# Package 'mapview'

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Title Interactive Viewing of Spatial Data in R

**Version** 2.11.2

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**Description** Quickly and conveniently create interactive visualisations of spatial data with or without background maps. Attributes of displayed features are fully queryable via pop-up windows. Additional functionality includes methods to visualise trueand false-color raster images and bounding boxes.

**License** GPL (>= 3) | file LICENSE

URL https://github.com/r-spatial/mapview

BugReports https://github.com/r-spatial/mapview/issues

**Depends** methods, R (>= 3.6.0)

**Imports** base64enc, htmltools, htmlwidgets, lattice, leafem, leaflet (>= 2.0.0), leafpop, png, raster (>= 3.6.3), satellite, scales (>= 0.2.5), servr, sf, sp

**Suggests** covr, knitr, later, leaflet.extras2, leafsync, lwgeom, mapdeck, plainview, poorman, rmarkdown, rstudioapi, s2, stars, tinytest, webshot, webshot2

ByteCompile yes

**Encoding UTF-8** 

LazyData TRUE

RoxygenNote 7.2.3

SystemRequirements GNU make

NeedsCompilation no

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mapview-package Interactiv

Interactive viewing of spatial objects in R

## Description

Interactive viewing of spatial objects in R

breweries 3

#### **Details**

The package provides functionality to view spatial objects interactively. The intention is to provide interactivity for easy and quick visualization during spatial data analysis. It is not intended for fine-tuned presentation quality map production.

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breweries

Selected breweries in Franconia

## Description

Selected breweries in Franconia

#### **Format**

sf feature collection POINT

#### **Details**

This dataset contains selected breweries in Franconia. It is partly a subset of a larger database that was compiled by students at the University of Marburg for a seminar called "The Geography of Beer: sustainability in the food industry" and partly consists of breweries downloaded from <a href="https://www.bierwandern.de/inhalt/brauereiliste.html">https://www.bierwandern.de/inhalt/brauereiliste.html</a> with the kind permission of Rainer Kastl. Note that use of these data is restricted to non-commercial use and that they are explixitly excluded from the GPL lincense that mapview is licensed under.

franconia

Administrative district borders of Franconia

#### **Description**

Administrative district borders of Franconia

#### **Format**

sf feature collection MULTIPOLYGON

4 mapshot

#### **Details**

```
The NUTS_2013_01M_SH.zip archive was downloaded on 23/03/2017 from https://ec.europa.eu/eurostat/web/gisco/geodata/reference-data/administrative-units-statistical-units/nuts. https://gist.github.com/tim-salabim/2845fa90813fa25c18cf83f9b88cbde0
```

#### **Source**

 $\verb|https://ec.europa.eu/eurostat/web/gisco/geodata/reference-data/administrative-units-statistical-units-data/administrative-units-statistical-units-data/administrative-unit$ 

knit\_print.mapview

Print functions for mapview objects used in knitr

#### **Description**

Print functions for mapview objects used in knitr

#### Usage

```
knit_print.mapview(x, ...)
```

## **Arguments**

x A mapview object

... further arguments passed on to knit\_print

mapshot

Save mapview or leaflet map as HTML and/or image using webshot

## **Description**

Save a mapview or leaflet map as .html index file or .png, .pdf, or .jpeg image.

#### Usage

```
mapshot(
    x,
    url = NULL,
    file = NULL,
    remove_controls = c("zoomControl", "layersControl", "homeButton", "scaleBar",
        "drawToolbar", "easyButton"),
    ...
)
mapshot2(
```

mapshot 5

```
x,
url = NULL,
file = NULL,
remove_controls = c("zoomControl", "layersControl", "homeButton", "scaleBar",
    "drawToolbar", "easyButton", "control"),
...
)
```

#### **Arguments**

x mapview or leaflet object (or any other hmtlwidget).

Output .html file. If not supplied and 'file' is specified, a temporary index file

will be created.

file Output .png, .pdf, or .jpeg file.

remove\_controls

character vector of control buttons to be removed from the map when saving to file. Any combination of "zoomControl", "layersControl", "homeButton", "scaleBar", "drawToolbar", "easyButton". If set to NULL nothing will be removed. Ignord if x is not a mapview or leaflet map.

Further arguments passed on to saveWidget and/or webshot.

#### **Details**

mapshot uses webshot from the webshot package. mapshot2 uses webshot from the webshot2 package.

mapshot can be used to save both leaflet and mapview maps as html or png files or both. In theory, it should also work for any and all other htmlwidgets but has not been tested extensively for other htmlwidgets.

In case you want to save larger maps mapshot is likely to fail. You can try setting selfcontained = FALSE to avoid errors and create a valid local html file.

mapshot2 uses saveWidget and webshot to save maps as .html and/or .png|.jpg files, respectively. webshot assumes a findable installation of some Chrome browser variant on your system. If you see the the following error:

'google-chrome' and 'chromium-browser' were not found. Try setting the CHROMOTE\_CHROME environment variable or adding one of these executables to your PATH.

it means that find\_chrome cannot find a Chrome based browser in your system. Please see https://github.com/rstudio/chromote#specifying-which-browser-to-use for more details.

#### **Functions**

- mapshot(): Save mapview or leaflet map as HTML and/or image using webshot
- mapshot2(): Save mapview or leaflet map as HTML and/or image using webshot2

## See Also

```
webshot, saveWidget.
webshot.
```

6 mapshot

#### **Examples**

```
## Not run:
 library(utils)
 m = mapview(breweries)
 html_fl = tempfile(fileext = ".html")
 png_fl = tempfile(fileext = ".png")
 ## create standalone .html
 mapshot(m, url = html_fl)
 browseURL(html_f1)
 ## create standalone .png; temporary .html is removed automatically unless
 ## 'remove_url = FALSE' is specified
 mapshot(m, file = png_fl)
 browseURL(png_fl)
 mapshot(m, file = png_fl,
          remove_controls = c("homeButton", "layersControl"))
 browseURL(png_fl)
 ## create .html and .png
 mapshot(m, url = html_fl, file = png_fl)
 browseURL(png_fl)
 browseURL(html_f1)
## End(Not run)
## Not run:
 library(utils)
 m = mapview(breweries)
 html_fl = tempfile(fileext = ".html")
 png_fl = tempfile(fileext = ".png")
 ## create standalone .html
 mapshot2(m, url = html_fl)
 browseURL(html_f1)
 ## create standalone .png; temporary .html is removed automatically unless
 ## 'remove_url = FALSE' is specified
 mapshot2(m, file = png_fl)
 browseURL(png_fl)
 mapshot2(m, file = png_fl,
           remove_controls = c("homeButton", "layersControl"))
 browseURL(png_fl)
 ## create .html and .png
 mapshot2(m, url = html_fl, file = png_fl)
 browseURL(png_fl)
 browseURL(html_f1)
## End(Not run)
```

mapView

View spatial objects interactively

#### **Description**

this function produces an interactive view of the specified spatial object(s) on top of the specified base maps.

## Usage

```
## S4 method for signature 'RasterLayer'
mapView(
  х,
 map = NULL,
 maxpixels = mapviewGetOption("mapview.maxpixels"),
 col.regions = mapviewGetOption("raster.palette"),
  at = NULL,
  na.color = mapviewGetOption("na.color"),
  use.layer.names = mapviewGetOption("use.layer.names"),
 map.types = mapviewGetOption("basemaps"),
  alpha.regions = 0.8,
  legend = mapviewGetOption("legend"),
  legend.opacity = 1,
  trim = mapviewGetOption("trim"),
  verbose = mapviewGetOption("verbose"),
  layer.name = NULL,
  homebutton = mapviewGetOption("homebutton"),
  native.crs = mapviewGetOption("native.crs"),
 method = mapviewGetOption("method"),
  label = TRUE,
  query.type = mapviewGetOption("query.type"),
  query.digits = mapviewGetOption("query.digits"),
  query.position = mapviewGetOption("query.position"),
  query.prefix = mapviewGetOption("query.prefix"),
  viewer.suppress = mapviewGetOption("viewer.suppress"),
  hide = FALSE,
)
## S4 method for signature 'stars'
mapView(
 Х,
 band = 1,
 map = NULL,
 maxpixels = mapviewGetOption("mapview.maxpixels"),
```

```
col.regions = mapviewGetOption("raster.palette"),
  at = NULL,
  na.color = mapviewGetOption("na.color"),
  use.layer.names = mapviewGetOption("use.layer.names"),
  map.types = mapviewGetOption("basemaps"),
  alpha.regions = 0.8,
  legend = mapviewGetOption("legend"),
  legend.opacity = 1,
  trim = mapviewGetOption("trim"),
  verbose = mapviewGetOption("verbose"),
  layer.name = NULL,
  homebutton = mapviewGetOption("homebutton"),
  native.crs = mapviewGetOption("native.crs"),
 method = mapviewGetOption("method"),
  label = TRUE,
  query.type = mapviewGetOption("query.type"),
  query.digits = mapviewGetOption("query.digits"),
  query.position = mapviewGetOption("query.position"),
  query.prefix = mapviewGetOption("query.prefix"),
  viewer.suppress = mapviewGetOption("viewer.suppress"),
  pane = "auto",
 hide = FALSE,
)
## S4 method for signature 'stars_proxy'
mapView(
 х,
 band = 1,
 map = NULL,
 maxpixels = mapviewGetOption("mapview.maxpixels"),
  col.regions = mapviewGetOption("raster.palette"),
  at = NULL,
  na.color = mapviewGetOption("na.color"),
  use.layer.names = mapviewGetOption("use.layer.names"),
  map.types = mapviewGetOption("basemaps"),
  alpha.regions = 0.8,
  legend = mapviewGetOption("legend"),
  legend.opacity = 1,
  trim = mapviewGetOption("trim"),
  verbose = mapviewGetOption("verbose"),
  layer.name = NULL,
  homebutton = mapviewGetOption("homebutton"),
  native.crs = mapviewGetOption("native.crs"),
 method = mapviewGetOption("method"),
  label = TRUE,
  query.type = mapviewGetOption("query.type"),
  query.digits = mapviewGetOption("query.digits"),
```

```
query.position = mapviewGetOption("query.position"),
  query.prefix = mapviewGetOption("query.prefix"),
  viewer.suppress = mapviewGetOption("viewer.suppress"),
  pane = "auto",
  hide = FALSE,
)
## S4 method for signature 'SpatRaster'
mapView(
  Х,
  band = 1,
  map = NULL,
  maxpixels = mapviewGetOption("mapview.maxpixels"),
  col.regions = mapviewGetOption("raster.palette"),
  at = NULL,
  na.color = mapviewGetOption("na.color"),
  use.layer.names = mapviewGetOption("use.layer.names"),
  map.types = mapviewGetOption("basemaps"),
  alpha.regions = 0.8,
  legend = mapviewGetOption("legend"),
  legend.opacity = 1,
  trim = mapviewGetOption("trim"),
  verbose = mapviewGetOption("verbose"),
  layer.name = NULL,
  homebutton = mapviewGetOption("homebutton"),
  native.crs = mapviewGetOption("native.crs"),
  method = mapviewGetOption("method"),
  label = TRUE,
  query.type = mapviewGetOption("query.type"),
  query.digits = mapviewGetOption("query.digits"),
  query.position = mapviewGetOption("query.position"),
  query.prefix = mapviewGetOption("query.prefix"),
  viewer.suppress = mapviewGetOption("viewer.suppress"),
  pane = "auto",
  hide = FALSE,
)
## S4 method for signature 'RasterStackBrick'
mapView(
  Х,
 map = NULL,
 maxpixels = mapviewGetOption("mapview.maxpixels"),
  col.regions = mapviewGetOption("raster.palette"),
  at = NULL,
  na.color = mapviewGetOption("na.color"),
  use.layer.names = TRUE,
```

```
map.types = mapviewGetOption("basemaps"),
  legend = mapviewGetOption("legend"),
  legend.opacity = 1,
  trim = TRUE,
  verbose = mapviewGetOption("verbose"),
  homebutton = mapviewGetOption("homebutton"),
 method = mapviewGetOption("method"),
  label = TRUE,
  query.type = c("mousemove", "click"),
  query.digits = mapviewGetOption("query.digits"),
  query.position = mapviewGetOption("query.position"),
  query.prefix = "Layer",
  viewer.suppress = mapviewGetOption("viewer.suppress"),
 hide = FALSE,
)
## S4 method for signature 'Satellite'
mapView(
  х,
 map = NULL,
 maxpixels = mapviewGetOption("mapview.maxpixels"),
 col.regions = mapviewGetOption("raster.palette"),
  at = NULL,
 na.color = mapviewGetOption("na.color"),
 map.types = mapviewGetOption("basemaps"),
 legend = mapviewGetOption("legend"),
  legend.opacity = 1,
  trim = TRUE,
  verbose = mapviewGetOption("verbose"),
  homebutton = mapviewGetOption("homebutton"),
 method = c("bilinear", "ngb"),
  label = TRUE,
  hide = FALSE,
)
## S4 method for signature 'sf'
mapView(
 х,
 map = NULL,
 pane = "auto",
  canvas = useCanvas(x),
 viewer.suppress = mapviewGetOption("viewer.suppress"),
  zcol = NULL,
 burst = FALSE,
  color = mapviewGetOption("vector.palette"),
  col.regions = mapviewGetOption("vector.palette"),
```

```
at = NULL,
  na.color = mapviewGetOption("na.color"),
  cex = 6.
  lwd = lineWidth(x),
  alpha = 0.9,
  alpha.regions = regionOpacity(x),
  na.alpha = regionOpacity(x),
 map.types = mapviewGetOption("basemaps"),
  verbose = mapviewGetOption("verbose"),
  popup = TRUE,
  layer.name = NULL,
  label = zcol,
  legend = mapviewGetOption("legend"),
  legend.opacity = 1,
  homebutton = mapviewGetOption("homebutton"),
  native.crs = FALSE,
 highlight = mapviewHighlightOptions(x, alpha.regions, alpha, lwd),
 maxpoints = getMaxFeatures(x),
 hide = FALSE,
)
## S4 method for signature 'SpatVector'
mapView(
 х,
 map = NULL,
 pane = "auto",
  canvas = useCanvas(x),
  viewer.suppress = mapviewGetOption("viewer.suppress"),
  zcol = NULL,
 burst = FALSE,
  color = mapviewGetOption("vector.palette"),
  col.regions = mapviewGetOption("vector.palette"),
  at = NULL,
  na.color = mapviewGetOption("na.color"),
  cex = 6,
  lwd = lineWidth(x),
  alpha = 0.9,
  alpha.regions = regionOpacity(x),
  na.alpha = regionOpacity(x),
 map.types = mapviewGetOption("basemaps"),
  verbose = mapviewGetOption("verbose"),
  popup = TRUE,
  layer.name = NULL,
  label = zcol,
  legend = mapviewGetOption("legend"),
  legend.opacity = 1,
  homebutton = mapviewGetOption("homebutton"),
```

```
native.crs = FALSE,
 highlight = mapviewHighlightOptions(x, alpha.regions, alpha, lwd),
 maxpoints = getMaxFeatures(x),
 hide = FALSE,
)
## S4 method for signature 'sfc'
mapView(
 х,
 map = NULL,
 pane = "auto",
  canvas = useCanvas(x),
  viewer.suppress = mapviewGetOption("viewer.suppress"),
  color = standardColor(x),
  col.regions = standardColRegions(x),
  at = NULL,
  na.color = mapviewGetOption("na.color"),
  cex = 6,
  lwd = lineWidth(x),
  alpha = 0.9,
  alpha.regions = regionOpacity(x),
 map.types = mapviewGetOption("basemaps"),
  verbose = mapviewGetOption("verbose"),
  popup = NULL,
  layer.name = deparse(substitute(x, env = parent.frame())),
  label = makeLabels(x),
  legend = mapviewGetOption("legend"),
  legend.opacity = 1,
  homebutton = mapviewGetOption("homebutton"),
  native.crs = FALSE,
 highlight = mapviewHighlightOptions(x, alpha.regions, alpha, lwd),
 maxpoints = getMaxFeatures(x),
 hide = FALSE,
  . . .
)
## S4 method for signature 'character'
mapView(
 Х,
 map = NULL,
  tms = TRUE,
  color = standardColor(),
  col.regions = standardColRegions(),
  at = NULL,
  na.color = mapviewGetOption("na.color"),
  cex = 6,
  1wd = 2,
```

```
alpha = 0.9,
  alpha.regions = 0.6,
  na.alpha = 0.6,
 map.types = mapviewGetOption("basemaps"),
  verbose = FALSE,
  layer.name = x,
  homebutton = mapviewGetOption("homebutton"),
  native.crs = FALSE,
  canvas = FALSE,
  viewer.suppress = mapviewGetOption("viewer.suppress"),
)
## S4 method for signature 'numeric'
mapView(x, y, type = "p", grid = TRUE, label, ...)
## S4 method for signature 'data.frame'
mapView(
 х,
  xcol,
  ycol,
  grid = TRUE,
  aspect = 1,
  popup = leafpop::popupTable(x, className = "mapview-popup"),
  label,
  crs = NA,
)
## S4 method for signature 'XY'
mapView(
  Х,
  map = NULL,
  pane = "auto",
  canvas = useCanvas(x),
  viewer.suppress = mapviewGetOption("viewer.suppress"),
  color = standardColor(x),
  col.regions = standardColRegions(x),
  at = NULL,
  na.color = mapviewGetOption("na.color"),
  cex = 6,
  lwd = lineWidth(x),
  alpha = 0.9,
  alpha.regions = regionOpacity(x),
 map.types = mapviewGetOption("basemaps"),
  verbose = mapviewGetOption("verbose"),
  popup = NULL,
  layer.name = deparse(substitute(x, env = parent.frame(1))),
```

```
label = makeLabels(x),
  legend = mapviewGetOption("legend"),
  legend.opacity = 1,
  homebutton = mapviewGetOption("homebutton"),
  native.crs = FALSE,
 highlight = mapviewHighlightOptions(x, alpha.regions, alpha, lwd),
 maxpoints = getMaxFeatures(x),
 hide = FALSE,
)
## S4 method for signature 'XYZ'
mapView(x, layer.name = deparse(substitute(x, env = parent.frame(1))), ...)
## S4 method for signature 'XYM'
mapView(x, layer.name = deparse(substitute(x, env = parent.frame(1))), ...)
## S4 method for signature 'XYZM'
mapView(x, layer.name = deparse(substitute(x, env = parent.frame(1))), ...)
## S4 method for signature 'bbox'
mapView(
 х,
  layer.name = deparse(substitute(x, env = parent.frame(1))),
  alpha.regions = 0.2,
)
## S4 method for signature 'missing'
mapView(map.types = mapviewGetOption("basemaps"), ...)
## S4 method for signature '`NULL`'
mapView(x, ...)
## S4 method for signature 'list'
mapView(
 Χ,
 map = NULL,
 zcol = NULL,
 burst = FALSE,
 color = mapviewGetOption("vector.palette"),
  col.regions = mapviewGetOption("vector.palette"),
  at = NULL,
 na.color = mapviewGetOption("na.color"),
  cex = 6,
  lwd = lapply(x, lineWidth),
  alpha = 0.9,
  alpha.regions = lapply(x, regionOpacity),
```

```
na.alpha = lapply(x, regionOpacity),
  map.types = mapviewGetOption("basemaps"),
  verbose = mapviewGetOption("verbose"),
  popup = TRUE,
  layer.name = deparse(substitute(x, env = parent.frame())),
  label = lapply(x, makeLabels),
  legend = mapviewGetOption("legend"),
  homebutton = mapviewGetOption("homebutton"),
  native.crs = FALSE,
 hide = FALSE,
)
## S4 method for signature 'ANY'
mapview(...)
## S4 method for signature 'SpatialPixelsDataFrame'
mapView(
  Х,
  map = NULL,
  zcol = NULL
  maxpixels = mapviewGetOption("mapview.maxpixels"),
  col.regions = mapviewGetOption("raster.palette"),
  at = NULL,
  na.color = mapviewGetOption("na.color"),
  use.layer.names = FALSE,
  map.types = mapviewGetOption("basemaps"),
  alpha.regions = 0.8,
  legend = mapviewGetOption("legend"),
  legend.opacity = 1,
  trim = TRUE,
  verbose = mapviewGetOption("verbose"),
  layer.name = NULL,
  homebutton = mapviewGetOption("homebutton"),
  native.crs = FALSE,
  method = mapviewGetOption("method"),
  label = TRUE,
  query.type = c("mousemove", "click"),
  query.digits,
  query.position = "topright",
  query.prefix = "Layer",
  viewer.suppress = mapviewGetOption("viewer.suppress"),
  hide = FALSE,
)
## S4 method for signature 'SpatialGridDataFrame'
mapView(
```

```
Х,
 map = NULL,
  zcol = NULL.
 maxpixels = mapviewGetOption("mapview.maxpixels"),
  col.regions = mapviewGetOption("raster.palette"),
  at = NULL,
  na.color = mapviewGetOption("na.color"),
  use.layer.names = FALSE,
 map.types = mapviewGetOption("basemaps"),
  alpha.regions = 0.8,
  legend = mapviewGetOption("legend"),
  legend.opacity = 1,
  trim = TRUE,
  verbose = mapviewGetOption("verbose"),
  layer.name = NULL,
  homebutton = mapviewGetOption("homebutton"),
  native.crs = FALSE,
 method = mapviewGetOption("method"),
  label = TRUE,
  query.type = c("mousemove", "click"),
  query.digits,
  query.position = "topright",
  query.prefix = "Layer",
  viewer.suppress = mapviewGetOption("viewer.suppress"),
 hide = FALSE,
)
## S4 method for signature 'SpatialPointsDataFrame'
mapView(x, zcol = NULL, layer.name = NULL, ...)
## S4 method for signature 'SpatialPoints'
mapView(x, zcol = NULL, layer.name = NULL, ...)
## S4 method for signature 'SpatialPolygonsDataFrame'
mapView(x, zcol = NULL, layer.name = NULL, ...)
## S4 method for signature 'SpatialPolygons'
mapView(x, zcol = NULL, layer.name = NULL, ...)
## S4 method for signature 'SpatialLinesDataFrame'
mapView(x, zcol = NULL, layer.name = NULL, ...)
## S4 method for signature 'SpatialLines'
mapView(x, zcol = NULL, layer.name = NULL, ...)
```

#### **Arguments**

x a Raster\* or Spatial\* or Satellite or sf or stars object or a list of any

combination of those. Furthermore, this can also be a data.frame, a numeric vector or a character string pointing to a tile image folder or file on disk. If missing, a blank map will be drawn. A value of NULL will return NULL.

map an optional existing map to be updated/added to.

maxpixels integer > 0. Maximum number of cells to use for the plot. If maxpixels <

ncell(x), sampleRegular is used before plotting.

col.regions color (palette) pixels. See levelplot for details.

at the breakpoints used for the visualisation. See levelplot for details.

na.color color for missing values

use.layer.names

should layer names of the Raster\* object be used?

map.types character spcifications for the base maps. see https://leaflet-extras.github.

io/leaflet-providers/preview/ for available options.

alpha.regions opacity of the fills of points, polygons or raster layer(s)

legend should a legend be plotted legend.opacity opacity of the legend

trim should the raster be trimmed in case there are NAs on the edges

verbose should some details be printed during the process

layer.name the name of the layer to be shown on the map. By default this is the character

version of whatever is passed to x. NOTE: This is being passed to underlying leaflet functions as the group argument. So if you use mapview to set up a map and want to refer to a certain layer later on, this is what you should refer to in

group.

homebutton logical, whether to add a zoom-to-layer button to the map. Defaults to TRUE

native.crs logical whether to reproject to web map coordinate reference system (web mer-

cator - epsg:3857) or render using native CRS of the supplied data (can also be NA). Default is FALSE which will render in web mercator. If set to TRUE now background maps will be drawn (but rendering may be much quicker as no

reprojecting is necessary). Currently only works for simple features.

method for raster data only (raster/stars). Method used to compute values for the re-

sampled layer that is passed on to leaflet. mapview does projection on-the-fly to ensure correct display and therefore needs to know how to do this projection. The default is 'bilinear' (bilinear interpolation), which is appropriate for continuous variables. The other option, 'ngb' (nearest neighbor), is useful for categorical variables. Ignored if the raster layer is of class factor in which case

"ngb" is used.

label For vector data (sf/sp) a character vector of labels to be shown on mouseover.

See addControl for details. For raster data (Raster\*/stars) a logical indicating

whether to add image query.

query.type for raster methods only. Whether to show raster value query on 'mousemove' or

'click'. Ignored if label = FALSE.

query.digits for raster methods only. The amount of digits to be shown by raster value query.

Ignored if label = FALSE.

query.position for raster methods only. The position of the raster value query info box. See

position argument of addLegend for possible values. Ignored if label = FALSE.

query.prefix for raster methods only. a character string to be shown as prefix for the layerId.

Ignored if label = FALSE.

viewer.suppress

deprecated. Use mapviewOptions(viewer.suppress = TRUE/FALSE) instead.

hide if TRUE the layer will be hidden (i.e. unchecked) in the rendered map.

... additional arguments passed on to respective functions. See addRasterImage,

addCircles, addPolygons, addPolylines for details. Furthermore, you can pass hidden arguments to some methods. See Details for a list of supported

hidden arguments.

for stars layers, the band number to be plotted.

pane name of the map pane in which to render features. See addMapPane for de-

tails. Currently only supported for vector layers. Ignored if canvas = TRUE. The default "auto" will create different panes for points, lines and polygons such that points overlay lines overlay polygons. Set to NULL to get default leaflet behaviour where allfeatures are rendered in the same pane and layer order is

determined automatically/sequentially.

canvas whether to use canvas rendering rather than svg. May help performance with

larger data. See <a href="https://leafletjs.com/index.html#canvas">https://leafletjs.com/index.html#canvas</a> for more information. Only applicable for vector data. The default setting will decide auto-

matically, based on feature complexity.

zcol attribute name(s) or column number(s) in attribute table of the column(s) to be

rendered. See also Details.

burst whether to show all (TRUE) or only one (FALSE) layer(s). See also Details.

color color (palette) for points/polygons/lines

cex attribute name(s) or column number(s) in attribute table of the column(s) to be

used for defining the size of circles

lwd line width alpha opacity of lines

na.alpha opacity of missing values

popup either logical, character vector or a list of HTML strings with the popup

contents, usually created from popupTable. See addControl for details. If FALSE or NULL no popups will be created, if TRUE a table with all feature attributes/columns will be created. If a character vector of column names, the

table will only show the respective column entries.

highlight either FALSE, NULL or a list of styling options for feature highlighting on mouse

hover. See highlightOptions for details.

maxpoints the maximum number of points making up the geometry. In case of lines and

polygons this refers to the number of vertices. See Details for more information.

tms whether the tiles are served as TMS tiles.

У	numeric vector.
type	whether to render the numeric vector x as a point "p" or line "1" plot.
grid	whether to plot a (scatter plot) xy-grid to aid interpretation of the visualisation. Only relevant for the data.frame method.
xcol	the column to be mapped to the x-axis. Only relevant for the data.frame method.
ycol	the column to be mapped to the y-axis. Only relevant for the data.frame method.
aspect	the ratio of x/y axis corrdinates to adjust the plotting space to fit the screen. Only relevant for the data.frame method.
crs	an optional crs specification for the provided data to enable rendering on a basemap. See argument description in st. sf for details.

#### **Details**

If zcol is not NULL but a length one character vector (referring to a column name of the attribute table) and burst is TRUE, one layer for each unique value of zcol will be drawn. The same will happen if burst is a length one character vector (again referring to a column of the attribute table).

NOTE: if XYZ or XYM or XYZM data from package sf is passed to mapview, dimensions Z and M will be stripped to ensure smooth rendering even though the popup will potentially still say something like "POLYGON Z".

maxpoints is taken to determine when to switch rendering from svg to canvas overlay for perfomance. The threshold calculation is done as follows:

if the number of points (in case of point data) or vertices (in case of polygon or line data) > maxpoints then render using special render function. Within this render function we approximate the complexity of features by

```
maxFeatures <- maxfeatures / (npts(data) / length(data))</pre>
```

where npts determines the number of points/vertices and length the number of features (points, lines or polygons). When the number of features in the current view window is larger than maxFeatures then features are rendered on the canvas, otherwise they are rendered as svg objects and fully queriable.

Hidden arguments that can be set via . . .:

\* hide: hide all but the first layer when rendering a RasterStackBrick.

## Methods (by class)

```
• mapView(stars): stars
```

- mapView(stars\_proxy): stars\_proxy
- mapView(SpatRaster): SpatRaster
- mapView(RasterStackBrick): stack/brick
- mapView(Satellite): satellite
- mapView(sf): sf

```
• mapView(SpatVector): SpatVector
• mapView(sfc): st_sfc
• mapView(character): character
• mapView(numeric): numeric
• mapView(data.frame): data.frame
• mapView(XY): st_sfc
• mapView(XYZ): st_sfc
• mapView(XYM): st_sfc
• mapView(XYZM): st_sfc
• mapView(bbox): st_bbox
• mapView(missing): initiate a map without an object
• mapView(`NULL`): initiate a map without an object
• mapView(list): list
• mapview(ANY): alias for ease of typing
• mapView(SpatialPixelsDataFrame): SpatialPixelsDataFrame
• mapView(SpatialGridDataFrame): SpatialGridDataFrame
• mapView(SpatialPointsDataFrame): SpatialPointsDataFrame
• mapView(SpatialPoints): SpatialPoints
• mapView(SpatialPolygonsDataFrame): SpatialPolygonsDataFrame
• mapView(SpatialPolygons): SpatialPolygons
• mapView(SpatialLinesDataFrame): SpatialLinesDataFrame
• mapView(SpatialLines): SpatialLines
```

#### Author(s)

Tim Appelhans

## **Examples**

```
hole1 = matrix(c(1,1,1,2,2,2,2,1,1,1),ncol=2, byrow=TRUE)
hole2 = matrix(c(5,5,5,6,6,6,6,5,5,5),ncol=2, byrow=TRUE)
pts = list(outer, hole1, hole2)
(pl1 = st_polygon(pts))
mapview(pl1)
if (interactive()) {
 library(plainview)
 mapview(plainview::poppendorf[[5]])
}
mapview(leaflet::gadmCHE)
mapview(leaflet::atlStorms2005)
## styling options & legends ================================
mapview(franconia, color = "white", col.regions = "red")
mapview(franconia, color = "magenta", col.regions = "white")
mapview(breweries, zcol = "founded")
mapview(breweries, zcol = "founded", at = seq(1400, 2200, 200), legend = TRUE)
mapview(franconia, zcol = "district", legend = TRUE)
clrs <- sf.colors</pre>
mapview(franconia, zcol = "district", col.regions = clrs, legend = TRUE)
mapview(franconia) + breweries
mapview(list(breweries, franconia))
mapview(franconia) + mapview(breweries) + trails
mapview(franconia, zcol = "district") + mapview(breweries, zcol = "village")
mapview(list(franconia, breweries),
      zcol = list("district", NULL),
      legend = list(TRUE, FALSE))
mapview(franconia, burst = TRUE)
mapview(franconia, burst = TRUE, hide = TRUE)
mapview(franconia, zcol = "district", burst = TRUE)
library(poorman)
library(sf)
franconia %>%
 sf::st_union() %>%
 mapview()
```

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```
franconia %>%
   group_by(district) %>%
   summarize() %>%
   mapview(zcol = "district")
 franconia %>%
   group_by(district) %>%
   summarize() %>%
   mutate(area = st_area(.) / 1e6) %>%
   mapview(zcol = "area")
 franconia %>%
   mutate(area = sf::st_area(.)) %>%
   mapview(zcol = "area", legend = TRUE)
 breweries %>%
   st_intersection(franconia) %>%
   mapview(zcol = "district")
 franconia %>%
   mutate(count = lengths(st_contains(., breweries))) %>%
   mapview(zcol = "count")
 franconia %>%
   mutate(count = lengths(st_contains(., breweries)),
          density = count / st_area(.)) %>%
   mapview(zcol = "density")
## End(Not run)
```

mapview-class

Class mapview

## Description

Class mapview

## **Slots**

```
object the spatial object
map the leaflet map object
```

mapview-defunct 23

mapview-defunct	Defunct functions in mapview	

#### Description

These functions have been removed from package mapview. See below for information on which package they have been moved to.

#### **Details**

- cubeview: This function is defunct, and has been migrated to package 'cubeview'.
- cubeView: This function is defunct, and has been migrated to package 'cubeview'.
- cubeViewOutput: This function is defunct, and has been migrated to package 'cubeview'.
- renderCubeView: This function is defunct, and has been migrated to package 'cubeview'.
- slideview: This function is defunct, and has been migrated to package 'slideview'.
- slideView: This function is defunct, and has been migrated to package 'slideview'.
- slideViewOutput: This function is defunct, and has been migrated to package 'slideview'.
- renderslideView: This function is defunct, and has been migrated to package 'slideview'.
- latticeView: This function is defunct, and has been migrated to package 'leafsync'.
- sync: This function is defunct, and has been migrated to package 'leafsync'.
- plainview: This function is defunct, and has been migrated to package 'plainview'.
- plainView: This function is defunct, and has been migrated to package 'plainview'.
- popupTable: This function is defunct, and has been migrated to package 'leafpop'.
- popupImage: This function is defunct, and has been migrated to package 'leafpop'.
- popupGraph: This function is defunct, and has been migrated to package 'leafpop'.
- addFeatures: This function is defunct, and has been migrated to package 'leafem'.
- garnishMap: This function is defunct, and has been migrated to package 'leafem'.
- addHomeButton: This function is defunct, and has been migrated to package 'leafem'.
- removeHomeButton: This function is defunct, and has been migrated to package 'leafem'.
- addImageQuery: This function is defunct, and has been migrated to package 'leafem'.
- addLogo: This function is defunct, and has been migrated to package 'leafem'.
- addMouseCoordinates: This function is defunct, and has been migrated to package 'leafem'.
- removeMouseCoordinates: This function is defunct, and has been migrated to package 'leafem'.
- addStaticLabels: This function is defunct, and has been migrated to package 'leafem'.
- addExtent: This function is defunct, and has been migrated to package 'leafem'.
- addStarsImage: This function is defunct, and has been migrated to package 'leafem'.

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mapviewColors

mapview version of leaflet::color\* functions

## Description

```
mapview version of leaflet::color* functions
Color palettes for mapview
```

## Usage

```
mapviewColors(
    x,
    zcol = NULL,
    colors = mapviewGetOption("vector.palette"),
    at = NULL,
    na.color = mapviewGetOption("na.color"),
    ...
)

mapviewPalette(name = "mapviewVectorColors")

mapViewPalette(name)
```

## Arguments

Х	Spatial* or Raster* object
zcol	the column to be colored
colors	color vector to be used for coloring the levels specified in at
at	numeric vector giving the breakpoints for the colors
na.color	the color for NA values.
	additional arguments passed on to level.colors
name	Name of the color palette to be used. One of "mapviewVectorColors" (default), "mapviewRasterColors", "mapviewSpectralColors" or "mapviewTopoColors".

## Author(s)

Tim Appelhans

## See Also

```
level.colors
colorRampPalette
```

mapviewOptions

Global options for the mapview package

#### **Description**

To permanently set any of these options, you can add them to <your R installation>/etc/Rprofile.site>. For example, to change the default number of pixels to be visualised for Raster\* objects, add a line like this: options(mapviewMaxPixels = 700000) to that file.

## Usage

```
mapviewOptions(
  platform,
  basemaps,
 basemaps.color.shuffle,
  raster.palette,
 vector.palette,
  verbose,
  na.color,
  legend,
  legend.opacity,
  legend.pos,
  layers.control.pos,
  leafletWidth,
  leafletHeight,
  viewer.suppress,
  homebutton,
 homebutton.pos,
  native.crs,
  raster.size,
 mapview.maxpixels,
 plainview.maxpixels,
  use.layer.names,
  trim,
 method,
  query.type,
  query.digits,
  query.position,
  query.prefix,
 maxpoints,
 maxpolygons,
 maxlines,
  pane,
  cex,
  alpha,
  default = FALSE,
  console = TRUE,
```

```
watch = FALSE,
fgb,
georaster
)
mapviewGetOption(param)
```

#### **Arguments**

platform character. The rendering platform to be used. Current options are "leaflet",

"mapdeck", and "leafgl".

basemaps character. The basemaps to be used for rendering data. See https://leaflet-extras.

github.io/leaflet-providers/preview/ for possible values

basemaps.color.shuffle

logical. Should basemaps order be changed to enhance contrast based on layer coloring. Set to FALSE if you supply custom basemaps or want to ensure that

"CartoDB.Positron" is always the default.

raster.palette a color palette function for raster visualisation. Should be a function that takes

an integer as input and returns a vector of colors. See colorRampPalette for

details.

vector.palette a color palette function for vector visualisation. Should be a function that takes

an integer as input and returns a vector of colors. See colorRampPalette for

details.

verbose logical. Many functions in mapview provide details about their behaviour. Set

this to TRUE if you want to see these printed to the console.

na.color character. The default color to be used for NA values.

legend logical. Whether or not to show a legend for the layer(s).

legend. opacity of the legend.

legend.pos Where should the legend be placed? One of "topleft", "topright", "bottomleft",

"bottomright".

layers.control.pos

character. Where should the layer control be placed? One of "topleft", "topright",

"bottomleft", "bottomright".

leafletWidth, leafletHeight

height and width of the htmlwidget in px.

viewer.suppress

whether to render the map in the browser (TRUE) or the RStudio viewer (FALSE).

homebutton logical, whether to add a zoom-to-layer button to the map.

homebutton.pos character. Where should the homebutton(s) be placed? One of "topleft", "topright",

"bottomleft", "bottomright".

native.crs logical whether to reproject to web map coordinate reference system (web mer-

cator - epsg:3857) or render using native CRS of the supplied data (can also be NA). Default is FALSE which will render in web mercator. If set to TRUE now background maps will be drawn (but rendering may be much quicker as no

reprojecting is necessary).

raster.size numeric. see the maxBytes argument in addRasterImage mapview.maxpixels

> numeric. The maximum amount of pixels allowed for Raster\* objects to be rendered with mapview. Defaults to 500000. Set this higher if you have a potent machine or are patient enough to wait a little.

plainview.maxpixels

numeric. The maximum amount of pixels allowed for Raster\* objects to be rendered with plainview. Defaults to 10000000. Set this higher if you have a potent machine or are patient enough to wait a little.

use.layer.names

whether to use layer names when plotting raster layers.

trim should the raster be trimmed in case there are NAs on the edges.

> for raster data only (raster/stars). Method used to compute values for the resampled layer that is passed on to leaflet. mapview does projection on-the-fly to ensure correct display and therefore needs to know how to do this projection. The default is 'bilinear' (bilinear interpolation), which is appropriate for continuous variables. The other option, 'ngb' (nearest neighbor), is useful for categorical variables. Ignored if the raster layer is of class factor in which case

"ngb" is used.

query.type for raster methods only. Whether to show raster value query on 'mousemove' or

'click'. Ignored if label = FALSE.

for raster methods only. The amount of digits to be shown by raster value query. query.digits

Ignored if label = FALSE.

for raster methods only. The position of the raster value query info box. See query.position

position argument of addLegend for possible values. Ignored if label = FALSE.

for raster methods only. a character string to be shown as prefix for the layerId. query.prefix

Ignored if label = FALSE.

maxpoints numeric. Maximum number of points allowed for leaflet overlay rendering. If this number is exceeded rendering will be done using special functionality which will provide much more speed and better handling. This means that standard

more.

numeric. Maximum number of polygons allowed for leaflet overlay rendering.

If this number is exceeded rendering will be done using special functionality which will provide much more speed and better handling. This means that standard functionality is reduced. For example adding layers via "+" is not possible

functionality is reduced. For example adding layers via "+" is not possible any-

anymore.

numeric. Maximum number of lines allowed for leaflet overlay rendering. If this

number is exceeded rendering will be done using special functionality which will provide much more speed and better handling. This means that standard functionality is reduced. For example adding layers via "+" is not possible any-

more.

name of the map pane in which to render features. See addMapPane for depane

tails. Currently only supported for vector layers. Ignored if canvas = TRUE. The default "auto" will create different panes for points, lines and polygons such

method

maxpolygons

maxlines

that points overlay lines overlay polygons. Set to NULL to get default leaflet behaviour where allfeatures are rendered in the same pane and layer order is

determined automatically/sequentially.

cex numeric or attribute name(s) or column number(s) in attribute table of the col-

umn(s) to be used for defining the size of circles.

alpha opacity of lines.

default logical. If TRUE all options are set to their default values console logical. Should the options be printed to the console

watch whether to watch a certain environment and automatically render changes to the

list of spatial data in that environment. See mapview Watcher for details.

fgb if set to TRUE mapview will not use 'clasical' leaflet/htmlwidgets rendering

(which embeds data directly in the html) but leverage the speed of a file format called flatgeobuf (hence, fgb). This has the added benefit that data is being streamed onto the map, which makes for a pleasant user experience. It should also help to visualise larger data sets due to a reduced memeory footprint. A note of warning, data will be attached to the html via a <src=...> call which means that the html is not selfcontained anymore (so it cannot be used without

an accompanying folder).

georaster whether to use addGeoRaster instead of addRasterImage. If set to TRUE raster

image visualisation will be more performant for large raster data, but given the

nearest neighbor resampling results may be slightly distorted.

param character. parameter(s) to be queried.

#### Value

list of the current options (invisibly). If no arguments are provided the options are printed.

#### **Functions**

• mapviewGetOption(): query mapviewOptions parameters.

#### Author(s)

Tim Appelhans

#### See Also

```
rasterOptions, options
```

#### **Examples**

```
mapviewOptions()
mapviewOptions(na.color = "pink")
mapviewOptions()

mapviewGetOption("platform")

mapviewOptions(default = TRUE)
```

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```
mapviewOptions()
```

mapviewOutput

Create a mapview UI element for use with shiny

#### **Description**

Create a mapview UI element for use with shiny

#### Usage

```
mapviewOutput(outputId, width = "100%", height = 400)
```

## Arguments

outputId	Output variable to read from
width, height	the width and height of the map (see shinyWidgetOutput)

mapviewWatcher

Start and/or stop automagic mapviewing of spatial objects in your workspace.

#### **Description**

Use these functions to enable automatic vieweing of all spatial objects currently available in env. mapviewWatcher uses later to set up a watcher function that continuously monitors env for spatial objects and refreshes the viewer/browser in case the list of spatial objects changes.

startWatching and stopWatching are convenience functions to start and stop watching, respectively.

## Usage

```
mapviewWatcher(env = .GlobalEnv, ...)
startWatching(env = .GlobalEnv, ...)
stopWatching(env = .GlobalEnv, ...)
```

## Arguments

```
env the environemnt that is being watched (default is .GlobalEnv).
... currently not used.
```

npts

#### **Details**

mapviewWatcher uses identical and hence will redraw even if e.g. the attributes of a spatial object are changed only slightly. By default mapviewWatcher watches the .GlobalEnv but this can be changed to another environment. Whether watching is turned on is controlled by mapviewGetOption("watch"). In order to enable watching it needs to be set to mapviewOptions(watch = TRUE) (default is FALSE) and the watcher needs to be initiated by calling mapviewWatcher() once. To switch watching off it is sufficient to set mapviewOptions(watch = FALSE).

#### **Functions**

- startWatching(): start watchingstopWatching(): stop watching
- **Examples**

```
if (interactive()) {
  library(mapview)
  ## start the watcher
 mapview::startWatching()
  ## load some data and watch the automatic visualisation
  fran = mapview::franconia
  brew = mapview::breweries
  ## stop the watcher
  mapview::stopWatching()
  ## loading or removing things now will not trigger a view update
  rm(brew)
  trls = mapview::trails
  ## re-starting the viewer will re-draw whatever is currently available
  mapview::startWatching()
  ## watcher can also be stopped via mapviewOptions
  mapviewOptions(watch = FALSE)
  rm(trls)
}
```

npts

count the number of points/vertices/nodes of sf objects

#### **Description**

count the number of points/vertices/nodes of sf objects

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#### Usage

```
npts(x, by_feature = FALSE)
```

## **Arguments**

```
x an sf/sfc object
by_feature count total number of vertices (FALSE) of for each feature (TRUE).
```

#### Note

currently only works for \*POINTS, \*LINES and \*POLYGONS (not GEOMETRYCOLLECTION).

## **Examples**

```
npts(franconia)
npts(franconia, by_feature = TRUE)
npts(sf::st_geometry(franconia[1, ])) # first polygon
npts(breweries) # is the same as
nrow(breweries)
```

ops

mapview + mapview adds data from the second map to the first

#### Description

```
mapview + mapview adds data from the second map to the first
mapview + data adds spatial data (raster*, sf*, sp*) to a mapview map
mapview + NULL returns the LHS map
[...]
mapview | mapview provides a slider in the middle to compare two maps.
mapview | NULL returns the LHS map
NULL | mapview returns the RHS map
```

## Usage

```
## S4 method for signature 'mapview, mapview'
e1 + e2
## S4 method for signature 'mapview, ANY'
e1 + e2
## S4 method for signature 'mapview, `NULL`'
e1 + e2
```

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```
## S4 method for signature 'mapview, character'
e1 + e2
## S4 method for signature 'mapview, `NULL`'
e1 | e2
## S4 method for signature '`NULL`, mapview'
e1 | e2
```

#### **Arguments**

e1 a leaflet or mapview map, or NULL.e2 a leaflet or mapview map, or NULL.

## **Examples**

```
m1 <- mapView(franconia, col.regions = "red")
m2 <- mapView(breweries)

### add two mapview objects
m1 + m2

### add layers to a mapview object
if (interactive()) {
  library(plainview)
  m1 + breweries + plainview::poppendorf[[4]]
}

m1 <- mapView(franconia, col.regions = "red")
m2 <- mapView(breweries)

### add two mapview objects
m1 | m2</pre>
```

## **Description**

Method for printing mapview objects

#### Usage

```
## S4 method for signature 'mapview'
print(x)
```

removeMapJunk 33

#### **Arguments**

x a mapview object

removeMapJunk

Delete elements from a map.

## **Description**

Delete elements from a map.

## Usage

```
removeMapJunk(map, junk = NULL)
```

## Arguments

map the map from which to remove elements.

junk a charcter vector of elements to remove. If NULL (the default), nothing is re-

moved and the map is returned as is. See Details for a list of currently supported

elements.

#### **Details**

Currently supports removal of

- "zoomControl"
- "layersControl"
- "homeButton"
- "scaleBar"
- "drawToolbar"
- "easyButton"

This is mainly useful when taking a static screenshot of a map.

## **Examples**

```
if (interactive()) {
    library(mapview)

map = mapview(franconia)

removeMapJunk(map, "zoomControl")
}
```

rende	rMap	view

Render a mapview widget in shiny

## Description

Render a mapview widget in shiny

## Usage

```
renderMapview(expr, env = parent.frame(), quoted = FALSE)
```

## **Arguments**

expr An expression that generates an HTML widget

env The environment in which to evaluate expr

quoted Is expr a quoted expression (with quote())? This is useful if you want to save an

expression in a variable

 $\verb|show,mapview-method||$ 

Method for printing mapview objects (show)

## Description

Method for printing mapview objects (show)

## Usage

```
## S4 method for signature 'mapview'
show(object)
```

## Arguments

object

a mapview object

trails 35

trails

Selected hiking trails in Franconia

## **Description**

Selected hiking trails in Franconia

#### **Format**

```
sf feature collection MULTILINESTRING
```

#### **Details**

These hiking trails were downloaded on 06/04/2017 from https://geoportal.bayern.de/bayernatlas These data are published by the owner under Creative Commons Namensnennung 3.0 Deutschland, see https://creativecommons.org/licenses/by/3.0/de/ for details.

#### **Source**

Datenquelle: Bayerische Vermessungsverwaltung - www.geodaten.bayern.de https://www.ldbv.bayern.de/produkte/weitere/opendata.html

viewExtent

View extent/bbox of spatial objects interactively

## **Description**

This function produces an interactive view of the extent/bbox of the supplied spatial object

## Usage

```
viewExtent(
    x,
    map = NULL,
    popup = NULL,
    layer.name = NULL,
    alpha.regions = 0.2,
    label = NULL,
    ...
)
```

36 viewRGB

## **Arguments**

x either a Raster\*, sf\* or Spatial\* object

a leaflet or mapview map the extent should be added to. If NULL standard background layers are created.

popup a list of HTML strings with the popup contents, usually created from popupTable. See addControl for details.

layer.name the name of the layer to be shown on the map.

alpha.regions opacity of the fills or the raster layer(s).

label a character vector of labels to be shown on mouseover. See addControl for

details.

... additional arguments passed on to addRectangles

#### Author(s)

Tim Appelhans

## **Examples**

```
library(leaflet)
viewExtent(breweries)
viewExtent(franconia) + breweries
mapview(franconia) %>% leafem::addExtent(franconia, fillColor = "yellow")
leaflet() %>% addProviderTiles("OpenStreetMap") %>% leafem::addExtent(breweries)
leaflet() %>% addProviderTiles("OpenStreetMap") %>% leafem::addExtent(breweries)
```

viewRGB

Red-Green-Blue map view of a multi-layered Raster object

## Description

Make a Red-Green-Blue plot based on three layers (in a RasterBrick, RasterStack). Three layers (sometimes referred to as "bands" because they may represent different bandwidths in the electromagnetic spectrum) are combined such that they represent the red, green and blue channel. This function can be used to make 'true (or false) color images' from Landsat and other multi-band satellite images. Note, this text is plagiarized, i.e. copied from plotRGB.

## Usage

```
viewRGB(
    x,
    r = 3,
    g = 2,
    b = 1,
    quantiles = c(0.02, 0.98),
```

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```
map = NULL,
maxpixels = mapviewGetOption("mapview.maxpixels"),
map.types = mapviewGetOption("basemaps"),
na.color = mapviewGetOption("na.color"),
layer.name = NULL,
method = c("bilinear", "ngb"),
...
)
```

## **Arguments**

x	a RasterBrick, RasterStack
r	integer. Index of the Red channel/band, between 1 and nlayers(x)
g	integer. Index of the Green channel/band, between 1 and nlayers(x)
b	integer. Index of the Blue channel/band, between 1 and nlayers(x)
quantiles	the upper and lower quantiles used for color stretching. If set to NULL, no stretching is applied.
map	the map to which the layer should be added
maxpixels	integer > 0. Maximum number of cells to use for the plot. If maxpixels < ncell(x), sampleRegular is used before plotting.
map.types	character spcifications for the base maps. see https://leaflet-extras.github.io/leaflet-providers/preview/ for available options.
na.color	the color to be used for NA pixels
layer.name	the name of the layer to be shown on the map
method	Method used to compute values for the resampled layer that is passed on to leaflet. mapview does projection on-the-fly to ensure correct display and therefore needs to know how to do this projection. The default is 'bilinear' (bilinear interpolation), which is appropriate for continuous variables. The other option, 'ngb' (nearest neighbor), is useful for categorical variables.
	additional arguments passed on to mapView

#### Author(s)

Tim Appelhans

## **Examples**

```
if (interactive()) {
    library(raster)
    library(plainview)

    viewRGB(plainview::poppendorf, 4, 3, 2) # true-color
    viewRGB(plainview::poppendorf, 5, 4, 3) # false-color
}
```

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