Package ‘parlitools’

January 12, 2020

Type Package
Title Tools for Analysing UK Politics
Version 0.4.1
Maintainer Evan Odell <evanodell91@gmail.com>
Description Provides various tools for analysing UK political data, including
election result datasets, hexagonal cartograms and functions to
retrieve council member data.
URL https://docs.evanodell.com/parlitools,
https://github.com/EvanOdell/parlitools/
BugReports https://github.com/EvanOdell/parlitools/issues
License MIT + file LICENSE
LazyData TRUE
Depends R(>= 3.3.0)
Imports hansard, mnis, dplyr, stringi, sf, snakecase, readr
RoxygenNote 7.0.2
Encoding UTF-8
Suggests knitr, rmarkdown, testthat, covr, rgdal, devtools, leaflet,
htmltools, cartogram, htmlwidgets, ggplot2, tibble, janitor
VignetteBuilder knitr
NeedsCompilation no
Author Evan Odell [aut, cre] (<https://orcid.org/0000-0003-1845-808X>)
Repository CRAN
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R topics documented:

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2015 General Election Results

Description

A tibble with the British Election Study 2015 Constituency Results Version 2.21.

Usage

bes_2015

Format

A tibble, containing 650 rows and 92 columns. For full details on the included variables see the vignette: http://docs.evanodell.com/parlitools/articles/bes-2015.html

Details

A tibble with constituencies results from the British Election Study 2015. Census data from the BES has been moved to the census_11 dataset, and can be linked through the with the pano, ons_const_id and constituency_name variables. Only contains detailed results from Great Britain; the only data included on Northern Irish constituencies is the party that won the seat.

Variable names have been converted to snake_case and variables have been converted to appropriate R classes. If using in publications, please cite as below:

Source


References

See Also

bes_2017  
bes_2019  
census_2011

---

**Description**

A tibble with the British Election Study 2017 Constituency Results Version 1.0.

**Usage**

bes_2017

**Format**

A tibble, containing 650 rows and 123 columns. For full details on the included variables see the vignette: [http://docs.evanodell.com/parlitools/articles/bes-2017.html](http://docs.evanodell.com/parlitools/articles/bes-2017.html)

**Details**

A tibble with Great Britain constituencies results from the 2017 General Election. This data can be linked to 2011 census information in `census_11` with the pano, ons_const_id and constituency_name variables. There are

Variable names have been converted to snake_case and variables have been converted to appropriate R classes. If using in publications, please cite as below:

**Source**


**References**


See Also

bes_2015  
bes_2019  
census_2011
Description

A tibble with the 2019 UK General Election results, taken from the House of Commons library and the Democracy Club crowd-sourced data on candidates.

Usage

bes_2019

Format

A tibble, containing 650 rows and 98 columns. For full details on the included variables see the vignette: [http://docs.evanodell.com/parlitools/articles/bes-2019.html](http://docs.evanodell.com/parlitools/articles/bes-2019.html)

Details

A tibble with Great Britain constituencies results from the 2019 General Election. This data can be linked to 2011 census information in census_11 with the pano, ons_const_id and constituency_name variables.

Although not taken from the official British Election Study I have preserved the bes_{election} naming convention. Data from Northern Ireland is also included in this object.

Source

https://candidates.democracyclub.org.uk/api/docs/csv/#past

https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CPB-8749

See Also

bes_2015
bes_2017
census_2011
census_11  Constituency demographic information

Description
A tibble with demographic information on each constituency, taken from the 2011 census data included in the British Election Study. Can be linked to the `bes_2017` and `bes_2015` datasets using the `pano`, `ons_const_id` and `constituency_name` variables.

Usage

census_11

Format
A tibble, containing 632 rows and 191 columns. For full details on the included variables see the vignette: [http://docs.evanodell.com/parlitools/articles/census-11.html](http://docs.evanodell.com/parlitools/articles/census-11.html)

Source

References

See Also

`bes_2015`
`bes_2017`
`bes_2019`

council_seats  Council Seats

Description
Downloads data from <opencouncildata.co.uk/>, with the composition of each local council in Great Britain. If using this data, please cite the above site as the source.

Usage

council_seats(councillors = FALSE, tidy = TRUE, tidy_style = "snake_case")
current_mps

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>councillors</td>
<td>If TRUE, downloads details on each individual councillor for each local council. If FALSE, downloads summary data for each council. Defaults to FALSE.</td>
</tr>
<tr>
<td>tidy</td>
<td>If TRUE, fixes the variable names in the tibble to remove special characters and superfluous text, and converts the variable names to a consistent style. Defaults to TRUE.</td>
</tr>
<tr>
<td>tidy_style</td>
<td>The style to convert variable names to, if tidy=TRUE. Accepts one of 'snake_case', 'camelCase' and 'period.case'. Defaults to 'snake_case'.</td>
</tr>
</tbody>
</table>

Value

A tibble with the most recent available council seat distribution or councillor affiliations.

Examples

```r
## Not run:
a <- council_seats(councillors = FALSE)
b <- council_seats(councillors = TRUE)
## End(Not run)
```

Description

Request data on all MPs eligible currently (i.e. on the current system date) to sit in the House of Commons. Includes information on their constituency.

Usage

```r
current_mps(tidy = TRUE, tidy_style = "snake_case")
```

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>tidy</td>
<td>If TRUE, fixes the variable names in the tibble to remove special characters and superfluous text, and converts the variable names to a consistent style. Defaults to TRUE.</td>
</tr>
<tr>
<td>tidy_style</td>
<td>The style to convert variable names to, if tidy=TRUE. Accepts one of 'snake_case', 'camelCase' and 'period.case'. Defaults to 'snake_case'.</td>
</tr>
</tbody>
</table>

Value

A tibble of all MPs currently eligible to sit in the House of Commons.
Examples

```r
## Not run:
x <- current_mps()
## End(Not run)
```

### la_codes

A tibble with the name, ONS code and local authority type for UK local authorities.

#### Description

A tibble with the name, ONS code and local authority type for UK local authorities.

#### Usage

```r
la_codes
```

#### Format

A tibble, with 418 rows and 3 columns.

- **name**: Local Authority Name
- **la_code**: The Local Authority code from the Office for National Statistics
- **type**: The type of local authority

#### Source

http://opencouncildata.co.uk/councils.php?model= http://geoportal.statistics.gov.uk/datasets/464be6191a434a91a5fa2f52c7433333_0

### leave_votes_west

A tibble with leave votes from the Brexit referendum in each constituency.

#### Description

A tibble with details on percentage of votes cast for leave in the 2016 referendum on British membership of the European Union in each constituency. Numbers for Britian were compiled by the House of Commons using data from Chris Hanretty’s estimates of leave vote, and supplemented with data from BBC Freedom of Information requests for more finely grained voting data. Numbers for Northern Ireland, which reported results by constituency, are taken from the BBC.
Usage

leave_votes_west

Format

A tibble, with 650 rows and 8 columns.

ons_const_id  ONS code for constituency
constituency_name  The name of the constituency.
party_2016  The party holding the constituency on 23 June 2016, the date of the referendum.
ch_leave_vote  Estimates of the leave vote produced by Chris Hanretty.
known_leave_vote_perc  The percentage of votes cast for leave, if known.
how_do_we_know  A character vector indicating the source of known constituency level Brexit votes. "Rosenbaum / Greenwood" refers to BBC reporting.
figure_to_use  Actual leave vote, where known, and ch_leave_vote otherwise. #'
known_leave_vote  A dummy variable indicating 'Yes' if the actual leave vote percentage is known, and 'No' if only the estimate by Chris Hanretty is available.

Source

https://docs.google.com/spreadsheets/d/1b71SDKPFbk-ktnxUTXmDpUP5PT299qq24orEA0_T0pmw/edit#gid=579044181
http://www.bbc.co.uk/news/uk-northern-ireland-36616830

mps_on_date  MPs on or between two dates

Description

Retrieve information on all MPs who were members of the House of Commons on a date or between two dates.

Usage

mps_on_date(
  date1 = Sys.Date(),
  date2 = NULL,
  tidy = TRUE,
  tidy_style = "snake_case"
)
Arguments

date1      The date to return the list of MPs from. Accepts character values in 'YYYY-MM-DD' format, and objects of class Date, POSIXt, POSIXct, POSIXlt or anything else than can be coerced to a date with as.Date(). Defaults to current system date.
date2      An optional query parameter. Accepts character values in 'YYYY-MM-DD' format, and objects of class Date, POSIXt, POSIXct, POSIXlt or anything else than can be coerced to a date with as.Date(). If a proper date, the function returns a list of all MPs who were members between date2 and date1. Defaults to NULL.
tidy      If TRUE, fixes the variable names in the tibble to remove special characters and superfluous text, and converts the variable names to a consistent style. Defaults to TRUE.
tidy_style The style to convert variable names to, if tidy = TRUE. Accepts one of 'snake_case', 'camelCase' and 'period.case'. Defaults to 'snake_case'.

Details

Returns information on all MPs who were members of the House of Commons on the date specified (if only one date is included as a parameter), or on or between the two dates if both are specified. Includes constituency and electoral information if the date is 2010-05-06 or later, or if the date range is entirely between 2010-05-06 and the present day. This function is identical to the mnis_mps_on_date function from the [mnis](https://cran.r-project.org/package=mnis) package, except it includes constituency data from the 2010 General Election (on 2010-05-06) onwards.

Value

A tibble with information on all MPs who were members of the House of Commons on the date specified (if only date1 is included as a parameter), or on or between the two dates if both date1 and date2 are specified.

Examples

```r
## Not run:
x <- mps_on_date(date1 = "2017-04-19", date2 = "2010-05-04")
## End(Not run)
```

---

**ni_ge_2017**

**Northern Ireland GE Results**

Description

A tibble with results from UK General Elections in Northern Ireland in 2015 and 2017.

Usage

ni_ge_2017
Format

A tibble, with 18 rows and 62 columns.

Details

Data is taken from the Electoral Commission results.

Source


parlitools

parlitools: Tools for Analysing UK Politics with R

Description

The parlitools package provides various useful tools and functions for analysing UK politics, creating political maps and retrieving data.

party_colour

A tibble with the ID, name and hex code for the official colour of a variety of political parties.

Description

Includes all political parties with MPs and a number without MPs. It also contains a `No Overall Control` party for local government. Hex codes are taken from Wikipedia.

Usage

party_colour

Format

A tibble, containing 47 rows and 3 columns.

party_id  The party ID, as assigned by the Members Name Information Service
party_name  The name of the political party
party_colour  A hex code for the party colour, as used by Wikipedia

Source

meta_attributes
http://data.parliament.uk/membersdataplayer/services/mnis/ReferenceData/Parties/
west_hex_map

---

**Description**

Originally created by Ben Flanagan at ESRI, with coordinates in Easting and Northing. The coordinates in the original shapefile were converted into Latitude and Longitude in QGIS, and the hexagon representing Ynys Mon was moved to be closer to the mainland of Wales.

Originally created by Ben Flanagan at ESRI, with coordinates in Easting and Northing. Converted coordinates into Latitude and Longitude in QGIS.

**Usage**

west_hex_map

local_hex_map

**Format**

An sf and data.frame object, containing 650 elements and 8 variables.

- **object_id**  Row Name
- **constituency_name**  The name of the constituency
- **description**  Description of constituency type
- **gss_code**  The constituency GSS (Government Statistical Service) code
- **region_name**  Name of region within the UK
- **shape_length**  The lengths of the shape
- **shape_area**  The area of shape
- **geometry**  Shape geometry/projection

**Source**

http://www.arcgis.com/home/item.html?id=15baaa6fecd54aa4b7250780b6534682

http://www.arcgis.com/home/item.html?id=593037bc399e460bb7c6c631ceff67b4
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