

Package ‘stortingscrape’

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Type Package

Title Access Data from the Norwegian Parliament API

Version 0.3.0

Description Functions for retrieving general and specific data from the Norwegian Parliament, through the Norwegian Parliament API at <<https://data.stortinget.no>>.

URL <https://github.com/martigso/stortingscrape>,
<https://martigso.github.io/stortingscrape/>

BugReports <https://github.com/martigso/stortingscrape/issues>

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cases	<i>Storting cases in the 2019-2020 session</i>
-------	--

Description

A dataset containing all cases of the 2019-2020 parliamentary session in *Stortinget*

Usage

cases

Format

A list with four elements

\$root main data on the MP

\$topics named list by case id

\$proposers named list by case id

\$spokespersons named list by case id

Further description: [get_session_cases](#)

Source

<https://data.stortinget.no/eksport/saker?sesjonid=2019-2020>

covid_relief	<i>Vote id 85196</i>
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Description

A dataset containing all vote information on case id 85196

Usage

covid_relief

Format

A data frame with 22 columns and 71 rows

response_date Date of data retrieval

version Data version from the API

case_id Case id up for vote

alternative_vote Whether vote is an alternative vote

n_for Number of votes for
n_absent Number of MPs absent
n_against Number of votes against
treatment_order Order of treated votes
agenda_case_number Case number on the agenda of the meeting
free_vote Logical indication of whether the vote is related to the case as a whole
comment Vote comment
meeting_map_number Number on the meeting map
personal_vote Logical indication of whether vote was recorded as roll call or not
president_id Id of president holding president chair at the time of voting
president_party_id Party of the sitting president
adopted Logical indication of whether the proposal voted on was adopted
vote_id Id of vote
vote_method Voting method
vote_result_type Result type (enstemmig_vedtatt = unanimously adopted)
vote_result_type_text See **vote_result_type**
vote_topic Description of the proposal voted upon
vote_datetime Date and time of vote

Source

<https://data.stortinget.no/eksport/voteringer?sakid=85196>

covid_relief_result *Vote id 85196 results*

Description

A dataset containing vote matrix on vote id 17689

Usage

```
covid_relief_result
```

Format

A data frame with 8 columns and 169 rows

response_date Date of data retrieval

version Data version from the API

vote_id Id of vote

mp_id MP id

party_id Party id

vote Vote: for, mot (against), ikke_tilstede (absent)

permanent_sub_for Id of the MP originally holding the seat, if the substitute is

sub_for Id of the MP originally holding the seat

Source

<https://data.stortinget.no/eksport/voteringsresultat?voteringid=17689>

get_all_committees *Parliamentary committees over all sessions*

Description

Imports data on all committee names and ids over all sessions in the data.stortinget.no API.

Usage

```
get_all_committees()
```

Value

A data frame of committees, with the variables:

response_date	Date of data retrieval
version	Data version from the API
id	Id of the committee
name	Name of the committee
sessionid	Id of session (empty)

See Also

[get_session_committees](#)

Examples

```
## Not run:  
coms <- get_all_committees()  
head(coms)  
  
## End(Not run)
```

get_all_parties *All parliamentary parties*

Description

A function for retrieving all Norwegian parliamentary parties in the data.stortinget.no API.

Usage

```
get_all_parties()
```

Value

A data.frame of all parties, with the variables:

response_date	Date of data retrieval
version	Data version from the API
id	Id of the party
name	Name of the party
represented_party	Whether the party is represented at the time of download
sessionid	Id of session (empty)
period_id	Id of parliamentary period (empty)

See Also

[get_session_parties](#)

Examples

```
## Not run:  
parties <- get_all_parties()  
head(parties)  
  
## End(Not run)
```

get_case *Retrieve a parliamentary case*

Description

A function for retrieving single parliamentary case by id.

Usage

```
get_case(caseid = NA, good_manners = 0)
```

Arguments

caseid	Character string indicating the id of the case to request
good_manners	Integer. Seconds delay between calls when making multiple calls to the same function

Value

A list with seven data frame elements:

1. **\$root** (main data on the case)

response_date	Date of data retrieval
version	Data version from the API
document_group	Case document group type
finalized	Whether the case finalized
reference	Relevant publication references
id	Case id
req_text	Recommendation (proposal) text
committee_id	Id of committee handling the case
title_short	Case short title
decision_short	Case decision_short
parenthesis_text	Case parenthesis text
case_number	Case number
session_id	Session id
proceedings_id	Type of proceeding id
proceedings_name	Type of proceeding name
status	Status for case
title	Case title (long)
type	Case type
decision_text	Decision text

2. **\$topic** (the topics related to the case)

is_main_topic	Is this (row) the main topic?
main_topic_id	Id for main topic
id	Topic id
navn	Topic name

3. **\$publication_references** (references for publications on the case)

export_id	Id for export of publication (used in ?get_publication)
link_text	Publication title
link_url	URL to publication
type	Publication type
subtype	Publication subtype (chamber)

4. \$proposers (MPs behind case proposal, when relevant)

mp_id	MPs id
party_id	Party id of MPs
sub_mp	Whether MPs are substitutes

5. \$proceeding_steps (case proceeding steps)

step_name	Name of steps
step_number	Step order for case
outdated	Whether the step type is outdated

6. \$spokespersons (all MPs that are spokespersons for the case)

mp_id	MPs id
party_id	Party id of MPs
sub_mp	Whether MPs are substitutes

7. \$keywords (all keywords associated with the case)

keyword	Keywords for the case
----------------	-----------------------

See Also

[get_session_cases](#)

Examples

```
## Not run:

# Get one case
case <- get_case("30233")
case
```



```

# Get multiple cases
cases <- lapply(c("30233", "30362", "30234", "30236"), get_case, good_manners = 2)
cases_root <- lapply(cases, function(x) x$root)
cases_root <- do.call(rbind, cases_root)
cases_root

cases_keywords <- lapply(1:nrow(cases_root), function(x){
  tmp <- cases[[x]]$keywords
  tmp$case_id <- cases_root$id[x]
  return(tmp)
})
cases_keywords <- do.call(rbind, cases_keywords)
cases_keywords

## End(Not run)

```

get_counties	<i>Get list of electoral districts</i>
--------------	--

Description

A function for retrieving current and/or historical electoral districts (counties) for the Norwegian parliament.

Usage

```
get_counties(historical = FALSE)
```

Arguments

historical Logical. Whether or not to include historical counties.

Value

A data frame with the following variables:

response_date	Date of data retrieval
version	Data version from the API
historical_county	Whether the county is historical (no longer exists)
id	Id of the county
name	Name of the county

Examples

```
## Not run:
```

```
# Request one MP by id
get_counties()

# With historical counties
get_counties(historical = TRUE)

## End(Not run)
```

get_decision_votes *Retrive vote decision for a specified vote*

Description

A function for retrieving vote decisions from a specific vote. Vote data are only available from the 2011-2012 session

Usage

```
get_decision_votes(voteid = NA, good_manners = 0)
```

Arguments

voteid	Character string indicating the id of the vote to request all votes from
good_manners	Integer. Seconds delay between calls when making multiple calls to the same function

Value

A data.frame with the following variables:

response_date	Date of data retrieval
version	Data version from the API
vote_id	Id of the vote
decision_code	General code for decision
decision_comment	Comments for the decision
decision_number	Decision number
decision_reference	Reference for the decision
decision_text	Full text of the decision

See Also

[get_session_decisions](#) [get_proposal_votes](#) [get_vote](#) [get_result_vote](#)

Examples

```
## Not run:
decision <- get_decision_votes(123)
decision

## End(Not run)
```

get_hearing_input *Retrieve the hearing input for a specified hearing*

Description

A function for retrieving the hearing input for a specified hearing.

Usage

```
get_hearing_input(hearingid = NA, good_manners = 0)
```

Arguments

hearingid	Character string indicating the id of the hearing to retrieve.
good_manners	Integer. Seconds delay between calls when making multiple calls to the same function

Value

A data.frame the following variables:

response_date	Date of data retrieval
version	Data version from the API
hearing_id	Id of the hearing
hearing_type	Type of hearing
committee_id	Id of committee responsible for the hearing
hearing_input_date	Date of receiving input
hearing_input_id	Hearing input id
hearing_input_organization	Organization giving input
hearing_input_text	Full text of the hearing input
hearing_input_title	Title of the hearing input

See Also

[get_session_hearings](#) [get_hearing_program](#) [get_written_hearing_input](#)

Examples

```
## Not run:
get_hearing_input(hearingid = 10004166)

## End(Not run)
```

get_hearing_program *Retrieve the hearing program for a specified hearing*

Description

A function for retrieving the hearing program for a specified hearing. The earlier periods (around 2005 and back) are less rich with data on some variables

Usage

```
get_hearing_program(hearingid = NA, good_manners = 0)
```

Arguments

hearingid	Character string indicating the id of the hearing to retrieve.
good_manners	Integer. Seconds delay between calls when making multiple calls to the same function

Value

A data.frame with the following variables:

response_date	Date of data retrieval
version	Data version from the API
hearing_id	Id of the hearing
hearing_type	Type of hearing
committee_id	Id of committee responsible for the hearing
hearing_program_date	Date hearing program
hearing_program_footnote	Footnote for hearing program
order_number	Order number for the hearing program element
text	Description of the hearing participant
time_indication	Time stamp for participant hearing input
date	Date of participant input in hearing

See Also

[get_session_hearings](#) [get_hearing_input](#) [get_written_hearing_input](#)

Examples

```
## Not run:
s0910 <- get_session_hearings("2009-2010")
hearing <- get_hearing_program(s0910$hearing$hearing_id[1])
head(hearing)

## End(Not run)
```

get_meeting_agenda *Retreive agenda for a specified meeting*

Description

A function for retrieving the agenda for a specific meeting.

Usage

```
get_meeting_agenda(meetingid = NA, good_manners = 0)
```

Arguments

meetingid	Character string indicating the id of the meeting to request all votes from
good_manners	Integer. Seconds delay between calls when making multiple calls to the same function

Value

A data.frame with the following variables:

response_date	Date of data retrieval
version	Data version from the API
agenda_number	The agenda number for the session
meeting_date	Date of the meeting
meeting_id	Meeting id
meeting_place	Where the meeting was held
agenda_case_reference	Reference for the case on the agenda
agenda_case_number	Case number
agenda_case_text	Case description
agenda_case_type	Case type
footnote	Footnote for the case
proposition_id	If relevant, belonging proposition id
committee_id	If relevant, id of the responsible committee
loose_proposals	Whether there are loose proposals to the case
case_id	Id of the case

question_hour_type	If relevant, type of question hour
question_id	If relevant, question id

See Also

[get_session_meetings](#) [get_case](#) [get_question](#) [get_question_hour](#)

Examples

```
## Not run:

meetings0910 <- get_session_meetings("2009-2010")
meeting_agenda <- get_meeting_agenda(meetings0910$meeting_id[161])
meeting_agenda

## End(Not run)
```

get_mp

Extract information on specific MPs

Description

A function for retrieving information on Norwegian MPs from the parliament API

Usage

```
get_mp(mpid = NA, good_manners = 0)
```

Arguments

mpid	Character string indicating the id of the MP to retrieve.
good_manners	Integer. Seconds delay between calls when making multiple calls to the same function

Value

A data.frame with the following variables:

response_date	Date of data retrieval
version	Data version from the API
death	MP date of death, if applicable
last_name	MP last name
birth	MP date of birth
first_name	MP first name
id	MP id
gender	MP gender

See Also

[get_mp_bio](#) [get_parlperiod_mps](#) [get_mp_pic](#) [get_session_mp_speech_activity](#)

Examples

```
## Not run:
# Request one MP by id
get_mp("AAMH")

# Request several MPs by id
ids <- c("AAMH", "AMSK", "MAAA")

mps <- lapply(ids, get_mp, good_manners = 2)

mps <- do.call(rbind, mps)

## End(Not run)
```

get_mp_bio

Extract biography of specific MPs

Description

A function for retrieving biography of Norwegian MPs from the parliament API

Usage

```
get_mp_bio(mpid = NA, good_manners = 0)
```

Arguments

mpid	Character string indicating the id of the MP to retrieve.
good_manners	Integer. Seconds delay between calls when making multiple calls to the same function

Value

A list with ten data frames:

1. **\$root** (main data on the MP)

response_date	Date of data retrieval
version	Data version from the API
id	Id of the MP

2. **\$literature** (all literature the MP contributed to)

year	Year of entry publication
description	Description of the publication
last_name	MP's last name
more_years	Not described in the API
publisher	Publisher
first_name	First name of the MP
place	Place of publication
title	Title of the publication
type	MP's role in publication (author etc)

3. **\$leave_of_absence** (times the MP was on leave)

from_date	Start date of leave
reason	Reason for leave
to_date	End of leave
type	Type of leave
sub_last_name	Substitute MP last name (id not recorded)
sub_first_name	Substitute MP first name

4. **\$personalia** (the MP's personalia)

seniority_aar	Number of years in parliament
seniority_dager	Number of extra days (addition to years)
county_of_birth	Birth county of the MP
municipality_of_birth	Birth municipality of the MP
eulogy_date	Eulogy date of the MP, when applicable

5. **\$father** (the MP's father personalia)

death_year	Father's year of death
last_name	Father's last name
birth_year	Father's year of birth
first_name	Father's first name
profession	Father's profession

6. **\$mother** (the MP's mother personalia)

death_year	Mother's year of death
last_name	Mother's last name
birth_year	Mother's year of birth
first_name	Mother's first name
profession	Mother's profession

7. **\$parl_periods** (parliamentary periods the MP has held a seat)

from_date	Date MP held seat from
county	County the MP represented
party_id	Party id for the MP's party
rep_number	Representative number (within the whol parliament)
parl_period_id	Id of the parliamentary period
to_date	Date MP held a seat to
type	Type of representation

8. **\$parl_positions** (parliamentary positions held by the MP)

from_year	Year MP held position from
from_date	Date MP held position from
committee_id	Id of the position (in committee, cabinet, delegation, etc)
committee_name	Position name
committee_type	Position type
sorting	Not described in the API
parl_period_id	Parliamentary period the position was held (cabinet data missing)
to_year	Year MP held position to
to_date	Date MP held position to

9. **\$vocation** (vocation and education of the MP outside of parliament)

several_periods_text	Text description if the vocation was held for several periods
from_year	Year MP held vocation from
from_year_unknown	Logical indication for whether the start year is unknown
note	Note for vocation
name	Name of vocation
to_year	Year MP held vocation to
to_year_unknown	Logical indication for whether the end year is unknown
type	Vocation type (10 = education, 20 = work)

10. **\$other_positions** (other positions held outside parliament)

several_periods_text	Text description if the vocation was held for several periods (removed from API)
from_year	Year MP held vocation from
from_year_sorting	Not described in API (removed from API)
from_year_unknown	Logical indication for whether the start year is unknown
max_to_year	The last possible time the MP held the position (removed from API)
note	Note for position
min_to_year	The earliest possible time the MP held the position (removed from API)
level	Not described in API
organization	Organization holding the position
place	Place of the position
to_year	Year MP held position to
to_year_unknown	Logical indication for whether the end year is unknown
type	Position type
position	Position name/description

See Also

[get_mp](#) [get_parlperiod_mps](#) [get_mp_pic](#) [get_session_mp_speech_activity](#)

Examples

```
## Not run:

# Request one MP by id
get_mp_bio("AAMH")

## End(Not run)
```

get_mp_pic

Retrieve picture of specific MPs

Description

A function for retrieving Norwegian MP pictures by id.

Usage

```
get_mp_pic(mpid = NA, size = "middels",
           destfile = NA, show_plot = FALSE,
           good_manners = 0)
```

Arguments

mpid	Character string indicating the id of the MP to retrieve.
size	Character string size of the picture. Accepts values "lite" (small), "middels" (medium – default), and "stort" (big).
destfile	Character string specifying where to save the picture
show_plot	Logical. FALSE (default) if no plot should be produced and TRUE if plot should be produced. Requires the "imager" package.
good_manners	Integer. Seconds delay between calls when making multiple calls to the same function

Value

Picture of the requested MP in the preferred size.

See Also

[get_mp](#) [get_parlperiod_mps](#) [get_mp_bio](#)

Examples

```
## Not run:
# Request one MP by id
get_mp_pic(mpid = "AAMH", destfile = "~/Pictures/AAMH.jpeg", show_plot = TRUE, size = "stort")

# With good manners for multiple calls
lapply(c("AAMH", "CIH", "TKF"), function(x){
  get_mp_pic(mpid = x, destfile = paste0("~/Pictures/", x),
    show_plot = TRUE, size = "stort", good_manners = 2)
})

## End(Not run)
```

get_parlperiods

Get Parliamentary Periods

Description

A function for retrieving dates of the parliamentary periods after WWII

Usage

```
get_parlperiods()
```

Value

A data.frame with the following variables:

response_date	Date of data retrieval
version	Data version from the API
from	Date session started
id	Id of for session (used for other functions)
to	Date session ended
years	From year to year in full format

See Also

[get_parsessions](#)

Examples

```
## Not run:

parlper <- get_parlperiods()
parlper

## End(Not run)
```

get_parlperiod_mps *Get list of MPs in a given parliamentary period*

Description

A function for retrieving Norwegian MPs for a given parliamentary period from the parliament API

Usage

```
get_parlperiod_mps(periodid = NA, substitute = FALSE, good_manners = 0)
```

Arguments

periodid	Character string indicating the id of the parliamentary period to retrieve.
substitute	Logical. Whether or not to include substitute MPs.
good_manners	Integer. Seconds delay between calls when making multiple calls to the same function

Value

A data.frame with the following variables:

response_date	Date of data retrieval
version	Data version from the API
death	Date of death
lastname	MP last name
birth	Date of birth
firstname	MP first name
mp_id	MP id
gender	MP gender
county_id	Id of county MP represented
party_id	Id of party MP represented
substitute_mp	Logical for whether MP is a substitute
period_id	Id of period represented in

See Also

[get_mp_bio](#) [get_mp](#) [get_mp_pic](#) [get_session_mp_speech_activity](#)

Examples

```
## Not run:

# Request one MP by id
get_parlperiod_mps("2005-2009")

# Request MPs from several periods by id
ids <- c("1961-65", "1997-01", "2009-2013")
mps <- lapply(ids, get_parlperiod_mps, good_manners = 2)
mps <- do.call(rbind, mps)

## End(Not run)
```

```
get_parlperiod_presidency
```

Get list of presidency in a given parliamentary period

Description

A function for retrieving the presidency for a given parliamentary period from the parliament API.

Usage

```
get_parlperiod_presidency(periodid = NA, good_manners = 0)
```

Arguments

periodid	Character string indicating the id of the parliamentary period to retrieve.
good_manners	Integer. Seconds delay between calls when making multiple calls to the same function

Value

A data.frame with the following variables:

response_date	Date of data retrieval
version	Data version from the API
last_name	Last name of presidency member
first_name	First name of presidency member
from_date	Presidency member from date
party_id	Party affiliation of presidency member
person_id	Id of the presidency member
to_date	Presidency member to date
position	Presidency position

See Also

[get_mp](#) [get_mp_bio](#)

Examples

```
## Not run:

# Request one MP by id
get_parlperiod_presidency("2005-2009")

## End(Not run)
```

get_parlsessions

Get Parliamentary Sessions

Description

A function for retrieving dates of the parliamentary sessions after WWII

Usage

```
get_parlsessions()
```

Value

A data.frame with the following variables:

response_date	Date of data retrieval
version	Data version from the API
from	Date session started
id	Id of for session (used for other functions)
to	Date session ended
years	From year to year in full format

See Also

[get_parlperiods](#)

Examples

```
## Not run:  
  
parlses <- get_parlsessions()  
parlses  
  
## End(Not run)
```

get_proceedings *All parliamentary proceedings*

Description

A function for retrieving all proceedings in Stortinget, both current and historical.

Usage

```
get_proceedings()
```

Value

A list with three dataframes:

1. **\$root** (only download meta data)

response_date	Date of data retrieval
version	Data version from the API

2. **\$proceedings** (description of main proceeding categories)

id	Id of proceeding
name	Name of proceeding

3. **\$proceedings_steps** (description of proceeding steps within each main category)

id	Id of proceeding step
name	Name of proceeding step
step_number	Order of proceeding steps
outdated	Whether the step is outdated
main_id	Id for proceeding type the step belongs to

Examples

```
## Not run:

get_proceedings()

## End(Not run)
```

get_proposal_votes *Retrieve all votes for a specified vote proposal*

Description

A function for retrieving all votes from a specific vote proposal. Vote data are only available from the 2011-2012 session

Usage

```
get_proposal_votes(voteid = NA, good_manners = 0)
```


Arguments

voteid	Character string indicating the id of the vote to request all votes from
good_manners	Integer. Seconds delay between calls when making multiple calls to the same function

Value

A list with two elements:

1. **\$proposal_vote** (main data on the vote proposal)

response_date	Date of data retrieval
version	Data version from the API
vote_id	Id of the vote

2. **\$proposal_by_parties\${proposal_id}** (what parties (id) stood behind proposal(s))

See Also

[get_vote](#) [get_decision_votes](#) [get_result_vote](#)

Examples

```
## Not run:

prop <- get_proposal_votes(7523)
prop

for(i in 1:length(prop$proposal_by_parties)){
  prop$proposal_vote$parties[i] <- paste0(prop$proposal_by_parties[[i]],
                                         collapse = ", ")
}

## End(Not run)
```

get_publication	<i>Retrieve a specific publication</i>
-----------------	--

Description

A function for retrieving a specific publication. Because these are formatted very differently in the API, the returning object is in a raw html_document format, best manipulated with html packages such as [rvest](#).

Usage

```
get_publication(publicationid = NA, good_manners = 0)
```

Arguments

```
publicationid  Character string indicating the id of the publication to request all votes from
good_manners   Integer. Seconds delay between calls when making multiple calls to the same
               function
```

Value

A raw html_document

See Also

[get_question](#) [get_question_hour](#) [get_session_publications](#)

Examples

```
## Not run:
pub <- get_publication("refs-201819-03-06")
(pub |> html_elements("replikk"))[1] |> html_text()

## End(Not run)
```

get_question

Parliamentary question

Description

A function for retrieving single parliamentary questions by id. For retrieving the whole debate over a question, the [get_publication](#) function has to be used

Usage

```
get_question(questionid = NA, good_manners = 0)
```

Arguments

```
questionid    Character string indicating the id of the session to request interpellations from
good_manners   Integer. Seconds delay between calls when making multiple calls to the same
               function
```

Value

A data.frame with the following variables:

response_date	Date of data retrieval
version	Data version from the API
justification	Justification for question
answ_by_id	Id for answering minister
answ_by_minister_id	Id for department of answering minister
answ_by_minister_title	Title for department of answering minister
answ_date	Date question was asked
answ_on_behalf_of	Id of minister answered on behalf of, when relevant
answ_on_behalf_of_minister_id	Id of department answered on behalf of, when relevant
answ_on_behalf_of_minister_title	Title of department answered on behalf of, when relevant
agenda_number	Agenda number in meeting
moved_to	Date moved to
id	Question id
correct_person_id	Not documented in API
correct_person_minister_id	Not documented in API
correct_person_minister_title	Not documented in API
sendt_date	Date question was sent
session_id	Session id
question_text	Full question text
question_from_id	Id of MP asking the question
question_number	Question number
question_to_id	Id of minister the question was asked to
question_to_minister_id	Department id of minister the question was asked to
question_to_minister_title	Department title of minister the question was asked to
answer_text	Answer text (often empty)
title	Question title
type	Question type

See Also

[get_question_hour](#) [get_publication](#)

Examples

```
## Not run:
# An example of a possible workflow

## Retrieve sessions
sessions <- get_parlsessions()

## Retrieve all interpellations for a particular session
qsesh <- get_session_questions(sessions$id[9], q_type = "interpellasjoner")

## Retrieve detailed information on all interpellations in that session
library(pbmclapply) # for progress bar. never use paralell on scraping
int1213 <- pbmclapply(qsesh$id, function(x){
  get_question(x, good_manners = 2)
```

```

}, mc.cores = 1)

quest1213 <- do.call(rbind, int1213)

## End(Not run)

```

get_question_hour *Retrieve question hour details for a specified meeting*

Description

A function for retrieving detailed overview of the question hour for a specific meeting

Usage

```
get_question_hour(meetingid = NA, good_manners = 0)
```

Arguments

meetingid	Character string indicating the id of the meeting to request all votes from
good_manners	Integer. Seconds delay between calls when making multiple calls to the same function

Value

A list with ten data frames:

1. **\$root** (download meta data)

response_date	Date of data retrieval
version	Data version from the API
meetingid	The called meeting id

2. **\$question_hour_ministers** (id of ministers in parliament during question hour/time)

id	Id of ministers attending
-----------	---------------------------

3. **\$question_time**

question_justification	Justification for question
answer_by_id	Id for answering minister
answer_by_minister_id	Id for department of answering minister

answer_by_minister_title	Title for department of answering minister
answer_date	Date of receiving answer
answer_on_behalf_of_id	Id of minister answered on behalf of, when relevant
answer_on_behalf_of_minister_id	Id of department answered on behalf of, when relevant
answer_on_behalf_of_minister_title	Title of department answered on behalf of, when relevant
agenda_case_number	Case number on agenda
date	Date question hour was held
moved_to	Date moved to
asked_by_other_id	Id for minister asking on behalf of another, when relevant
question_id	Question id
correct_person	Not documented in API
correct_person_minister_id	Not documented in API
correct_person_minister_title	Not documented in API
sent_date	Date question was sent
session_id	Session id
question_text	Full question text
question_from_id	Id of MP asking the question
question_number	Question number
question_to_id	Id of minister the question was asked to
question_to_minister_id	Department id of minister the question was asked to
question_to_minister_title	Department title of minister the question was asked to
status	Question status
answer	Answer text (often empty)
title	Question title
type	Question type

4. \$publication_reference

export_id	Export id for publication (see get_publication())
link_text	Description text for publication
link_url	URL for publication
type	Type of publication
sub_type	Subtype for publication (location)

See Also

[get_question](#) [get_session_questions](#) [get_publication](#)

Examples

```
## Not run:
get_question_hour(10232)

## End(Not run)
```

get_result_vote	<i>Retrieve vote results on MP level for a specified vote</i>
-----------------	---

Description

A function for retrieving vote results from a specific vote on MP level. Vote data are only available from the 2011-2012 session. Needs some preprocessing for use with rollcall packages, such as [ideal](#).

Usage

```
get_result_vote(voteid = NA, good_manners = 0)
```

Arguments

voteid	Character string indicating the id of the vote to request all votes from
good_manners	Integer. Seconds delay between calls when making multiple calls to the same function

Value

A data.frame with the following variables:

response_date	Date of data retrieval
version	Data version from the API
vote_id	Id of vote
mp_id	MP id
party_id	Party id
vote	Vote: for, mot (against), ikke_tilstede (absent)
permanent_sub_for	Id of the MP originally holding the seat, if the substitute is permanent
sub_for	Id of the MP originally holding the seat

See Also

[get_decision_votes](#) [get_proposal_votes](#) [get_vote](#) [get_mp_bio](#)

Examples

```
## Not run:

v <- get_result_vote(12345)
table(v$vote)
```

```

p <- get_proposal_votes(12345)

stringr::str_replace_all(p$proposal_vote$proposal_text,
                          "\\<(.*?)\\>|\\r\\n", "") |>
  stringr::str_trim()

## End(Not run)

```

get_session_cases *Cases in specified session*

Description

A function for retrieving all cases treated in a specified parliamentary session.

Usage

```
get_session_cases(sessionid = NA, good_manners = 0, cores = 1)
```

Arguments

sessionid	Character string indicating the id of the parliamentary session to retrieve.
good_manners	Integer. Seconds delay between calls when making multiple calls to the same function
cores	Integer. Number of cores (1 by default) to use in structuring the data. More than 1 will not work on windows

Value

A data.frame with the following variables:

1. **\$root** (main data on the MP)

response_date	Date of data retrieval
version	Data version from the API
treated_session_id	Session the case was treated in
document_group	Document group the case belongs to
reference	Document reference
id	Case id
com_req_id	Committee recommendation id
com_req_code	Committee recommendation code
title_short	Short title of case
case_filed_id	Id of filed case
last_update_date	Date of last update on case
status	Status of the case
title	Full title of the case

type	Type of case
session_id	Session id of the case
committee_id	Responsible committee id

2. \$topics (named list by case id)

is_main_topic	Logical indication whether the topic is the main topic
main_topic_id	Id of the main topic for the case
id	Topic id
name	Topic name

3. \$proposers (named list by case id)

rep_id	Proposing MP id
county_id	County id of proposing MP
party_id	Party id of proposing MP
rep_sub	Logical indicator for whether MP is a substitute

4. \$spokespersons (data frame by case id)

case_id	Case id
rep_id	Spokesperson(s) MP id for the case
county_id	County id of spokesperson MP
party_id	Party id of spokesperson MP
rep_sub	Logical indicator for whether MP is a substitute

See Also

[get_case](#) [get_vote](#)

Examples

```
## Not run:
s0506 <- get_session_cases("2005-2006")
head(s0506)

## End(Not run)
```

`get_session_committees`*Parliamentary committees in specified session*

Description

A function for retrieving Norwegian parliamentary committees for a specified parliamentary session

Usage

```
get_session_committees(sessionid = NA, good_manners = 0)
```

Arguments

<code>sessionid</code>	Character string indicating the id of the parliamentary session to retrieve.
<code>good_manners</code>	Integer. Seconds delay between calls when making multiple calls to the same function

Value

A data.frame with the following variables:

response_date	Date of data retrieval
version	Data version from the API
id	Committee id
name	Committee name
session_id	Session id

See Also

[get_all_committees](#) [get_mp_bio](#) [get_mp](#)

Examples

```
## Not run:  
  
coms <- get_session_committees("2001-2002")  
coms  
  
## End(Not run)
```

get_session_decisions *Retrieve all decisions for a specified session*

Description

A function for retrieving all decisions from a specific parliamentary session.

Usage

```
get_session_decisions(sessionid = NA, good_manners = 0)
```

Arguments

sessionid	Character string indicating the id of the session to request all votes from
good_manners	Integer. Seconds delay between calls when making multiple calls to the same function

Value

A data.frame with the following variables:

response_date	Date of data retrieval
version	Data version from the API
session_id	Session id
decision_id	Decision id
case_id	Case id
case_link_url	URL for case to front end web page
decision_date	Decision date
decision_link_url	URL for decision to front end web page
decision_number	Decision number within session
decision_text	Decision text
decision_title	Decision title
decision_type_id	Decision type id
decision_type_name	Decision type name

See Also

[get_decision_votes](#)

Examples

```
## Not run:

desci <- get_session_decisions("2004-2005")
head(desci)
```

```
## End(Not run)
```

```
get_session_delegations  
    Parliamentary delegations in specified session
```

Description

A function for retrieving delegations for a specified parliamentary session.

Usage

```
get_session_delegations(sessionid = NA, good_manners = 0)
```

Arguments

sessionid	Character string indicating the id of the parliamentary session to retrieve.
good_manners	Integer. Seconds delay between calls when making multiple calls to the same function

Value

A data.frame with the following variables:

response_date	Date of data retrieval
version	Data version from the API
id	Delegation id
name	Name of delegation
session_id	Session id

See Also

[get_session_committees](#) [get_all_committees](#)

Examples

```
## Not run:  
  
deleg <- get_session_delegations("2015-2016")  
deleg  
  
## End(Not run)
```

get_session_hearings *Retrieve hearings in specified session*

Description

A function for retrieving all hearings in a specified parliamentary session.

Usage

```
get_session_hearings(sessionid = NA, good_manners = 0, cores = 1)
```

Arguments

sessionid	Character string indicating the id of the parliamentary session to retrieve.
good_manners	Integer. Seconds delay between calls when making multiple calls to the same function
cores	Integer...

Value

A list with four elements:

1. **\$root** (hearing meta data)

response_date	Date of data retrieval
version	Data version from the API
session_id	Session id

2. **\$hearing** (main data on the hearing)

deadline_date	Deadline date for hearing
status	Data version from the API
hearing_id	Hearing id
input_deadline	Deadline date for input
written	Logical indication of whether the input was written
application_deadline	Deadline date for application to hearing
start_date	Start date for hearing
status_pub	Publication status for hearing
status_info_text	Status information text
type	Type of hearing
committee_id	Committee id for committee responsible for hearing

3. **\$hearing_case_info** (named list by hearing id with information on the case(s) belonging to the hearing)

hearing_id	Hearing id
case_reference	Text reference for case
case_id	Case id
case_short_title	Short title for case
case_publication	URL for front end web-page publication
case_title	Full title for case

4. **\$hearing_date** (named list by hearing id with date(s) the hearing was held)

hearing_id	Hearing id
date	Date of hearing
place	Where the hearing was held

See Also

[get_hearing_input](#) [get_hearing_program](#) [get_written_hearing_input](#)

Examples

```
## Not run:

hear <- get_session_hearings("2010-2011")
head(hear$hearing)

## End(Not run)
```

get_session_meetings *Retrieve all meetings for a specified parliamentary session*

Description

A function for retrieving meetings from a specific parliamentary session

Usage

```
get_session_meetings(sessionid = NA, good_manners = 0)
```

Arguments

sessionid	Character string indicating the id of the session to request all votes from
good_manners	Integer. Seconds delay between calls when making multiple calls to the same function

Value

A data.frame with the following variables:

response_date	Date of data retrieval
version	Data version from the API
session_id	Session id
agenda_number	Agenda number within the session
footnote	Footnotes for the meeting
meeting_id	Meeting id
no_meeting_text	Description of why there was no meeting, if relevant
evening_meeting	Whether the meeting was an evening meeting or not
note	Note for the meeting
meeting_date	Date the meeting took place
meeting_order	Indicator for meeting order
meeting_place	Where the meeting took place
transcript_id	Id for transcript (usually empty)
additional_agenda	Logical indicator for whether there was additional agenda to the meeting

See Also

[get_meeting_agenda](#) [get_question_hour](#)

Examples

```
## Not run:

meet <- get_session_meetings("2013-2014")
head(meet)

## End(Not run)
```

get_session_mp_speech_activity

Retrieve all speech activity from one MP for a given session

Description

A function for retrieving all speech activity from an MP during a specific parliamentary session. Only available from the 2011-2012 session and onwards.

Usage

```
get_session_mp_speech_activity(sessionid = NA, mp_id = NA, good_manners = 0)
```

Arguments

<code>sessionid</code>	Character string indicating the session to retrieve speeches from.
<code>mp_id</code>	Character string for the MP to retrieve all speeches of in a given session.
<code>good_manners</code>	Integer. Seconds delay between calls when making multiple calls to the same function

Value

A data.frame with the following variables:

response_date	Date of data retrieval
version	Data version from the API
session_id	Session id
agenda_case_number	Number indicating the agenda number for the case
meeting_id	Meeting id
speech_start_time	Start time of speech
speech_type	Type of speech
speech_length_secs	Length of speech in seconds

See Also

[get_mp](#) [get_mp_bio](#) [get_publication](#)

Examples

```
## Not run:  
  
activ <- get_session_mp_speech_activity("2012-2013", "ALYS")  
head(activ)  
  
## End(Not run)
```

get_session_parties *Parliamentary parties in specified session*

Description

A function for retrieving Norwegian parliamentary parties for a specified parliamentary session

Usage

```
get_session_parties(sessionid = NA, good_manners = 0)
```

Arguments

sessionid Character string indicating the id of the parliamentary session to retrieve.
good_manners Integer. Seconds delay between calls when making multiple calls to the same function

Value

A data.frame with the following variables:

response_date	Date of data retrieval
version	Data version from the API
id	Party id
name	Party name
represented_party	Logical indication of whether party was represented
session_id	Session id
period_id	Parliamentary period id

See Also

[get_all_parties](#)

Examples

```
## Not run:  
  
parties <- get_session_parties("2003-2004")  
parties  
  
## End(Not run)
```

 get_session_publications

Retrieve publications of a type in a parliamentary session

Description

A function for retrieving one of several publication types within a parliamentary session.

Usage

```
get_session_publications(sessionid = NA, type = "referat", good_manners = 0)
```

Arguments

sessionid	Character string indicating the id of the hearing to retrieve.
type	Character specifying type of publication to download. Available types are "referat" (minutes), "innstilling" (proposition), "innberetning" (report), "lovvedtak" (law decision), "lovanmerkning" (law note), "dok8" (MP proposal) "dok12" (Constitutional proposal), and "dokumentserie" (document series). Defaults to "referat".
good_manners	Integer. Seconds delay between calls when making multiple calls to the same function

Value

A data.frame with the following variables:

response_date	Date of data retrieval
version	Data version from the API
session_id	Session id
publication_date	Date of publication
publication_id	Id of publication
publication_format	Publication format (XML)
publication_available_date	When the publication was made available
publication_title	Publication title
publication_type	Publication type

See Also

[get_publication](#)

Examples

```
## Not run:
```

```
pub <- get_session_publications("1998-99")
head(pub)
```

```
## End(Not run)
```

get_session_questions *Parliamentary questions in a session*

Description

A function for retrieving all questions within a parliamentary session.

Usage

```
get_session_questions(sessionid = NA, q_type = NA, status = NA, good_manners = 0)
```

Arguments

sessionid	Character string indicating the id of the session to request interpellations from
q_type	Character string indicating type of question to retrieve. Options are "interpellasjoner" (interpellations), "sporretimesporsmal" (oral questions), or "skriftligesporsmal" (written questions).
status	Character string question status extraction. Possible values are NA (extract all questions), "til_behandling" (pending questions), "trukket" (withdrawn questions), "bortfalt" (lapsed questions), or "alle" (all questions)
good_manners	Integer. Seconds delay between calls when making multiple calls to the same function

Value

A data.frame with the following variables:

response_date	Date of data retrieval
version	Data version from the API
answ_by_id	Id of minister answering question
answ_by_minister_id	Department id of answering minister
answ_by_minister_title	Department title of answering minister
answ_date	Date answer was given
answ_on_belhalf_of	Answer given on behalf of
answ_on_belhalf_of_minister_id	Department id of minister given answer on behalf of
answ_on_belhalf_of_minister_title	Department title of minister given answer on behalf of
topic_ids	Id of relevant topics for question
moved_to	Question moved to

asked_by_other_id	MP id, if question was not asked by the questioning MP
id	Question id
correct_person	Not documented in API
correct_person_minister_id	Not documented in API
correct_person_minister_title	Not documented in API
sendt_date	Date the question was sent
session_id	Session id
question_from_id	Question from MP id
question_number	Question number within session
question_to_id	Question directed to minister id
question_to_minister_id	Question directed to minister department id
question_to_minister_title	Question directed to minister department title
status	Question status
title	Question title
type	Question type

See Also

[get_question_hour](#) [get_question](#)

Examples

```
## Not run:
interp <- get_session_questions(sessionid = "2013-2014",
                               q_type = "interpellasjoner",
                               status = "trukket")

interp

## End(Not run)
```

get_topics

Get list of topics and sub-topics for the Norwegian parliament

Description

A function for retrieving topic keys used to label various data from the Norwegian parliament.

Usage

```
get_topics(keep_sub_topics = TRUE)
```

Arguments

keep_sub_topics

Logical. Whether to keep sub-topics (default) for all main topics or not.

Value

A list with two elements:

1. **\$topics** (All topics)

response_date	Date of data retrieval
version	Data version from the API
is_main_topic	Logical indicator for whether the topic is a main topic
main_topic_id	Id of main topic
id	Id of topic
name	Name of topic

2. **\$main_topics** (exclusively main topics, if keep_sub_topics = TRUE)

response_date	Date of data retrieval
version	Data version from the API
is_main_topic	Logical indicator for whether the topic is a main topic
main_topic_id	Id of main topic
id	Id of topic
name	Name of topic

Examples

```
# Request the data
tops <- get_topics()

# Look at the first main topic
tops$main_topics[1, ]

# Extract all sub-topics for the first main topic
tops$topics[which(tops$topics$main_topic_id == 5), ]
```

get_vote

Retreive votes for a specific case

Description

A function for retrieving all votes from a case. Vote data are only available from the 2011-2012 session

Usage

```
get_vote(caseid = NA, good_manners = 0)
```

Arguments

caseid	Character string indicating the id of the case to request all votes from
good_manners	Integer. Seconds delay between calls when making multiple calls to the same function

Value

A data.frame with the following variables:

response_date	Date of data retrieval
version	Data version from the API
case_id	Case id up for vote
alternative_vote	Whether vote is an alternative vote
n_for	Number of votes for
n_absent	Number of MPs absent
n_against	Number of votes against
treatment_order	Order of treated votes
agenda_case_number	Case number on the agenda of the meeting
free_vote	Logical indication of whether the vote is related to the case as a whole
comment	Vote comment
meeting_map_number	Number on the meeting map
personal_vote	Logical indication of whether vote was recorded as roll call or not
president_id	Id of president holding president chair at the time of voting
president_party_id	Party of the sitting president
adopted	Logical indication of whether the proposal voted on was adopted
vote_id	Id of vote
vote_method	Voting method
vote_result_type	Result type (enstemmig_vedtatt = unanimously adopted)
vote_result_type_text	See vote_result_type
vote_topic	Description of the proposal voted upon
vote_datetime	Date and time of vote

See Also

[get_decision_votes](#) [get_proposal_votes](#) [get_vote](#) [get_session_cases](#) [get_case](#)

Examples

```
## Not run:

get_vote(63033)

## End(Not run)
```

```
get_written_hearing_input
```

Retrieve written input for a specified hearing

Description

A function for retrieving written input for a specified hearing

Usage

```
get_written_hearing_input(hearingid = NA, good_manners = 0)
```

Arguments

hearingid	Character string indicating the id of the hearing to retrieve.
good_manners	Integer. Seconds delay between calls when making multiple calls to the same function

Value

A data.frame the following variables:

response_date	Date of data retrieval
version	Data version from the API
hearing_id	Id of the hearing
hearing_type	Type of hearing
committee_id	Id of committee responsible for the hearing
hearing_input_date	Date of receiving input
hearing_input_id	Hearing input id
hearing_input_organization	Organization giving input
hearing_input_text	Full text of the hearing input
hearing_input_title	Title of the hearing input

See Also

[get_hearing_input](#) [get_hearing_program](#) [get_session_hearings](#)

Examples

```
## Not run:

get_written_hearing_input(hearingid = 10004243)

## End(Not run)
```

 interp0203

Interpellations from the 2002-2003

Description

A dataset containing all interpellations in the 2002-2003 parliamentary session in *Stortinget*

Usage

interp0203

Format

A data frame with 26 columns and 22 rows

response_date Date of data retrieval

version Data version from the API

answ_by_id Id of minister answering question

answ_by_minister_id Department id of answering minister

answ_by_minister_title Department title of answering minister

answ_date Date answer was given

answ_on_belhalf_of Answer given on behalf of

answ_on_belhalf_of_minister_id Department id of minister given answer on behalf of

answ_on_belhalf_of_minister_title Department title of minister given answer on behalf of

topic_ids Id of relevant topics for question

moved_to Question moved to

asked_by_other_id MP id, if question was not asked by the questioning MP

id Question id

correct_person Not documented in API

correct_person_minister_id Not documented in API

correct_person_minister_title Not documented in API

sendt_date Date the question was sent

session_id Session id

question_from_id Question from MP id

question_number Question number within session

question_to_id Question directed to minister id

question_to_minister_id Question directed to minister department id

question_to_minister_title Question directed to minister department title

type Question type

title Question title

status Question status

Source

<https://data.stortinget.no/eksport/interpellasjoner?sesjonid=2002-2003>

mps4549

Members of parliament from the 1945-1949

Description

A dataset containing all MPs during the 1945-1949 parliamentary period in *Stortinget*

Usage

mps4549

Format

A data frame with 12 columns and 150 rows

response_date Date of data retrieval

version Data version from the API

death Date of death

lastname MP last name

birth Date of birth

firstname MP first name

mp_id MP id

gender MP gender

county_id Id of county MP represented

party_id Id of party MP represented

substitute_mp Logical for whether MP is a substitute

period_id Id of period represented in

Source

<https://data.stortinget.no/eksport/representanter?stortingsperiodeid=1945-49>

parl_periods	<i>Parliamentary periods</i>
--------------	------------------------------

Description

A dataset containing all parliamentary periods in *Stortinget*

Usage

parl_periods

Format

A data frame with 12 columns and 150 rows

response_date Date of data retrieval

version Data version from the API

from Date session started

id Id of for session (used for other functions)

to Date session ended

years From year to year in full format

Source

<https://data.stortinget.no/eksport/stortingsperioder>

parl_sessions	<i>Parliamentary sessions</i>
---------------	-------------------------------

Description

A dataset containing all parliamentary sessions in *Stortinget*

Usage

parl_sessions

Format

A data frame with 6 columns and 36 rows

response_date Date of data retrieval

version Data version from the API

from Date session started

id Id of for session (used for other functions)

to Date session ended

years From year to year in full format

Source

<https://data.stortinget.no/eksport/sesjoner>

read_obt	<i>Read Oslo-Bergen-Tagger processed files into R</i>
----------	---

Description

A function reading OBT-tagged files

Usage

```
read_obt(file = NA)
```

Arguments

file character. Path to OBT-tagged file

Value

A data frame with the following variables:

sentence	Sentence number
index	Token number in sentence
token	Raw token, as read by OBT originally
lwr	Lowercase raw token
lemma	Lemmatized token
pos	Part of Speech
morph	Morphological tags

Examples

```
## Not run:
sample_text <- read_obt("../inst/extdata/obt_sample.txt")
head(sample_text)

## End(Not run)
```

vote	<i>Meta data on votes of case id 78686</i>
------	--

Description

A dataset containing vote information on case id 78686 in *Stortinget*

Usage

vote

Format

A list with three elements (votes)

response_date Date of data retrieval

version Data version from the API

case_id Case id up for vote

alternative_vote Whether vote is an alternative vote

n_for Number of votes for

n_absent Number of MPs absent

n_against Number of votes against

treatment_order Order of treated votes

agenda_case_number Case number on the agenda of the meeting

free_vote Logical indication of whether the vote is related to the case as a whole

comment Vote comment

meeting_map_number Number on the meeting map

personal_vote Logical indication of whether vote was recorded as roll call or not

president_id Id of president holding president chair at the time of voting

president_party_id Party of the sitting president

adopted Logical indication of whether the proposal voted on was adopted

vote_id Id of vote

vote_method Voting method

vote_result_type Result type (enstemmig_vedtatt = unanimously adopted)

vote_result_type_text See **vote_result_type**

vote_topic Description of the proposal voted upon

vote_datetime Date and time of vote

Source

<https://data.stortinget.no/eksport/voteringsresultat?voteringid=15404>

vote_result

Roll call vote results for vote ids 15404, 15405, and 15406

Description

A dataset containing all personal votes for votes 15404, 15405, and 15406 in *Stortinget*

Usage

vote_result

Format

A list with one vote per element

response_date Date of data retrieval

version Data version from the API

vote_id Id of vote

mp_id MP id

party_id Party id

vote Vote: for, mot (against), ikke_tilstede (absent)

permanent_sub_for Id of the MP originally holding the seat, if the substitute is permanent

sub_for Id of the MP originally holding the seat

Source

<https://data.stortinget.no/eksport/voteringsresultat?voteringid=15404>, <https://data.stortinget.no/eksport/voteringsresultat?voteringid=15405>, <https://data.stortinget.no/eksport/voteringsresultat?voteringid=15406>

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