# Package: diskurs (via r-universe)

October 22, 2026

**Title** An R Package To Handle Discourse Network Data

**Version** 0.0.6

**Description** An R package to handle discourse network data as a bipartite graph of actor nodes, qualified stance edges and statement (belief) nodes.

**License** MIT + file LICENSE

**Encoding** UTF-8

**Roxygen** list(markdown = TRUE)

**RoxygenNote** 7.3.3

**Imports** dplyr, ggraph, glue, igraph, lubridate, pbapply, S7, tibble, tidygraph

**Depends** R (>= 4.1.0)

**LazyData** true

**Suggests** knitr, rmarkdown, testthat (>= 3.0.0)

**VignetteBuilder** knitr

**Config/testthat/edition** 3

**Config/pak/sysreqs** libfontconfig1-dev libfreetype6-dev libglpk-dev libicu-dev libxml2-dev

**Repository** https://urban-sustainability-lab-zurich.r-universe.dev

**Date/Publication** 2025-11-26 20:17:23 UTC

**RemoteUrl** https://github.com/urban-sustainability-lab-zurich/diskurs

**RemoteRef** HEAD

**RemoteSha** 106b3ccc05b880d089fb0ede681afaf0a20e87da

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`aggregate_discourse_graph` *Aggregate discourse graph*

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## Description

Aggregate discourse graph

## Usage

```
aggregate_discourse_graph(disc_g, keep_only_highest = FALSE)
```

## Arguments

| | |
|---|---|
| `disc_g` | The discourse graph to aggregate |
| `keep_only_highest` | Should only the most prevalent category of edges per actor-statement pair be kept? |

## Value

An object of type discourse_graph with property aggregated set to TRUE

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`explode_graph` *Explode discourse graph (make statement nodes qualified)*

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## Description

This function "explodes" a discourse graph, making all statement nodes into qualified nodes.

## Usage

```
explode_graph(disc_g, stance_subset = SUPPORTED_STANCE_CLASSES)
```

## Arguments

| | |
|---|---|
| `disc_g` | A discourse graph object |
| `stance_subset` | Character vector of stance classes. Restrict explosion to a specific set of stance classes only? Defaults to all supported. |

## get_igraph *Extract igraph object from discourse graph*

### Description

Extract igraph object from discourse graph

### Arguments

| | |
|---|---|
| g | The discourse graph to extract igraph object from |

### Value

An object of class igraph

## get_incmat *Get incidence matrix of discourse graph*

### Description

Get incidence matrix of discourse graph

### Usage

```
get_incmat(disc_g, make_binary = FALSE)
```

### Arguments

| | |
|---|---|
| disc_g | A discourse graph object |
| make_binary | Logical. Dichotomize/ make binary? Defaults to FALSE, which returns a valued matrix with the number of stances in entries. |

## get_tbl_graph *Extract tidygraph object from discourse graph*

### Description

Extract tidygraph object from discourse graph

### Arguments

| | |
|---|---|
| g | The discourse graph to extract tidygraph object from |

### Value

An object of class tidygraph

## is.discourse_graph *Check if object is of type discourse_graph*

### Description

Check if object is of type discourse_graph

### Usage

```
is.discourse_graph(object)
```

### Arguments

| | |
|---|---|
| object | The object to evaluate |

### Value

boolean

### Examples

```
is.discourse_graph(diskurs::discourse_graph_example)
```

## load_discourse_graph *Load discourse graph from nodelist of actors/ statements and edgelist of expressed stances*

### Description

Load discourse graph from nodelist of actors/ statements and edgelist of expressed stances

### Usage

```
load_discourse_graph(nodelist, edgelist)
```

### Arguments

| | |
|---|---|
| nodelist | A data frame containing the following columns: nodeid: integer vector of unique node identifiers name: a unique name assigned to a node label: the label of the node mode: one of 'actor' or 'statement' |
| edgelist | An edgelist specifying qualified relations between actors and statements. Takes the form of a data frame containing the following columns: from: actor node ids expressing stances to: statement node ids toward which statements are expressed stance: One of 'support', 'opposition' or 'irrelevant', capturing the qualifier for the stance expression timestamp: A timestamp given the time the stance was expressed |

### Value

A discourse graph object

### Examples

```
diskurs::load_discourse_graph(diskurs::nodelist_example,diskurs::edgelist_example)
```

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## plot *Plot discourse graph*

---

### Description

Plot discourse graph

### Arguments

| | |
|---|---|
| disc_g | A discourse graph object |
| layout_choice | Layout choice to pass to ggraph. Defaults to "kk" |
| label_nodes | Logical: should nodes be labelled? Defaults to TRUE |
| edge_alpha | Transparency of edges. Defaults to 1 |
| arrow_start_cap | Space from arrow start cap. Defaults to 6. |
| arrow_end_cap | Space from end of arrow. Defaults to 10. |

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## remove_isolates *Remove isolates from discourse graph object*

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### Description

Remove isolates from discourse graph object

### Usage

```
remove_isolates(disc_g)
```

### Arguments

| | |
|---|---|
| disc_g | A discourse graph object |

### Value

A discourse graph object with isolated nodes (actors with no expressed stances or statements with no refering stances) removed

## time_slice_graph *Time-slice graph*

### Description

Time-slice graph

### Usage

```
time_slice_graph(disc_g, start_date, end_date)
```

### Arguments

| | |
|---|---|
| disc_g | Discourse graph object |
| start_date | The beginning of the time slice in a format convertible by lubridate::as_date |
| end_date | The end of the time slice in a format convertible by lubridate::as_date |

### Value

A discourse graph object subset to include only edges within the time slice given by start_date and end_date

## time_sliced_graph_list *Create a list of time-sliced graphs*

### Description

Create a list of time-sliced graphs

### Usage

```
time_sliced_graph_list(
  disc_g,
  time_window,
  date_range,
  step_interval = "month",
  aggregate = FALSE,
  remove_isolates = FALSE,
  keep_only_highest = FALSE
)
```

## Arguments

| | |
|---|---|
| `disc_g` | A discourse graph object |
| `time_window` | The slice window as a time period object, eg. created with months(48) |
| `date_range` | Character vector of length 2 with a start and end date coercible to date by lubridate::as_date() |
| `step_interval` | The step interval for time slices. Defaults to "month". |
| `aggregate` | Logical. Aggregate the time sliced graphs? Defaults to FALSE. |
| `remove_isolates` | Logical. Remove isolates per time slices? Defaults to FALSE. |
| `keep_only_highest` | Logical. If aggregate is TRUE, keep only most prevalent stance category per time slice? Defaults to FALSE. |

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