

Package: mapview (via r-universe)

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Title Interactive Viewing of Spatial Data in R

Version 2.11.2.9000

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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 true- and false-color raster images and bounding boxes.

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URL <https://github.com/r-spatial/mapview>,
<https://r-spatial.github.io/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 7.3.1

SystemRequirements GNU make

Repository <https://r-spatial.r-universe.dev>

RemoteUrl <https://github.com/r-spatial/mapview>

RemoteRef HEAD

RemoteSha 78945c5c68e290aa908746a56b520fc1c6c9d44f

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| | |
|-----------------|--|
| mapview-package | <i>Interactive viewing of spatial objects in R</i> |
|-----------------|--|

Description

Interactive viewing of spatial objects in R

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.

Author(s)

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See Also

Useful links:

- <https://github.com/r-spatial/mapview>
- <https://r-spatial.github.io/mapview/>
- Report bugs at <https://github.com/r-spatial/mapview/issues>

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 <https://www.bierwandern.de/inhalt/brauereiliste.html> with the kind permission of Rainer Kastl. Note that use of these data is restricted to non-commercial use and that they are explicitly excluded from the GPL license that mapview is licensed under.

franconia

Administrative district borders of Franconia

Description

Administrative district borders of Franconia

Format

sf feature collection MULTIPOLYGON

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

<https://ec.europa.eu/eurostat/web/gisco/geodata/reference-data/administrative-units-statistical-units/nuts>

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(
  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). |
| url | 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. Ignored 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](#).

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_fl)

## 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_fl)

## 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_fl)

## 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_fl)

## End(Not run)

```

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(
  x,
  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(
  x,
  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(
  x,
  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(
  x,
  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(
  x,
  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(
  x,
  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(
  x,
  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(
  x,
  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(
  x,
  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(
  x,
  map = NULL,
  tms = TRUE,
  color = standardColor(),
  col.regions = standardColRegions(),
  at = NULL,
  na.color = mapViewGetOption("na.color"),
  cex = 6,
  lwd = 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(
  x,
  xcol,
  ycol,
  grid = TRUE,
  aspect = 1,
  popup = leafpop::popupTable(x, className = "mapview-popup"),
  label,
  crs = NA,
  ...
)

## S4 method for signature 'XY'
mapView(
  x,
  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(
  x,
  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(
  x,
  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())), width.cutoff = 500L),
  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(
  x,
  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(
  x,
  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

| | |
|------------------------|--|
| <code>x</code> | 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. |
| <code>map</code> | an optional existing map to be updated/added to. |
| <code>maxpixels</code> | integer > 0. Maximum number of cells to use for the plot. If maxpixels < ncell(x), sampleRegular is used before plotting. |

| | |
|------------------------------|---|
| <code>col.regions</code> | color (palette) pixels. See levelplot for details. |
| <code>at</code> | the breakpoints used for the visualisation. See levelplot for details. |
| <code>na.color</code> | color for missing values |
| <code>use.layer.names</code> | should layer names of the Raster* object be used? |
| <code>map.types</code> | character specifications for the base maps. see https://leaflet-extras.github.io/leaflet-providers/preview/ for available options. |
| <code>alpha.regions</code> | opacity of the fills of points, polygons or raster layer(s) |
| <code>legend</code> | should a legend be plotted |
| <code>legend.opacity</code> | opacity of the legend |
| <code>trim</code> | should the raster be trimmed in case there are NAs on the edges |
| <code>verbose</code> | should some details be printed during the process |
| <code>layer.name</code> | the name of the layer to be shown on the map. By default this is the character version of whatever is passed to <code>x</code> . NOTE: This is being passed to underlying leaflet functions as the <code>group</code> argument. So if you use <code>mapview</code> to set up a map and want to refer to a certain layer later on, this is what you should refer to in <code>group</code> . |
| <code>homebutton</code> | logical, whether to add a zoom-to-layer button to the map. Defaults to TRUE |
| <code>native.crs</code> | logical whether to reproject to web map coordinate reference system (web mercator - 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. |
| <code>method</code> | for raster data only (raster/stars). Method used to compute values for the re-sampled layer that is passed on to leaflet. <code>mapview</code> 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 <code>factor</code> in which case "ngb" is used. |
| <code>label</code> | 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. |
| <code>query.type</code> | for raster methods only. Whether to show raster value query on 'mousemove' or 'click'. Ignored if <code>label = FALSE</code> . |
| <code>query.digits</code> | for raster methods only. The amount of digits to be shown by raster value query. Ignored if <code>label = FALSE</code> . |
| <code>query.position</code> | for raster methods only. The position of the raster value query info box. See <code>position</code> argument of addLegend for possible values. Ignored if <code>label = FALSE</code> . |
| <code>query.prefix</code> | for raster methods only. a character string to be shown as prefix for the <code>layerId</code> . Ignored if <code>label = FALSE</code> . |
| <code>viewer.suppress</code> | deprecated. Use <code>mapviewOptions(viewer.suppress = TRUE/FALSE)</code> instead. |

| | |
|-----------|--|
| hide | either a logical, a vector of layer names or a vector of layer indices. See Details for more information on what exactly it does for different raster types. |
| ... | 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. |
| band | for stars layers, the band number to be plotted. |
| pane | name of the map pane in which to render features. See addMapPane for details. Currently only supported for vector layers. Ignored if <code>canvas = TRUE</code> . 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 all features 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 https://leafletjs.com/index.html#canvas for more information. Only applicable for vector data. The default setting will decide automatically, 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. |
| y | numeric vector. |
| type | whether to render the numeric vector x as a point "p" or line "l" plot. |
| grid | whether to plot a (scatter plot) xy-grid to aid interpretation of the visualisation. Only relevant for the <code>data.frame</code> method. |
| xcol | the column to be mapped to the x-axis. Only relevant for the <code>data.frame</code> method. |
| ycol | the column to be mapped to the y-axis. Only relevant for the <code>data.frame</code> method. |

| | |
|--------|--|
| aspect | the ratio of x/y axis coordinates 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 performance. 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))
```

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 queryable.

`hide` if TRUE, will hide the layer in case of a single `RasterLayer` and all but the first layer in case of a multilayer `RasterStackBrick`. If a vector of layer names or indices is supplied, these will be hidden (only applicable for multi-layer `RasterStackBricks`).

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

```
## Not run:
mapview()

## simple features =====
library(sf)

# sf
mapview(breweries)
mapview(franconia)

# sfc
mapview(st_geometry(breweries)) # no popup

# sfg / XY - taken from ?sf::st_point
outer = matrix(c(0,0,10,0,10,10,0,10,0,0),ncol=2, byrow=TRUE)
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)

## raster =====
if (interactive()) {
```

```

library(plainview)

mapview(plainview::poppendorf[[5]])
}

## spatial objects =====
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
mapview(franconia, zcol = "district", col.regions = clrs, legend = TRUE)

### multiple layers =====
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))

### burst =====
mapview(franconia, burst = TRUE)
mapview(franconia, burst = TRUE, hide = TRUE)
mapview(franconia, zcol = "district", burst = TRUE)

### ceci constitue la fin du pipe =====
library(poorman)
library(sf)

franconia %>%
  sf::st_union() %>%
  mapview()

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

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'`.

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

| | |
|----------|--|
| x | 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".

| | |
|--|--|
| <code>basemaps</code> | character. The basemaps to be used for rendering data. See https://leaflet-extras.github.io/leaflet-providers/preview/ for possible values |
| <code>basemaps.color.shuffle</code> | 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. |
| <code>raster.palette</code> | 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. |
| <code>vector.palette</code> | 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. |
| <code>verbose</code> | logical. Many functions in mapview provide details about their behaviour. Set this to TRUE if you want to see these printed to the console. |
| <code>na.color</code> | character. The default color to be used for NA values. |
| <code>legend</code> | logical. Whether or not to show a legend for the layer(s). |
| <code>legend.opacity</code> | opacity of the legend. |
| <code>legend.pos</code> | Where should the legend be placed? One of "topleft", "topright", "bottomleft", "bottomright". |
| <code>layers.control.pos</code> | character. Where should the layer control be placed? One of "topleft", "topright", "bottomleft", "bottomright". |
| <code>leafletWidth, leafletHeight</code> | height and width of the htmlwidget in px. |
| <code>viewer.suppress</code> | whether to render the map in the browser (TRUE) or the RStudio viewer (FALSE). |
| <code>homebutton</code> | logical, whether to add a zoom-to-layer button to the map. |
| <code>homebutton.pos</code> | character. Where should the homebutton(s) be placed? One of "topleft", "topright", "bottomleft", "bottomright". |
| <code>native.crs</code> | logical whether to reproject to web map coordinate reference system (web mercator - 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). |
| <code>raster.size</code> | numeric. see the <code>maxBytes</code> argument in addRasterImage |
| <code>mapview.maxpixels</code> | 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. |
| <code>plainview.maxpixels</code> | 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. |
| 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. |
| 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. |
| 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 functionality is reduced. For example adding layers via "+" is not possible anymore. |
| maxpolygons | 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 anymore. |
| maxlines | 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 anymore. |
| pane | name of the map pane in which to render features. See addMapPane for details. 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 all features 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 column(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 mapviewWatcher for details. |
| fgb | if set to TRUE mapview will not use 'classical' 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 memory 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)
mapviewOptions()
```

| | |
|---------------|---|
| mapviewOutput | <i>Create a mapview UI element for use with shiny</i> |
|---------------|---|

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 | <i>Start and/or stop automagic mapviewing of spatial objects in your workspace.</i> |
|----------------|---|

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. |

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 watching
- `stopWatching()`: 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

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
```

```
## 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
```

print,mapview-method *Method for printing mapview objects*

Description

Method for printing mapview objects

Usage

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


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 character vector of elements to remove. If NULL (the default), nothing is removed 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")  
}
```

| | |
|---------------|---|
| renderMapView | <i>Render a mapview widget in shiny</i> |
|---------------|---|

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 |

| | |
|---------------------|---|
| show,mapview-method | <i>Method for printing mapview objects (show)</i> |
|---------------------|---|

Description

Method for printing mapview objects (show)

Usage

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

Arguments

| | |
|--------|------------------|
| object | a mapview object |
|--------|------------------|

| | |
|--------|--|
| trails | <i>Selected hiking trails in Franconia</i> |
|--------|--|

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 | <i>View extent/bbox of spatial objects interactively</i> |
|------------|--|

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,  
  ...  
)
```

Arguments

| | |
|---------------|---|
| x | either a Raster*, sf* or Spatial* object |
| map | 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),
```

```

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 specifications 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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