Package ‘chronochrt’

August 2, 2021

Title Creating Chronological Charts with R
Version 0.1.0
Date 2021-07-26
Description Easy way to draw chronological charts from tables, aiming to include an intuitive environment for anyone new to R. Includes ‘ggplot2’ geoms and theme for chronological charts.
Language en-GB
License GPL-3
URL https://gitlab.com/roset/chronochrt
BugReports https://gitlab.com/roset/chronochrt/-/issues
Imports dplyr (>= 1.0.0), ggplot2, grid, magick, magrittr, readr, tibble, tidyR, rlang, tidyselect
Suggests readxl, testthat, knitr, rmarkdown, covr, vdiffr
Encoding UTF-8
RoxygenNote 7.1.1
VignetteBuilder knitr
NeedsCompilation no
Author Thomas Rose [aut, cre] (<https://orcid.org/0000-0002-8186-3566>), Chiara Girotto [aut] (<https://orcid.org/0000-0001-6412-342X>)
Maintainer Thomas Rose <thomas.rose@daad-alumni.de>
Repository CRAN
Date/Publication 2021-08-02 08:30:02 UTC

R topics documented:

  add_chron ................................................................. 2
  add_label_image ....................................................... 4
  add_label_text ......................................................... 6
  arrange_regions ....................................................... 7
  chronochrt ............................................................ 8
add_chron

Create or add chronological data

Description

This function either creates a data set with chronological data which can be directly used for plotting or it adds chronological data to such a data set.

Usage

```r
add_chron(
  data,
  region,
  name,
  start,
  end,
  level = 1,
  add = FALSE,
  new_table = FALSE,
  ...
)
```

Arguments

data

A data set with chronological data. Must not be provided if `new_table = FALSE`.

region

A character string or character vector with the title(s) of the section(s).

name

A character string or character vector with the name(s) of the chronological unit(s).

start

A number or a vector with the start date(s) of the chronological unit(s). Use negative values for BCE dates. See Details how to handle insecure start dates.

d\n
A number or a vector with the end date(s) of the chronological unit(s). Use negative values for BCE dates. See Details how to handle insecure end dates.

level

A whole number or numeric vector of whole numbers (i.e. 1, 2, 3, ...) with the level(s) of the chronological unit(s). The default is 1, i.e. the top unit.

add

A logical value (TRUE or FALSE) or a logical vector signalling whether the chronological units within a geographical area should be drawn separately (TRUE) or not (FALSE, the default).
**add_chron**

`new_table` Logical operator. If **TRUE**, a new data set will be created. If **FALSE**, the default, the input will be added to an existing data set.

Further arguments or columns to include in or additional arguments passed to `tibble` or `add_row`.

**Details**

If the input is in the same order as the arguments, the arguments do not need to be explicitly named. Values can be provided as one number or one character string, if they are the same for all other data. If not, they must be provided as vectors with equal lengths.

Start and end of neighbouring chronological units as well as respective oldest sub-units must be the same to achieve good plotting results. Dates in BCE must provided as negative data. Currently, only years can be handled (i.e. 2020 but not 20.10.2020). The package can handle the year 0.

If start and end dates are not certain or the change between chronological units is regarded a period, dates must be given as character string in the format "1000/2000". Consistency is required for matching start and end dates to avoid unclean or chaotic border orientation in the plot.

The `level` indicates the position of the chronological unit. `level = 1` denotes a top chronological unit (e.g. Ha), a sub-unit (e.g. Ha B) is `level = 2`, a sub-sub-unit (e.g. Ha B1) `level = 3` etc. The parameter `add` indicates whether the respective chronological unit(s) should be plotted in the same or an additional column. This might be useful if competing chronologies in one region exist (e.g. short and long chronologies). See the vignette for a detailed explanation how the parameters `level` and `add` work.

Additional columns might be useful to e.g. specify the x and y position of the names of the chronological units to place them at an arbitrary spot.

**Value**

A tibble with chronological data ready-to-use for plotting with `plot_chronochrt`.

**Examples**

```r
# Create new data set
chrons <- add_chron(region = c("A", "B"),
    name = c("a", "a"),
    start = -100,
    end = c(200, 150),
    level = c(1, 1),
    add = FALSE,
    new_table = TRUE)

# Add chron to an existing data set
chrons2 <- add_chron(data = chrons,
    region = "A",
    name = c("1", "2"),
    start = c(-100, 100),
    end = c(100, 200),
    level = 2,
    add = FALSE,
```
new_table = FALSE)

# Include chron with unclear start/end data
chrons <- add_chron(data = chrons,
region = "B",
name = c("1", "2"),
start = c(-100, "0/50"),
end = c("0/50", 150),
level = 2,
add = FALSE,
new_table = FALSE)

# They can be linked using the pipe operator %>%:
library(magrittr)

chrons <- add_chron(region = c("A", "B"),
name = c("a", "a"),
start = -100,
end = c(200, 150),
level = c(1, 1),
add = FALSE,
new_table = TRUE) %>%
add_chron(region = "B",
name = c("1", "2"),
start = c(-100, "0/50"),
end = c("0/50", 150),
level = 2,
add = FALSE)

---

### add_label_image

*Provide image labels for a chronological chart*

#### Description

The function creates a tibble with the paths of the image labels to be plotted in a chronological chart or adds them to an already existing tibble.

#### Usage

```r
add_label_image(
  data,
  region,
  year,
  position = 0.75,
  image_path,
  new = FALSE,
  ...
)
```
add_label_image

Arguments

- **data**: An object to which labels should be added. Must not be provided if `new = FALSE`.
- **region**: A character string or character vector with the titles of the sections the label(s) should be placed in.
- **year**: A number or a numeric vector with the year(s) at which the label should be placed (i.e. its vertical position).
- **position**: A number or a numeric vector with the horizontal position(s) of the label. See Details for explanation.
- **image_path**: A character string or character vector with the file path(s) or URL(s) to the image files.
- **new**: Logical operator. If `TRUE`, a new data set will be created. If `FALSE`, the default, the input will be added to an existing data set.
- **...**: Further columns to include or additional arguments passed to `tibble` or `add_row`.

Details

If the input is in the same order as the arguments, the arguments do not need to be explicitly named. Values can be provided as a number or character string, if they are the same for all other data. If not, they must be provided as vectors with equal lengths.

Value

A tibble with image labels ready-to-use for plotting with `plot_chronochrt`.

Examples

```r
# Create new label data set
labels <- add_label_image(region = "A",
                           year = -50,
                           position = 0.5,
                           image_path = "https://www.r-project.org/logo/Rlogo.png",
                           new = TRUE)

# Add labels to existing data set
labels <- add_label_image(data = labels,
                           region = "B",
                           year = 50,
                           position = 0.9,
                           image_path = "https://www.r-project.org/logo/Rlogo.png",
                           new = FALSE)

# They can be linked using the pipe operator \code{\%\%}:
library(magrittr)

labels <- add_label_image(region = "A",
                           year = -50,
                           position = 0.5,
                           image_path = "https://www.r-project.org/logo/Rlogo.png",
                           new = TRUE) %>%
```

add_label_text

Description
The function creates a tibble with text labels to be plotted in a chronological chart or adds them to an already existing tibble.

Usage
add_label_text(data, region, year, position = 0.9, label, new = FALSE, ...)

Arguments
data
  An object to which labels should be added. Must not be provided if new = FALSE.
region
  A character string or character vector with the titles of the sections the label(s) should be placed in.
year
  A number or a numeric vector with the year(s) at which the label should be placed (i.e. its vertical position).
position
  A number or a numeric vector with the horizontal position(s) of the label. See Details for explanation.
label
  A character string or character vector with the text of the label(s).
new
  Logical operator. If TRUE, a new data set will be created. If FALSE, the default, the input will be added to an existing data set.
...
  Further columns to include, or additional arguments passed to tibble or add_row.

Details
If the input is in the same order as the arguments, the arguments do not need to be explicitly named. Values can be provided as one number or one character string, if they are the same for all other data. If not, they must be provided as vectors with equal lengths. It is assumed that most of the labels will be located on the right side of each column. The position of a label defines it right most end to prevent it from running outside the plotting area. Vertically, it will be placed centred on the year given. Text in labels can be wrapped by inserting \n (without blanks around it).

Value
A tibble with text labels ready-to-use in plot_chronochrt.
Examples

# Create new label data set
labels <- add_label_text(region = "A",
    year = -50,
    position = 0.5,
    label = "Flood",
    new = TRUE)

# Add labels to existing data set
labels <- add_label_text(data = labels,
    region = "B",
    year = 50,
    position = 0.9,
    label = "Earthquake",
    new = FALSE)

# They can be linked using the pipe operator \code{\%\%}:
library(magrittr)

labels <- add_label_text(region = "A",
    year = -50,
    position = 0.5,
    label = "Flood",
    new = TRUE) \%\%
    add_label_text(region = "B",
    year = 50,
    position = 0.9,
    label = "Earthquake")

arrange_regions

Arranging the regions (sections) of a chronological chart

Description

This function ensures that the regions/sections of a chronological chart are arranged in the desired order, not necessarily in an alphabetical one (the default plotting order).

Usage

arrange_regions(data, order)

Arguments

data A data set with chronological data and a column named "region".
order A character vector with desired order of the region/section titles. Each title must be given only once.

Value

A tibble with chronological data ready-to-use for plotting with plot_chronochrt.
Examples

```r
# Create example data set
chrons <- add_chron(region = c("A", "B"),
                     name = c("a", "a"),
                     start = -100,
                     end = c(200, 150),
                     level = c(1, 1),
                     add = FALSE,
                     new_table = TRUE)

# Arrange regions
chrons <- arrange_regions(data = chrons, order = c("B", "A"))
```

---

<table>
<thead>
<tr>
<th>chronochrt</th>
<th>ChronochRt</th>
</tr>
</thead>
</table>

Description

ChronochRt offers an easy way to draw chronological charts from tables. It aims to provide an intuitive environment for anyone new to R.

Features

- Slim structure of chronological datasets
- Import tabular data files and Excel files (requires the package `readxl`
- Possibility to display up to 2 chronological systems within the same region (e.g. long and short chronologies)
- Layout of the chronological chart optimised for easy readability and comprehensibility
- Years in BCE must be negative - that’s all you need to care about for dates
- Handling of insecure dates
- Handling of gaps, e.g. abandonment phases of sites
- Optional text labels
- Optional image labels to e.g. display key finds or show typological developments
- Geoms for the chronological chart and image labels
- Export of the chronological chart in different file formats (raster and vector graphics)
- Easy customisation of the chronological chart
- Based on the `tidyverse`: Seamless integration in pipes, enhanced customisation with `ggplot2`
Getting started

- Cheatsheet
- Vignettes

Description

Convert an existing data set in a ready-to-plot data set.

Usage

convert_to_chron(data, region, name, start, end, level, add)

Arguments

data: A data frame or tibble
region: The column name of the regions/sections in the plot.
name: The column name of the names of the chronological units. Must be a character string.
start: The column name of the start dates of the chronological units.
end: The column name of the end date of the chronological units.
level: The column name of the level of the chronological unit.
add: The column name of the columns which signals whether the chronological units within a geographical area should be drawn separately.

Details

Additional columns if the data set are directly passed to the output.

Value

A tibble with chronological data ready-to-use for plotting with plot_chronochrt.

Examples

# Create example data set
data <- data.frame(Location = c("A", "B"),
                   Dynasty = c("a", "a"),
                   Begin = c(-100, 50),
                   End = c(200, 150),
                   Subunit = 1,
                   Parallel = FALSE)

# Convert to chronological data set
chrons <- convert_to_chron(data = data,
    region = Location,
    name = Dynasty,
    start = Begin,
    end = End,
    level = Subunit,
    add = Parallel)

geom_chronochRt

A chronological chart

Description

Computes and draws a chronological chart.

Usage

geom_chronochRt(
    mapping = NULL,
    data = NULL,
    inherit.aes = TRUE,
    year_lim = NULL,
    minimal = FALSE,
    ...
)

Arguments

mapping Set of aesthetic mappings created by aes() or aes_(). If specified and inherit.aes = TRUE (the default), it is combined with the default mapping at the top level of the plot. You must supply mapping if there is no plot mapping.

data The data to be displayed in this layer. There are three options:
If NULL, the default, the data is inherited from the plot data as specified in the call to ggplot().
A data.frame, or other object, will override the plot data. All objects will be fortified to produce a data frame. See fortify() for which variables will be created.
A function will be called with a single argument, the plot data. The return value must be a data.frame, and will be used as the layer data. A function can be created from a formula (e.g. ~ head(.x,10)).

inherit.aes If FALSE, overrides the default aesthetics, rather than combining with them. This is most useful for helper functions that define both data and aesthetics and shouldn’t inherit behaviour from the default plot specification, e.g. borders().

year_lim A numeric vector of length 2 to define the lower and upper limit of the chronological chart.
minimal Should chrons be optically separated by vertical lines? If TRUE only vertical lines between around the chronological columns will be drawn.

... Other arguments passed on to layer. These are often aesthetics, used to set an aesthetic to a fixed value, like hjust = 0.1.

Details

This geom is special because no x and y coordinates are provided in the input. Therefore, the following aesthetics must be provided only in the aes function: region, level, start, end, add (i.e. all required aesthetics).

- region The title(s) of the section(s) the chronological chart is subdivided into
- name The name(s) of the chronological unit(s). To maintain compatibility with other geoms, the aesthetic label can be used instead.
- start, end The start and end date of a chronological unit, respectively.
- level The levels of the chronological units.
- add Logical value indicating whether chronological units within a region should be plotted in an additional column.

Usually, the names of the chronological units are placed in their middle. They can be arbitrarily placed by the aesthetics name_x, name_y:

- name_x The horizontal position within an chronological column, i.e. a value between 0 and 1 if add = FALSE and between 1 and 2 if add = TRUE.
- name_y The vertical position given as a year.

See vignette("ChronochRt") below for further details.

The geom aims to preserve access to as much of the underlying aesthetics as possible. To achieve this aim, ambiguous names were resolved (e.g. size to size_line and size_text).

Value

Layer of a ggplot2 object.

Aesthetics

gem_ChronochRt() understands the following aesthetics (required aesthetics are in bold):

- region
- level
- end
- start
- add
- alpha
- angle
- colour
geom_chronochRt

- family
- fill
- fontface
- group
- hjust
- lineheight
- name|label
- name_x
- name_y
- size_line
- size_text
- vjust

See Details for how aesthetics specific for this geom work and learn more about setting aesthetics in vignette("ggplot2-specs").

Examples

```r
# Create example data
library(ggplot2)

chrons <- data.frame(region = c("A", "B", "B", "B", "A"),
                      name = c("a", "a", "1", "2", "b"),
                      start = c(-100, -100, -100, "0/50", "50_100"),
                      end = c("50_100", 150, "0/50", 150, 200),
                      level = c(1, 1, 2, 2, 1),
                      add = FALSE)

ggplot(chrons) +
  geom_chronochRt(aes(name = name, region = region, level = level,
                      start = start, end = end, add = add))

q <- ggplot(chrons, aes(name = name, region = region, level = level,
                         start = start, end = end, add = add)) +
  facet_grid(cols = vars(region), scales = "free_x", space = "free_x")

# Adjust upper and lower end of a chronological chart with year_lim:
q <- ggplot(chrons, aes(name = name, region = region, level = level,
                         start = start, end = end, add = add)) +
  facet_grid(cols = vars(region), scales = "free_x", space = "free_x")
```
q + geom_chronochRt(year_lim = c(-50, 100))

# Change aesthetics of the plot:
q + geom_chronochRt(fill = "black", colour = "white")
q + geom_chronochRt(aes(fill = level, size_line = 3))

# Change position of the names:
q + geom_chronochRt(aes(name_x = 0.75))

# To remove vertical lines within a chronological column:
q + geom_chronochRt(minimal = TRUE)

---

**geom_chronochRtImage**  
*Add image labels to plot*

---

**Description**

Plot images in a ggplot2 object. Supported file types are: .png, .jpg, .tif, .bmp, .svg (see `image_read` for further details).

**Usage**

`geom_chronochRtImage(mapping = NULL, data = NULL, inherit.aes = TRUE, ...)`

**Arguments**

- `mapping`  
  Set of aesthetic mappings created by `aes()` or `aes()`. If specified and `inherit.aes` = TRUE (the default), it is combined with the default mapping at the top level of the plot. You must supply `mapping` if there is no plot mapping.

- `data`  
  The data to be displayed in this layer. There are three options:
  - If NULL, the default, the data is inherited from the plot data as specified in the call to `ggplot()`.
  - A data.frame, or other object, will override the plot data. All objects will be fortified to produce a data frame. See `fortify()` for which variables will be created.
  - A function will be called with a single argument, the plot data. The return value must be a data.frame, and will be used as the layer data. A function can be created from a formula (e.g. ~ head(.x, 10)).

- `inherit.aes`  
  If FALSE, overrides the default aesthetics, rather than combining with them. This is most useful for helper functions that define both data and aesthetics and shouldn’t inherit behaviour from the default plot specification, e.g. `borders()`.

- `...`  
  Other arguments passed on to `layer`. These are often aesthetics, used to set an aesthetic to a fixed value, like `height = 1`. 
Details
The images are provided by their paths (local files or URLs) via the aesthetic `image_path`. Rows with invalid file paths are silently dropped, invalid URLs will throw an error.

The absolute size in cm of the images can be specified via the aesthetics `height` and `width`. If only one is specified, the image is scaled under preservation of its aspect ratio. If both are given, the image might appear distorted. See examples for further details.

Value
Layer of a ggplot2 object.

Aesthetics
`geom_ChronochRtImage()` understands the following aesthetics (required aesthetics are in bold):

- `image_path`
- `x`
- `y`
- `group`
- `height`
- `width`

See Details for how these aesthetics work.

Author(s)
This geom is a modified version of the `geom_custom()` from Baptiste Auguié's egg package.

Examples

```r
library(ggplot2)

# Create example data
data <- data.frame(x = c(2, 4), y = c(2, 4),
                  image_path = "https://www.r-project.org/logo/Rlogo.png",
                  height = c(1,2), width = c(3,0.5))

q <- ggplot(data) + lims(x = c(0, 6), y = c(0, 6))

# Without size specifications
q + geom_chronochRtImage(aes(image_path = image_path, x = x, y = y))

# Scale images to individual heights/widths by specifying one of them:
q + geom_chronochRtImage(aes(image_path = image_path, x = x, y = y, height = height))

# Scale images to uniform height/width (i.e. independent of input data):
q + geom_chronochRtImage(aes(image_path = image_path, x = x, y = y, height = 1))
```
# Specifying height and width might result in distorted images:
q + geom_chronochRtImage(aes(image_path = image_path, x = x, y = y, height = height, width = width))

---

**import_chron**

**Import data for Chronological chart**

**Description**

The function imports and converts chronological information from tabular data saved as .csv, .xlsx and .xls, and any other kind of delimited file format into a ready-to-use data set for plotting with ChronochRt. It automatically selects the appropriate import function from the file extension and the argument delim. To import excel files, the package **readxl** must be installed.

**Usage**

`import_chron(path, region, name, start, end, level, add, delim, ...)`

**Arguments**

- **path** A character string with either the path or a URL to the file to be imported.
- **region, name, start, end, level, add** Character string (case sensitive) with the column names of:
  - the region/sections,
  - the names of the chronological units,
  - their start dates,
  - their end dates,
  - their level,
  - the information whether the chronological units within a region/section should be drawn separately or not.
- **delim** A character string with the separator for tabular data. Use `delim = "\t"` for tab-separated data. Must be provided for all file types except .xlsx or .xls.
- **...** Additional arguments passed to the respective import functions. See their documentation for details:
  - `read_excel` for file formats .xlsx and .xls,
  - `read_csv` for the file format .csv,
  - `read_delim` for all other file formats.

**Details**

Additional columns in the import file will be imported as they are. Among these might be e.g. columns specifying the `x` and `y` position of the names to place them at an arbitrary spot.

**Value**

A tibble containing the desired chronological information.
Examples

## Not run:

```r
# Import of Excel files
chrons <- import_chron(path = "ex_urnfield_periods.xlsx",
region = "Region",
name = "Name",
start = "Start",
end = "End",
level = "Level",
add = "Add")

# Import of delimited tabular data
chrons <- import_chron(path = "ex_urnfield_periods.csv",
region = "Region",
name = "Name",
start = "Start",
end = "End",
add = "Add",
delim = ",")

chrons <- import_chron(path = "ex_urnfield_periods.txt",
region = "Region",
name = "Name",
start = "Start",
end = "End",
add = "Add",
delim = "\t")

# Include additional parameters of the import function
chrons <- import_chron(path = "ex_urnfield_periods.xlsx",
region = "Region",
name = "Name",
start = "Start",
end = "End",
level = "Level",
add = "Add",
sheet = "data")
```

## End(Not run)

---

**plot_chronochrt**  
*Plot a chronological chart*

### Description

This function converts a chronological data set into a chronological chart. It provides basic features for the export of the plot and for its customisation.
plot_chronochrt

Usage

plot_chronochrt(
  data,
  labels_text = NULL,
  labels_image = NULL,
  year_lim = NULL,
  axis_title = "Years",
  minimal = FALSE,
  size_text = 6,
  height_image = 2,
  size_line = 0.5,
  fill_chron = "white",
  color_chron = "black",
  color_label = "black",
  line_break = 10,
  filename = NULL,
  plot_dim,
  background = NULL,
  ...)

Arguments

data A data set with chronological data.
labels_text A data set containing the text labels.
labels_image A data set containing the image labels.
year_lim A numeric vector of length 2 to define the lower and upper limit of the chronologi
cal chart.
axis_title A character string with the axis label of the vertical axis. Default is "Years".
minimal Should chrons be optically separated by vertical lines? If TRUE only vertical
lines between around the chronological columns will be drawn.
size_text Font size of the names of the chronological units in mm. All other text elements
will be scaled accordingly. The default is 6 mm.
height_image The absolute height of the image labels in cm. The default is 2 cm.
size_line Thickness of the line in mm. The default is 0.5 mm.
fill_chron Fill colour of the chronological units. The default is "white". See the colour
specification section of par for how to specify colours in R.
color_chron Line (border) colour of the chronological units. The default is "black". See the
colour specification section of par for how to specify colours in R.
color_label Colour of the text labels. The default is "black". See the colour specification
section of par for how to specify colours in R.
line_break Line length of the section labels in characters. Text will be wrapped at the blank
closest to the specified number of characters. Default is 10 characters.
filename
A character string with the filename or path. If specified, the plot will be saved in the
given location. The file format is automatically recognised from the file
extension. The most common file types are supported, e.g. .tiff, .png, .jpg,
.eps, and .pdf. To export as .svg installation of the package svglite is required.
See ggsave for more details about the supported file formats.

plot_dim
Dimensions of the plot as a vector in the format c(width, height, units). Sup-
ported units are "cm", "mm", "in". For example, plot_dim = c(5, 5, "cm") will
produce a plot of the dimensions 5 x 5 cm. If unspecified, the standard values of
the respective graphic device are used.

background
Optional specifications for the background of the chronological chart as vector in
the format c(background colour, linetype of grid lines) to overwrite the
default behaviour of theme_chronochrt. Any valid colour and line type speci-
fications are accepted, e.g. c("grey90", "dotted") (these are the default values
of theme_chronochrt). See the sections "colour specification" and "line type
specification" in par for how to specify colours and line types in R.

... Additional arguments passed to ggsave to enhance the saved plot like dpi to
specify its resolution. See ggsave for detailed information.

Details
This function is wrapper around various functions for an quick and convenient way to draw chrono-
logical charts. It relies on the common data structure of ChronochRt (see vignette("ChronochRt")
for details). For full customisation use the respective geoms to build your own plot.

It is assumed that the majority of the text labels will be placed on the right side of each column.
Therefore they are right aligned to prevent them from running outside the plotting area. Vertically, it
will be placed centred on the year given. Text in labels can be wrapped by inserting "\n" (without
blanks).

Value
A ggplot2 object with the chronological chart.

Examples

# Create Example data
chrons <- data.frame(region = c("A", "B", "B", "B", "A"),
                      name = c("a", "a", "1", "2", "b"),
                      start = c(-100, -100, -100, "0/50", "50_100"),
                      end = c("50_100", 150, "0/50", 150, 200),
                      level = c(1, 1, 2, 2, 1),
                      add = FALSE)

# Plot with default options
plot_chronochrt(chrons)

# Add labels
labels <- data.frame(region = "A",
                      year = -50,
The ChronochRt ggplot theme

Description

This is a theme to provide a ready-to-use layout of chronological charts. See `theme` for how to modify selected elements of it.

Usage

```r
theme_chronochrt(
  base_size = 11,
  base_family = "",
  base_line_size = base_size/22,
  base_rect_size = base_size/22
)
```

Arguments

- `base_size` base font size, given in pts.
- `base_family` base font family.
theme_chronochrt

base_line_size  base size for line elements
base_rect_size  base size for rect elements

Value
A ggplot-theme
Index

add_chron, 2
add_label_image, 4
add_label_text, 6
add_row, 3, 5, 6
aes, 11
aes(), 10, 13
aes_(), 10, 13
arrange_regions, 7
borders(), 10, 13
chronochrt, 8
convert_to_chron, 9
fortify(), 10, 13
geom_chronochRt, 10
geom_chronochRtImage, 13
ggplot(), 10, 13
ggsave, 18
image_read, 13
import_chron, 15
layer, 11, 13
par, 17, 18
plot_chronochrt, 3, 5–7, 9, 16
read_csv, 15
read_delim, 15
read_excel, 15
theme, 19
theme_chronochrt, 18, 19
tibble, 3, 5, 6