# Example of how to use the MDScosa package

#### Ioana-Elena Oana

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## Load the data and the package:

```
country year_election type_cs partys_all direction_agg_all issue_agg_all
## 1
          4
                    2017
                              1
                                     40002
                                                         1
## 2
          4
                    2017
                              1
                                     40001
                                                         -1
                                                                      10
         4
## 3
                    2017
                             1
                                    40002
                                                         1
                                                                      10
          4
## 4
                    2017
                             1
                                   40002
                                                         1
                                                                      10
## 5
                    2017
                                     40001
                                                                      10
## 6
                    2017
                                     40002
                                                                      10
```

# STEP 1: Create distances and weight matrices:

```
## 2 parties were deleted as they had less than 20 observations.
```

- ## The parties that were deleted are 40010 40011
- ## 7 issues were deleted as they had less than 3 % observations.
- ## The issues that were deleted are 22 30 31 33 34 42 51  $\,$

You can change the following options:

years - If more than one election, the years can be included as a character vector;

noweight - If TRUE, the matrix of weights is not computed;

row - If TRUE specifies that weights are computed separately for each party (and within each year if the option year is specified)

cell - If TRUE weights are computed separately for each election (100% =one election)

min - Minimum number of observations for a party in an election

imin - Minimum % of observations for an issue to be included

#### STEP 2: Create distances and coordinates:

## Step 3: Rescale coordinates:

## Step 4: Rotate coordinates:

rescalemat - the rescaled coordinates produced in Step 3;

WF - the label of the welfare issue, in this case "10"

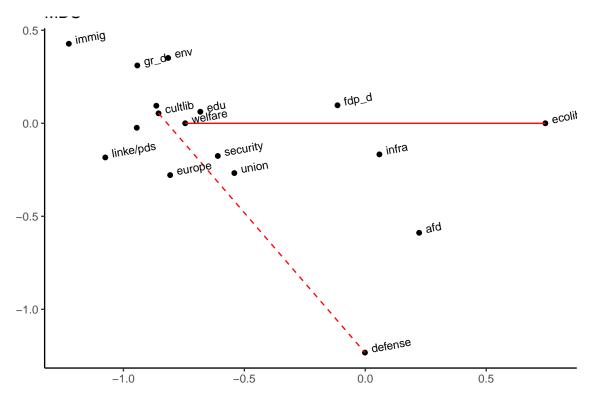
EL - the label of the ecolib issue, in this case "21"

# Step 5: Plotting:

Optional:

We can modify the labels as these are listed as attributes for the party and issue vars:

And we can plot:



coordmat - the rotated coordinates produced in Step 4;

labels - vector containing any new labels in the same order as in coordmat, if NULL labels are taken directly from coordmat

point\_col - colour of the dots;

point\_size - size of the dots;

text col - colour of labels;

text\_size - size of labels;

line\_col - colour of lines between issues;

title - title for the entire plot;

WF - the label of the welfare issue in coordmat

EL - the label of the ecolib issue in coordmat

CL - the label of the cultlib issue in coordmat

DF - the label of the defense issue in coordmat

#### How to cite:

To cite package MDScods in publications use:

Ioana-Elena Oana. 2020. MDS<br/>cosa: Multidimensional Scaling (MDS) for COSA data. R<br/> package version 1.0. https://github.com/nenaoana/MDS<br/>cosa