Brazilian state. A list of these is available with the function `UF()`.
- `status` character, either "T" or "S", representing *titular* or *suplente* (stand-in senator), respectively.
- `ascii` logical. If TRUE, strips Latin characters from strings.

**Value**

A tibble, of classes `tbl_df`, `tbl` and `data.frame`.

**Author(s)**

Robert Myles McDonnell, Guilherme Jardim Duarte & Danilo Freire.
**Examples**

```r
call <- sen_senator_list()
# Who represents Rio de Janeiro?
rj <- sen_senator_list(state = "RJ")
```

---

**sen_senator_mandates**  
*Downloads and tidies information on senators’ mandates in the Federal Senate*

---

**Description**

Downloads and tidies information on senators’ mandates in the Federal Senate.

**Usage**

```r
sen_senator_mandates(id = 0, ascii = TRUE)
```

**Arguments**

- **id** integer. This number represents the id of the senator you wish to get information on. These ids can be extracted from the API using the `sen_senator_list()` function, where they will appear as the first column in the data frame returned, under the name 'id'.
- **ascii** logical. If TRUE, certain strings are converted to ascii format.

**Value**

A tibble, of classes `tbl_df`, `tbl` and `data.frame`.

**Author(s)**

Robert Myles McDonnell, Guilherme Jardim Duarte & Danilo Freire.

**See Also**

`sen_senator_list()`

**Examples**

```r
terms <- sen_senator_mandates(id = 4763)
terms <- sen_senator_mandates(id = 3398)
```
**sen_senator_suplentes**  
*Downloads and tidies information on titular senators and their suplentes in the Federal Senate*

**Description**

Downloads and tidies information on titular senators and their *suplentes* in the Federal Senate.

**Usage**

```r
sen_senator_suplentes(id = 0, ascii = TRUE)
```

**Arguments**

- `id` integer. This number represents the id of the senator you wish to get information on. These ids can be extracted from the API using the `sen_senator_list()` function, where they will appear as the first column in the data frame returned, under the name 'id'.

- `ascii` logical. If TRUE, certain strings are converted to ascii format.

**Value**

A tibble, of classes `tbl_df`, `tbl` and `data.frame`.

**Author(s)**

Robert Myles McDonnell, Guilherme Jardim Duarte & Danilo Freire.

**See Also**

`sen_senator_list()`

**Examples**

```r
# A titular senator, José Serra:
Serra <- sen_senator_suplentes(id = 90)

# Or one of his suplentes:
suplente <- sen_senator_suplentes(id = 878)
```
Description

Downloads and tidies information on senators’ votes in the Federal Senate.

Usage

```r
sen_senator_votes(id = 0, ascii = TRUE)
```

Arguments

- **id** integer. This number represents the id of the senator you wish to get information on. These ids can be extracted from the API using the `sen_senator_list()` function, where they will appear as the first column in the data frame returned, under the name ’id’.
- **ascii** logical. If TRUE, certain strings are converted to ascii format.

Value

A tibble, of classes `tbl_df`, `tbl` and `data.frame`.

Author(s)

Robert Myles McDonnell, Guilherme Jardim Duarte & Danilo Freire.

See Also

`sen_senator_list()`

Examples

```r
ant <- sen_senator_votes(id = 5529)

# some have never voted, as they are suplentes:
sen_senator_votes(898)
```
sen_sponsor_types

Downloads and tidies data on the types of bill sponsors in the Federal Senate.

Usage

sen_sponsor_types(ascii = TRUE)

Arguments

ascii (logical). If TRUE, bill sponsor names are converted to ascii format, stripping the latin characters from the names.

Value

A tibble, of classes tbl_df, tbl and data.frame, with variables:

• sponsor_abbr: Abbreviation of sponsor type name.
• sponsor_name: Sponsor type name.

Author(s)

Robert Myles McDonnell, Guilherme Jardim Duarte & Danilo Freire.

Examples

types <- sen_sponsor_types()

sen_statement_list

Downloads and tidies information on the types of declarations senators can make in the Federal Senate.

Usage

sen_statement_list(ascii = TRUE, print = TRUE)
**sen_votes**

**Arguments**

- `ascii` logical. TRUE by default, removes latin-1 characters from returned object.
- `print` logical. If TRUE (the default), prints the dataframe to the console.

**Value**

A tibble, of classes `tbl_df`, `tbl` and `data.frame`.

**Author(s)**

Robert Myles McDonnell, Guilherme Jardim Duarte & Danilo Freire.

**Examples**

```r
st <- sen_statement_list()
```

---

**Description**

Returns voting information from the Senate floor for the date requested.

**Usage**

```r
sen_votes(date = NULL, end_date = NULL, binary = TRUE, ascii = TRUE)
```

**Arguments**

- `date` character or integer. Format YYYYMMDD.
- `end_date` character or integer. Format YYYYMMDD. If `end_date` is supplied, information on all votes between the initial date (`date`) and `end_date` is returned. See the notes below.
- `binary` logical. If TRUE, the default, transforms votes into 1 for "yes", 0, for "no" and NA for everything else. If FALSE, returns a character vector of vote decisions.
- `ascii` logical. If TRUE, the default, strips Latin characters from the results.

**Value**

A tibble, of classes `tbl_df`, `tbl` and `data.frame`.

**Note**

The maximum period allowed by the API is currently 60 days. If the period requested is larger than this, an error message is returned. For a full set of votes for each legislature, see data("senate_nominal_votes").
**sen_votes_year**

Description

Returns voting information from the Senate floor for the year requested.

Usage

```r
sen_votes_year(year, ascii = T, binary = T)
```

Arguments

- **year**: character or integer. Format YYYY
- **ascii**: logical. If TRUE, the default, strips Latin characters from the results.
- **binary**: logical. If TRUE, the default, transforms votes into 1 for "yes", 0, for "no" and NA for everything else. If FALSE, returns a character vector of vote decisions.

Value

A tibble, of classes tbl_df, tbl and data.frame.

Author(s)

Robert Myles McDonnell, Guilherme Jardim Duarte & Danilo Freire.

Examples

```r
sen_votes_year("2013")
```
sen_votes_year_file

Returns voting information from the Senate floor for the year requested using xml file method

Description

Returns voting information from the Senate floor for the year requested (Only available from 1991 through 2017).

Usage

sen_votes_year_file(year = NULL, binary = TRUE, ascii = TRUE)

Arguments

year character or integer. Format YYYY
binary logical. If TRUE, the default, transforms votes into 1 for "yes", 0, for "no" and NA for everything else. If FALSE, returns a character vector of vote decisions.
ascii logical. If TRUE, the default, strips Latin characters from the results.

Value

A tibble, of classes tbl_df, tbl and data.frame.

Author(s)

Robert Myles McDonnell, Guilherme Jardim Duarte & Danilo Freire.

Examples

sen_votes_year_file("2013")

statesBR

A dataframe of Brazilian states, by their sigla (acronym) and full name.

Description

• UF character. Acronyms of Brazilian states.
• Name character. Full names of Brazilian states.
vote_to_rollcall

Usage

statesBR

Format

A data frame with 27 rows and 2 variables

| UF       | A list of state abbreviations for use with the functions of congressbr. |

Description

This function prints out a character vector of Brazilian state abbreviations to the console.

Usage

UF()

Note

This is most useful if you already have an idea of what state you want and its abbreviation. If not, to see the full dataset, use data("statesBR"), which has the abbreviation, "UF" (Unidade Federal) and the full name of the states.

Author(s)

Robert Myles McDonnell, Guilherme Jardim Duarte & Danilo Freire.

Examples

UF()

vote_to_rollcall

Create rollcall or matrix format data structures from voting records

Description

Returns votes from the Senate or Chamber of Deputies in a format that can be easily used with other R packages (wnominate, pscl, MCMCpack) or with other modelling languages such as JAGS.

Usage

vote_to_rollcall(votes = NULL, legislators = NULL, bills = NULL, ideal = TRUE)
vote_to_rollcall

Arguments

voters integer. The recorded nominal votes. Must be in the format 1, 0, where 1 indicates a 'Yes' vote, 0 a 'No' vote. Missing values must be NA. All of the votes, legislators and bills parameters must be vectors.

legislators This may be a vector of legislator names or id numbers.

bills A vector of bill numbers or ids.

ideal If TRUE, the default, returns a rollcall object for use with pscl and/or wnominate. If FALSE, returns a matrix suitable for use with MCMCpack or the JAGS modelling language.

Author(s)

Robert Myles McDonnell, Guilherme Jardim Duarte & Danilo Freire.

Examples

# get votes:
data(sen_nominal_votes)
votes <- sen_nominal_votes %>%
dplyr::filter(vote_date >= "2005-03-01", vote_date <= "2007-12-15")
rc <- vote_to_rollcall(votes$senator_vote,
    legislators = votes$senator_name,
    bills = votes$bill_id)
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