

# Package ‘swissdd’

August 30, 2019

**Type** Package

**Title** Get Swiss Federal and Cantonal Vote Results from Opendata.swiss

**Imports** purrr, dplyr, tidyr, jsonlite, magrittr, tibble, curl

**Version** 1.0.1

**Description** Builds upon the real time data service as well as the archive for national votes <[https://opendata.swiss/api/3/action/package\\_show?id=echtzeitdaten-am-abstimmungstag-zu-eidgenoessischen-abstimmungsvorlagen](https://opendata.swiss/api/3/action/package_show?id=echtzeitdaten-am-abstimmungstag-zu-eidgenoessischen-abstimmungsvorlagen)> and cantonal votes <[https://opendata.swiss/api/3/action/package\\_show?id=echtzeitdaten-am-abstimmungstag-zu-kantonalen-abstimmungsvorlagen](https://opendata.swiss/api/3/action/package_show?id=echtzeitdaten-am-abstimmungstag-zu-kantonalen-abstimmungsvorlagen)>. It brings the results of Swiss popular votes, aggregated at the geographical level of choice, into R.

**URL** <https://github.com/politanch/swissdd>

**BugReports** <https://github.com/politanch/swissdd/issues>

**License** GPL-2

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 6.1.1

**NeedsCompilation** no

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**Repository** CRAN

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available\_votedates    *Get a vector of available vote dates*

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### Description

available\_votedates is a utility function to get the available votedates.

### Usage

```
available_votedates(geolevel = "national")
```

### Arguments

geolevel            geographical level for which available votedates should be displayed. options "national" or "canton"

### Details

available\_votedates - get available votedates of federal and cantonal popular votes

### Value

a vector of votedates (Format: YYYY-MM-DD)

### Examples

```
# Get vector of all available dates
federal_votedates <- available_votedates()

cantonal_votedates <- available_votedates(geolevel="canton")
```

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canton\_json\_to\_dfr      *Transform cantonal results json into tibble*

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### Description

canton\_json\_to\_dfr Transforms a single results json for a selected cantonal votedate into a tibble.

### Usage

```
canton_json_to_dfr(votedate = NULL, geolevel = "municipality",  
  dataurl = NULL, index = NULL)
```

### Arguments

votedate	date of the ballot. Default: most recent ballot available.
geolevel	geographical level for which the results should be loaded. options."canton","district" or "municipality"
dataurl	list of datasets / metadata for the given dataset and its resources OR url of the dcat dataset on opendata.swiss
index	selection by index of the resource (last published = 1).

### Details

placeholder

### Value

a tibble containing the results

### Examples

```
#most recent vote  
results <- canton_json_to_dfr()  
  
glimpse(results)
```

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get_cantonalvotes	<i>Get cantonal results and counting status for selected dates or a given period</i>
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### Description

get\_cantonalvotes is one of the two main functions of swissvote package. It allows to retrieve the results and the counting status for national ballots.

### Usage

```
get_cantonalvotes(geolevel = "municipality", votedates = NULL,  
  from_date = NULL, to_date = NULL)
```

### Arguments

geolevel	geographical level for which the results should be loaded. options: "canton", "district" or "municipality"
votedates	dates of the ballots to be selected. Default: most recent ballot available. Format = "YYYY-MM-DD"
from_date	starting point in time from which vote-results should be retrieved. Format = "YYYY-MM-DD"
to_date	end point in time to which vote-results should be retrieved. Format = "YYYY-MM-DD"

### Details

get\_cantonalvotes - retrieve vote results for cantonal ballots at district- or municipality level for selected dates or a given date range.

### Value

a tibble containing the results

### Examples

```
results <-get_cantonalvotes(geolevel="district",from_date = 20180101,to_date=20181231)  
  
get_cantonalvotes(to_date="1983-12-04")  
  
OR  
  
get_cantonalvotes(votedates="2019-02-10")  
  
glimpse(results)
```

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get_swissvotes	<i>Get national results and counting status for selected dates or a given period</i>
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### Description

get\_swissvotes is one of the two main functions of swissvote package. It allows to retrieve the results and the counting status for national ballots.

### Usage

```
get_swissvotes(geolevel = "municipality", votedates = NULL,  
  from_date = NULL, to_date = NULL)
```

### Arguments

geolevel	geographical level for which the results should be loaded. options: options: "national", "canton", "district" or "municipality"
votedates	dates of the ballots to be selected. Default: most recent ballot available. Format = "YYYY-MM-DD"
from_date	starting point in time from which vote-results should be retrived. Format = "YYYY-MM-DD"
to_date	end point in time to which vote-results should be retrived. Format = "YYYY-MM-DD"

### Details

get\_swissvotes - retrieve vote results for national ballots at district- or municipality level for selected dates or a given date range.

### Value

a tibble containing the results

### Examples

```
# Selection by enddate only  
get_swissvotes(to_date="1983-12-04")  
  
# Selection of a specific votedate  
get_swissvotes(votedates="2014-02-09")
```

```
glimpse(results)
```

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similar_votes	<i>Obtain similarities a vote result shares with other votes</i>
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### Description

similar\_votes allows to obtain correlations of specified vote with other votes.

### Usage

```
similar_votes(federalvotes = NULL, id = NULL, corr = T,  
             from = NULL, to = NULL)
```

### Arguments

federalvotes	tibble or data.frame that is returned by 'get_swissvotes'.
id	identification number of the vote, needs four digits. Vote 626 (Zersiedelungsinitiative) needs 6260.
corr	set to TRUE by default. If FALSE return the variance-covariance matrix.
from	lower limit of correlations.
to	upper limit of correlations.

### Value

a tibble containing the results

### Examples

```
federalvotes <- get_swissvotes(geolevel = "canton", from_date = "2010-03-07", to_date="2019-02-10")  
  
#Find correlating votes for the 'Zersiedelungsinitiative', 2019-02-10  
results <- similar_votes(federalvotes, id=6260)  
  
#Zersiedelungsinitiative, 2019-02-10  
results <- similar_votes(federalvotes, id=6260, from = 0.5)  
  
OR  
  
#Zersiedelungsinitiative, 2019-02-10  
results <- similar_votes(federalvotes, id=6260, from = 0.1, to = 0.2)
```

```
glimpse(results)
```

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swiss_json_to_dfr	<i>Transform federal results json into tibble</i>
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### Description

swiss\_json\_to\_dfr Transforms the json containing the results of a selected federal votedate into a tibble.

### Usage

```
swiss_json_to_dfr(votedate = NULL, geolevel = "municipality",  
  dataurl = NULL, index = NULL)
```

### Arguments

votedate	date of the ballot. Default: most recent ballot available. To select multiple ballots use the 'get_swissvotes'-function. Format = YYYYMMDD
geolevel	geographical level for which the results should be loaded. options "national", "canton", "district" or "municipality"
dataurl	url of the dataset on opendata-swiss
index	selection by index of the resource (last published = 1).

### Value

a tibble containing the results

### Examples

```
# transform the json of the most recent vote  
results <- swiss_json_to_dfr()  
  
glimpse(results)  
  
# transform the json of a selected votedate  
swiss_json_to_dfr(votedate = "2019-02-10")
```

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