

# Package ‘rD3plot’

October 14, 2022

**Type** Package

**Version** 1.0.25

**Date** 2021-10-27

**Title** Interactive Networks, Timelines, Barplots, Galleries with 'D3.js'

## Description

Creates interactive analytic graphs with 'R'. It joins the data analysis power of R and the visualization libraries of JavaScript in one package. The package provides interactive networks, timelines, barplots, image galleries and evolving networks. Graphs are represented as 'D3.js' graphs embedded in a web page ready for its interactive analysis and exploration.

**License** GPL-2 | GPL-3

**Depends** R (>= 3.5.0)

**Imports** igraph (>= 1.0.1)

**Suggests** shiny

**NeedsCompilation** no

**Maintainer** Modesto Escobar <modesto@usal.es>

**Encoding** UTF-8

**Author** Modesto Escobar [aut, cph, cre]

(<<https://orcid.org/0000-0003-2072-6071>>),

Carlos Prieto [aut] (<<https://orcid.org/0000-0001-8178-9768>>),

David Barrios [aut]

**Repository** CRAN

**Date/Publication** 2021-10-28 17:20:02 UTC

## R topics documented:

|                 |   |
|-----------------|---|
| rD3plot-package | 2 |
| barplot_rd3     | 2 |
| evolNetwork_rd3 | 4 |
| finches         | 5 |
| galapagos       | 6 |

|                            |    |
|----------------------------|----|
| gallery_rd3 . . . . .      | 6  |
| miserables . . . . .       | 8  |
| network_rd3 . . . . .      | 9  |
| rd3_fromIgraph . . . . .   | 12 |
| rd3_layoutCircle . . . . . | 13 |
| rd3_layoutGrid . . . . .   | 14 |
| rd3_multigraph . . . . .   | 15 |
| rd3_toIgraph . . . . .     | 16 |
| shiny_rd3 . . . . .        | 17 |
| sociologists . . . . .     | 17 |
| timeline_rd3 . . . . .     | 18 |

|              |           |
|--------------|-----------|
| <b>Index</b> | <b>20</b> |
|--------------|-----------|

---

|                 |                             |
|-----------------|-----------------------------|
| rD3plot-package | <i>The rD3plot package.</i> |
|-----------------|-----------------------------|

---

### Description

Creates interactive analytic graphs with 'R'. It joins the data analysis power of R and the visualization libraries of JavaScript in one package. The package provides interactive networks, timelines, barplots, image galleries and evolving networks. Graphs are represented as D3 graphs embedded in a web page ready for its interactive analysis and exploration

---

|             |                           |
|-------------|---------------------------|
| barplot_rd3 | <i>Networked barplot.</i> |
|-------------|---------------------------|

---

### Description

barplot\_rd3 produces an interactive barplot of coincidences between events.

### Usage

```
barplot_rd3(events, links, name = NULL, select = NULL,
            source = NULL, target = NULL,
            label = NULL, text = NULL, color = NULL,
            incidences = NULL, coincidences = NULL,
            expected = NULL, confidence = NULL, level = .95, significance = NULL,
            sort = NULL, decreasing = FALSE,
            scalebar = FALSE, defaultColor = "#1f77b4", note = NULL, cex = 1,
            language = c("en", "es", "ca"), dir = NULL)
```

**Arguments**

|              |  |
|--------------|--|
| events       | a data frame with at least two columns of event names (by default 1st column) and incidences (2nd column). Columns for each variable can be specified at name and incidences parameters.                                     |
| links        | a data frame with at least three columns indicating source event, target event and number of coincidences (in that order). Columns assigned to each variable can be specified at source, target and coincidences parameters. |
| name         | column name with event names in the events data frame.   |
| source       | column name with source names in the links data frame.   |
| target       | column name with target names in the links data frame.   |
| select       | event name to start the visualization.   |
| label        | column name with labels in the events data frame.  |
| text         | column name with html text in the events data frame.   |
| color        | column name with color variable in the events data frame.  |
| coincidences | column name with coincidences in the links data frame.   |
| incidences   | column name with incidences in the events data frame.  |
| expected     | column name with expected coincidences in the links data frame.  |
| confidence   | column name with confidence interval in the links data frame.  |
| level        | confidence level   |
| significance | column name with significance in the links data frame.   |
| sort         | column name in the events data frame to order the bars in the graph.   |
| decreasing   | order the events in a decreasing order.  |
| scalebar     | bars are represented filling all the screen height.  |
| defaultColor | a string giving a valid html color.  |
| note         | the lower title of the graph.  |
| cex          | a number giving the amount by which plotting text should be scaled relative to the default.  |
| language     | a character string indicating the language of the graph (en=english (default); es=spanish; ca=catalan).  |
| dir          | a character string representing the directory where the web files will be saved.   |

**Value**

Object of class barplot\_rd3.

**Author(s)**

Modesto Escobar, Department of Sociology and Communication, University of Salamanca.

**Examples**

```

data(finches)
data(galapagos)
barplot <- barplot_rd3(finches, galapagos, select="Certhidea olivacea",
                      note="Data source: Sanderson (2000)")
## Not run:
plot(barplot)

## End(Not run)

```

---

|                 |                                  |
|-----------------|----------------------------------|
| evolNetwork_rd3 | <i>Create evolving networks.</i> |
|-----------------|----------------------------------|

---

**Description**

evolNetwork\_rd3 produce an evolving network.

**Usage**

```
evolNetwork_rd3(..., frame = 0, speed = 50, dir = NULL)
```

**Arguments**

|       |   |
|-------|---|
| ...   | network_rd3 objects that will be integrated as temporal frames in the evolving network. |
| frame | a frame ordinal position where the playback will start.                                 |
| speed | a percentage value for the playback speed of network frames.                            |
| dir   | a "character" string representing the directory where the graph will be saved.          |

**Value**

This function returns a network\_rd3 object.

**Author(s)**

Modesto Escobar, Department of Sociology and Communication, University of Salamanca.

**Examples**

```

nets <- list()
N <- data.frame(name=paste0("node",1:2))
E <- data.frame(Source="node1",Target="node2")
nets[["net1"]] <- network_rd3(N, E, repulsion=98, label=FALSE)

for(i in 3:100){
  N <- rbind(N,data.frame(name=paste0("node",i)))
  E <- rbind(E,data.frame(Source=paste0("node",i-1),Target=paste0("node",i)))
  nets[[paste0("net",i-1)]] <- network_rd3(N, E, repulsion=100-i, label=FALSE)
}

```

```
}  
  
nets$speed=100  
  
net <- do.call(evolveNetwork_rd3,nets)  
  
## Not run:  
plot(net)  
  
## End(Not run)
```

---

finches

*Data: Finches' attributes in Galapagos islands.*

---

## Description

Data frame with events as result.

## Usage

```
data("finches")
```

## Format

A data frame with 13 observations (finches) and 4 variables (name and characteristics):

name : Genus and species of the finche

frequency : number of islands where the finche can be found

type : Genus of the finche

species : name of the file containing the picture of the finche

## References

Sanderson, James (2000). Testing Ecological Patterns: A Well-known Algorithm from Computer Science Aids the Evaluation of Species Distributions. *American Scientist*, 88, pp. 332-339.

## Examples

```
data(finches)  
head(finches,10)
```

---

galapagos

*Data: Finches' presence in Galapagos Islands.*

---

### Description

Data frame containing data of finches coopperance in the Galagos Islands.

### Usage

```
data("galapagos")
```

### Format

This links data set consists of three variables of length 60:

Source : Finche 1

Target : Finche 2

coincidences : number of islands they share

### References

Sanderson, James (2000). Testing Ecological Patterns: A Well-known Algorithm from Computer Science Aids the Evaluation of Species Distributions. *American Scientist*, 88, pp. 332-339.

### Examples

```
data(galapagos)
head(galapagos,10)
```

---

gallery\_rd3

*Images in a grid gallery.*

---

### Description

gallery\_rd3 produces an interactive image gallery.

### Usage

```
gallery_rd3(nodes, name = NULL, label = NULL, color = NULL,
  ntext = NULL, info = NULL, image = NULL, zoom = 1,
  itemsPerRow = NULL, main = NULL, note = NULL,
  showLegend = TRUE, frequencis = FALSE,
  help = NULL, helpOn = FALSE, description = NULL,
  descriptionWidth = NULL, roundedItems = FALSE, controls = 1:2,
  cex = 1, language = c("en", "es", "ca"), dir = NULL)
```

**Arguments**

|                  |   |
|------------------|---|
| nodes            | a data frame with at least three columns of names, start and end.   |
| name             | column name with image names in the nodes data frame.   |
| label            | column name with image labels in the nodes data frame.  |
| color            | column name with image background color variable in the nodes data frame.   |
| ntext            | column name with html text in the nodes data frame.   |
| info             | column name with information to display in a panel in the nodes data frame.   |
| image            | column name which indicates the image paths in the nodes data frame.  |
| zoom             | a number between 0.1 and 10 as initial displaying zoom.   |
| itemsPerRow      | number of items in each row.  |
| main             | upper title of the graph.   |
| note             | lower title of the graph.   |
| frequencies      | a logical value true if barplots representing node attributes frequencies will be added to the final graph.   |
| showLegend       | a logical value true if the legend is to be shown.  |
| help             | a character string indicating a help text of the graph.   |
| helpOn           | Should the help be shown at the beginning?  |
| description      | a character string indicating a description text for the graph.   |
| descriptionWidth | a percentage indicating a width for the description panel (25 by default).  |
| roundedItems     | Display items with rounded borders.   |
| controls         | a numeric vector indicating which controls will be shown. 1 = topbar, 2 = export buttons. NULL hide all controls, negative values deny each control and 0 deny all. |
| cex              | number indicating the amount by which plotting text should be scaled relative to the default.   |
| language         | a character string indicating the language of the graph (en=english (default); es=spanish; ca=catalan).   |
| dir              | a character string representing the directory where the web files will be saved.  |

**Value**

Object of class gallery\_rd3.

**Author(s)**

Modesto Escobar, Department of Sociology and Communication, University of Salamanca.

## Examples

```
data("finches")
finches$species <- system.file("extdata", finches$species,
  package="rD3plot") # copy path to the species field
gallery <- gallery_rd3(finches, image="species", main="Species in Galapagos Islands",
  note="Data source: Sanderson (2000)")
## Not run:
plot(gallery)

## End(Not run)
```

---

miserables

*Coappearance network of characters in Les Miserables (undirected)*

---

## Description

A list of two datasets, vertices and edges, containing data on characters and their coappearance in chapters in Victor Hugo's Les Miserables.

## Usage

```
data("miserables")
```

## Format

A list of two data frames:

- the links data set consists of three variables of length 254:
  - Source: Character 1
  - Target: Character 2
  - value: number of times they appear together in a chapter of Les Miserables
- the nodes data set consists of two variables with information on 77 characters:
  - name: Character name
  - group: Character group

## References

D. E. Knuth, The Stanford GraphBase: A Platform for Combinatorial Computing, Addison-Wesley, Reading, MA (1993).

## Examples

```
data(miserables)
head(miserables, 10)
```



---

network\_rd3

*Interactive network.*


---

## Description

network\_rd3 produces a network\_rd3 object ready for its representation as an interactive network in a web browser. Its input has to be two data.frames: one of attributes of events or nodes, and the other of attributes of the edges or links.

## Usage

```
network_rd3(nodes = NULL, links = NULL, tree = NULL,
            community = NULL, layout = NULL,
            name = NULL, label = NULL, group = NULL, labelSize = NULL,
            size = NULL, color = NULL, shape = NULL, legend = NULL,
            sort = NULL, decreasing = FALSE, ntext = NULL, info = NULL,
            image = NULL, imageNames = NULL,
            nodeBipolar = FALSE, nodeFilter = NULL, degreeFilter = NULL,
            source = NULL, target = NULL,
            lwidth = NULL, lweight = NULL, lcolor = NULL, ltext = NULL,
            intensity = NULL, linkBipolar = FALSE, linkFilter = NULL,
            repulsion = 25, distance = 10, zoom = 1,
            fixed = showCoordinates, limits = NULL,
            main = NULL, note = NULL, showCoordinates = FALSE, showArrows = FALSE,
            showLegend = TRUE, frequencies = FALSE, showAxes = FALSE,
            axesLabels = NULL, scenarios = NULL, help = NULL, helpOn = FALSE,
            mode = c("network", "heatmap"), controls = 1:4, cex = 1,
            background = NULL, defaultColor = "#1f77b4",
            language = c("en", "es", "ca"), dir = NULL)
```

## Arguments

|        |   |
|--------|---|
| nodes  | a data frame with at least one column of node names.  |
| links  | a data frame with at least two columns with source and target node names.   |
| tree   | a data frame with two columns: source and target, describing relationships between nodes. It indicates a hierarchy between nodes which can be dynamically explored. |
| name   | name of the column with names in the nodes data frame. By default, if language="en", name is "name".  |
| source | name of the column with source names in the links data frame.   |
| target | name of the column with target names in the links data frame.   |
| label  | name of the column with labels in the nodes data frame.   |
| group  | name of the column with groups in the nodes data frame.   |

|              |   |
|--------------|---|
| community    | algorithm to make communities: edge_betweenness("ed"), fast_greedy("fa"), label_prop("la"), leiden_eigen("le"), louvain("lo"), optimal("op"), spinglass("sp"), walktrap("wa")             |
| labelSize    | name of the column with label size in the nodes data frame.   |
| size         | name of the column with size in the nodes data frame.   |
| color        | name of the column with color variable in the nodes data frame.   |
| shape        | name of the column with shape variable in the nodes data frame.   |
| legend       | name of the column with the variable to represent as a legend in the nodes data frame.  |
| ntext        | name of the column with html text in the nodes data frame.  |
| info         | name of the column with information to display in a panel in the nodes data frame.  |
| sort         | name of the column with node order in the nodes data frame (only for heatmap).  |
| decreasing   | decreasing or increasing sort of the nodes (only for heatmap).  |
| intensity    | name of the column with intensity variable in the links data frame (only for heatmap).  |
| lwidth       | name of the column with width variable in the links data frame.   |
| lweight      | name of the column with weight variable in the links data frame.  |
| lcolor       | name of the column with color variable in the links data frame.   |
| ltext        | name of the column with labels in the links data frame.   |
| nodeFilter   | a character string with a condition for filtering nodes.  |
| linkFilter   | a character string with a condition for filtering links.  |
| degreeFilter | numeric vector to filter the resulting network by degree. Input can be a number which specifies the minimum degree or two numbers which specify the lower and upper limits of the filter. |
| nodeBipolar  | a logical value that polarizes negative and positive node values in the graphical representation. Indicates whether the color key should be made symmetric about 0.                       |
| linkBipolar  | a logical value that polarizes negative and positive link values in the graphical representation. Indicates whether the color key should be made symmetric about 0.                       |
| defaultColor | a character vector giving a valid html color for node representation.   |
| repulsion    | a percentage for repulsion between nodes.   |
| distance     | a percentage for distance of links.   |
| zoom         | a number between 0.1 and 10 to start displaying zoom.   |
| fixed        | prevent nodes from being dragged.   |
| scenarios    | a note showing number of scenarios.   |
| main         | upper title of the graph.   |
| note         | lower title of the graph.   |

|                 |  |
|-----------------|--|
| frequencies     | a logical value true if barplots representing node attributes frequencies will be added to the final graph.  |
| help            | help text of the graph.  |
| help0n          | Should the help be shown at the beginning?   |
| background      | background color or image path of the graph.   |
| layout          | a matrix with two columns with x/y coordinates or an algorithm to calculate the static layout of the network: davidson.harel drl("da"), circle("ci"), Force-Atlas-2("fo"), fruchterman.reingold("fr"), gem("ge"), grid("gr"), kamada.kawai("ka"), lgl("lg"), mds("md"), random("ra"), reingold.tilford("re"), star("sta"), sugiyama("sug") |
| limits          | vector indicating the layout limits, must be a numeric vector of length 4 on this order: x_min, y_min, x_max, y_max.   |
| cex             | number indicating the amount by which plotting text should be scaled relative to the default.  |
| controls        | a numeric vector indicating which controls will be shown. 1 = sidebar, 2 = selection buttons, 3 = export buttons, 4 = nodes table, 5 = links table. NULL hide all controls, negative values deny each control and 0 deny all.  |
| mode            | a character vector indicating the graph mode allowed: network, heatmap or both (both by default).  |
| showCoordinates | a logical value true if the coordinates are to be shown in tables and axes. Default = FALSE.   |
| showArrows      | a logical value true if the directional arrows are to be shown. Default = FALSE.   |
| showLegend      | a logical value true if the legend is to be shown.   |
| showAxes        | a logical value true if the axes are to be shown.  |
| axesLabels      | a character vector giving the axes names.  |
| language        | a character string indicating the language of the graph (en=english (default); es=spanish; ca=catalan).  |
| image           | name of the column with the path to node image files in the nodes data frame.  |
| imageNames      | name of the column with names for image files in the nodes data frame which will be shown in the legend.   |
| dir             | a "character" string representing the directory where the resulting web files will be saved.   |

### Value

This function returns a `network_rd3` object. If the `'dir'` attribute is specified, the function creates a folder in the computer with an HTML document named `index.html` which contains the produced graph. This file can be directly opened with your browser and sent to a web server to work properly.

### Note

nodes and links arguments can be substituted by a `network_rd3` object to add or change options to it.

**Author(s)**

Modesto Escobar, Department of Sociology and Communication, University of Salamanca.

**Examples**

```
data(miserables)
net <- network_rd3(miserables$nodes, miserables$links,
                  size="degree", color="group", lwidth="value")
## Not run:
plot(net)

## End(Not run)
```

---

rd3\_fromIgraph

*Produce interactive networks from 'igraph' objects.*

---

**Description**

rd3\_fromIgraph produce an interactive network from an 'igraph' object.

**Usage**

```
rd3_fromIgraph(G, ...)
```

**Arguments**

G                    an igraph object.  
...                   Any [network\\_rd3](#) argument.

**Value**

This function returns a network\_rd3 object.

**Author(s)**

Modesto Escobar, Department of Sociology and Communication, University of Salamanca.

**Examples**

```
g <- igraph::make_ring(10)
rd3_fromIgraph(g)
```

---

rd3\_layoutCircle      *Produce a circle layout of any number of nodes.*

---

**Description**

rd3\_layoutCircle produces a circle layout of any number of nodes.

**Usage**

```
rd3_layoutCircle(N, nodes=seq_len(nrow(N)), deg=0, name=NULL)
```

**Arguments**

|       |  |
|-------|--|
| N     | a data frame of nodes.   |
| nodes | a vector specifying the node names included in the layout calculation. |
| deg   | rotation degrees.  |
| name  | column name with node names in the N data frame.                       |

**Value**

'rd3\_layoutCircle' produces a circle layout of any number of nodes.

**Author(s)**

Modesto Escobar, Department of Sociology and Communication, University of Salamanca.

**Examples**

```
A <- data.frame(name=letters)
L <- rd3_layoutCircle(A, name="name")
net <- network_rd3(A, layout=L)
## Not run:
plot(net)

## End(Not run)
```

---

rd3\_layoutGrid      *Produce a grid layout of any number of nodes.*

---

### Description

rd3\_layoutGrid produces a grid layout of any number of nodes.

### Usage

```
rd3_layoutGrid(N, string, name=NULL, byrow=FALSE)
```

### Arguments

|        |  |
|--------|--|
| N      | a data frame of nodes.                             |
| string | a character vector specifying grouped nodes.       |
| name   | column name with node names in the N data frame.   |
| byrow  | order nodes by row (default) or by columns (FALSE) |

### Value

'rd3\_layoutGrid' produces a grid layout of any number of nodes.

### Author(s)

Modesto Escobar, Department of Sociology and Communication, University of Salamanca.

### Examples

```
A <- data.frame(name=letters)
L <- rd3_layoutGrid(A,"a,b,c,d,e.f,g,h,i,j.k,l,m,n,o,p.q,r,s,t,u.v,w,x,y,z", "name")
net <- network_rd3(A,layout=L)
## Not run:
plot(net)

## End(Not run)
```

---

rd3\_multigraph                    *Integrates interactive 'rD3plot' graphs.*

---

### Description

rd3\_multigraph produce an interactive multi graph with the integration of 'rD3plot' graphs in the final result.

### Usage

```
rd3_multigraph(..., mode = c("default", "parallel", "frame"),
               frame = 0, speed = 50, dir = "MultiGraph", show = TRUE)
```

### Arguments

|       |   |
|-------|---|
| ...   | rD3plot graphs (network_rd3, barplot_rd3, timeplot_rd3) objects or string paths to html "directories".  |
| mode  | a string specifying the displaying mode:<br><b>default</b> Graphs are shown one by one by selectingThe proposal category, which describes what sort of object will be viewed (a label from A to G).<br><b>parallel</b> Shows two graphs at once by splitting the layout into two parts.<br><b>frame</b> Integrates dynamic networks as an interactive evolving network.). |
| frame | number of frame to start a dynamic network.   |
| speed | a percentage for frame speed in dynamic networks.   |
| dir   | a "character" string representing the directory where the graph will be saved.  |
| show  | a logical value true if the graph is to be shown. Default = TRUE.   |

### Value

The function creates a folder in your computer with an HTML document named index.html which contains the graph. This file can be directly opened with your browser.

### Author(s)

Modesto Escobar, Department of Sociology and Communication, University of Salamanca.

### Examples

```
## Not run:
data(miserables)
net <- network_rd3(miserables$nodes, miserables$links,
                  size="degree", color="group", lwidth="value")

data(finches)
data(galapagos)
bar <- barplot_rd3(finches, galapagos, select="Certhidea olivacea")
```

```
data(sociologists)
time <- timeline_rd3(sociologists,"name","birth","death","birthcountry")

rd3_multigraph(network=net, barplot=bar, timeline=time)

## End(Not run)
```

---

rd3\_toIgraph            *'igraph' object.*

---

### Description

creates an igraph object from a network\_rd3 object.

### Usage

```
rd3_toIgraph(net)
```

### Arguments

net                    is a network\_rd3 object. See [network\\_rd3](#)

### Value

An igraph object.

### Author(s)

Modesto Escobar, Department of Sociology and Communication, University of Salamanca.

### Examples

```
# A character column (with separator)
data(miserables)
net <- network_rd3(miserables$nodes, miserables$links,
  size="degree", color="group", lwidth="value")
rd3_toIgraph(net) # conversion into a igraph object
```



---

`shiny_rd3`*Include rD3plot graphs in 'Shiny'.*

---

**Description**

Load a rD3plot graph to display in 'Shiny'.

**Usage**

```
shiny_rd3(x)
```

**Arguments**

`x` is a `network_rd3`, `barplot_rd3` or `timeplot_rd3` object.

**Value**

This function returns a `shiny.tag` object.

**Author(s)**

Modesto Escobar, Department of Sociology and Communication, University of Salamanca.

---

`sociologists`*Data: Sociologists born in the 19th century.*

---

**Description**

Data frame with names, birth and death year data, birth country and movement.

**Usage**

```
data("sociologists")
```

**Format**

A data frame with 33 observations and the following 4 variables (events) to study coincidences in time:

`name` : name and last name of the sociologist

`birth` : birth year

`death` : death year

`birthcountry` : birth country

`movements` : movement or school of thought

**Source**

Own elaboration from manuals of sociology.

**Examples**

```
data(sociologists)
head(sociologists, 10)
tail(sociologists, 10)
```

---

|              |                                   |
|--------------|-----------------------------------|
| timeline_rd3 | <i>Interactive time-bar plot.</i> |
|--------------|-----------------------------------|

---

**Description**

timeline\_rd3 produces a timeline\_rd3 object ready for its representation as an interactive time line in a web browser.

**Usage**

```
timeline_rd3(
  periods, name = "name", start = "start", end = "end", group = NULL,
  text = NULL, main = NULL, note = NULL, info = NULL,
  events = NULL, eventNames = "name", eventPeriod = "period",
  eventTime = "date", eventColor = NULL, eventShape = NULL,
  cex = 1, language = c("en", "es", "ca"), dir = NULL)
```

**Arguments**

|             |  |
|-------------|--|
| periods     | a data frame with at least three columns describing period names, start and end.                                       |
| name        | name of the column with names in the periods data frame.   |
| start       | name of the column with starts in the periods data frame.  |
| end         | name of the column with ends in the periods data frame.  |
| group       | name of the column with a grouping criteria in the periods data frame.   |
| text        | name of the column with a descriptive text of periods (html format) in the periods data frame.                         |
| main        | upper title of the graph.  |
| note        | lower title of the graph.  |
| info        | name of the column in the periods data frame with information to display on the information panel.                     |
| events      | a data frame of events related to periods (shown as dots) with three columns: interval name, event name and event date |
| eventNames  | name of the column with event identifiers in the events data frame.  |
| eventPeriod | name of the column with interval identifiers in the events data frame.   |
| eventTime   | name of the column with time points in the events data frame.  |

|                         |   |
|-------------------------|---|
| <code>eventColor</code> | name of the column with the color criteria in the events data frame.                                    |
| <code>eventShape</code> | name of the column with the shape criteria in the events data frame.                                    |
| <code>cex</code>        | number indicating the amount by which plotting text should be scaled relative to the default.           |
| <code>language</code>   | a character string indicating the language of the graph (en=english (default); es=spanish; ca=catalan). |
| <code>dir</code>        | a "character" string representing the directory where the web files will be saved.                      |

**Value**

Object of class `timeline_rd3`.

**Author(s)**

Modesto Escobar, Department of Sociology and Communication, University of Salamanca.

**Examples**

```
# Database of 19th century sociologists
data(sociologists)
timeline <- timeline_rd3(sociologists,"name","birth","death","birthcountry")
## Not run:
plot(timeline)

## End(Not run)
```

# Index

## \* datasets

finches, [5](#)

galapagos, [6](#)

miserables, [8](#)

sociologists, [17](#)

barplot\_rd3, [2](#)

evolNetwork\_rd3, [4](#)

finches, [5](#)

galapagos, [6](#)

gallery\_rd3, [6](#)

miserables, [8](#)

network\_rd3, [9](#), [12](#), [16](#)

rd3\_fromIgraph, [12](#)

rd3\_layoutCircle, [13](#)

rd3\_layoutGrid, [14](#)

rd3\_multigraph, [15](#)

rd3\_toIgraph, [16](#)

rD3plot-package, [2](#)

shiny\_rd3, [17](#)

sociologists, [17](#)

timeline\_rd3, [18](#)