

# Package ‘parlitoools’

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**Type** Package

**Title** Tools for Analysing UK Politics

**Version** 0.4.1

**Maintainer** Evan Odell <evanodell191@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/parlitoools>,  
<https://github.com/EvanOdell/parlitoools/>

**BugReports** <https://github.com/EvanOdell/parlitoools/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

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**Repository** CRAN

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bes_2015	<i>2015 General Election Results</i>
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## 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/parlitoools/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

<http://www.britishelectionstudy.com/data-object/2015-bes-constituency-results-with-census-and-cand>

## References

Fieldhouse, Edward, Jane Green, Geoffrey Evans, Hermann Schmitt, Cees van der Eijk, Jonathan Mellon, and Christopher Prosser. "British Election Study, 2015: General Election Results Dataset," 2015. doi:10.13140/RG.2.1.1162.1844.

**See Also**

bes\_2017  
bes\_2019  
census\_2011

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bes_2017	<i>2017 General Election Results</i>
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**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>

**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**

<http://www.britishelectionstudy.com/data-object/2017-bes-constituency-results-with-census-and-cand>

**References**

Fieldhouse, E., J. Green., G. Evans., H. Schmitt, C. van der Eijk, J. Mellon & C. Prosser (2017) British Election Study 2017 Constituency Results file, version 1.0.

**See Also**

bes\_2015  
bes\_2019  
census\_2011

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bes\_2019

*2019 General Election Results*

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### 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/parlitoools/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/CBP-8749>

### See Also

bes\_2015

bes\_2017

census\_2011

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census_11	<i>Constituency demographic information</i>
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**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/parlitoools/articles/census-11.html>

**Source**

<http://www.britishelectionstudy.com/data-object/2017-bes-constituency-results-with-census-and-cand>

**References**

Fieldhouse, Edward, Jane Green, Geoffrey Evans, Hermann Schmitt, Cees van der Eijk, Jonathan Mellon, and Christopher Prosser. "British Election Study, 2015: General Election Results Dataset," 2015. doi:10.13140/RG.2.1.1162.1844.

**See Also**

```
bes_2015  
bes_2017  
bes_2019
```

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council_seats	<i>Council Seats</i>
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**Description**

Downloads data from [<opencouncildata.co.uk/>](http://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")
```

**Arguments**

councillors	If TRUE, downloads details on each individual councillor for each local council. If FALSE, downloads summary data for each council. Defaults to FALSE.
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'.

**Value**

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

**Examples**

```
## Not run:
a <- council_seats(councillors = FALSE)

b <- council_seats(councillors = TRUE)

## End(Not run)
```

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current_mps	<i>All current MPs</i>
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**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**

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

**Arguments**

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'.

**Value**

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

**Examples**

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

## End(Not run)
```

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la_codes	<i>A tibble with the name, ONS code and local authority type for UK local authorities.</i>
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**Description**

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

**Usage**

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

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leave_votes_west	<i>A tibble with leave votes from the Brexit referendum in each constituency.</i>
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**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 Britain 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**

Hanretty, C. (2017). Areal interpolation and the UK's referendum on EU membership. *Journal of Elections, Public Opinion and Parties*, 27(4), 466–483. <https://doi.org/10.1080/17457289.2017.1287081>

[https://docs.google.com/spreadsheets/d/1b71SDKPFbk-ktmUTXmDpUP5PT299qq24orEA0\\_T0pmw/edit#gid=579044181](https://docs.google.com/spreadsheets/d/1b71SDKPFbk-ktmUTXmDpUP5PT299qq24orEA0_T0pmw/edit#gid=579044181)

<http://www.bbc.co.uk/news/uk-northern-ireland-36616830>

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mps\_on\_date

*MPs on or between two dates*

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**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 <code>as.Date()</code> . 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 <code>as.Date()</code> . 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**

```
## 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**

<https://www.electoralcommission.org.uk/our-work/our-research/electoral-data/electoral-data-files-and>

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parltools

*parltools: Tools for Analysing UK Politics with R*

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**Description**

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

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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**

[https://en.wikipedia.org/wiki/Wikipedia:Index\\_of\\_United\\_Kingdom\\_political\\_parties\\_meta\\_attributes](https://en.wikipedia.org/wiki/Wikipedia:Index_of_United_Kingdom_political_parties_meta_attributes) <http://data.parliament.uk/membersdataplatfrom/services/mnis/ReferenceData/Parties/>

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west_hex_map	<i>A hexagonal cartogram of Westminster parliamentary constituencies, stored as a simple feature.</i>
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### 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=15baaa6fec54aa4b7250780b6534682>

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

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