

# Package: biocGraph (via r-universe)

May 29, 2026

**Title** Graph examples and use cases in Bioinformatics

**Description** This package provides examples and code that make use of the different graph related packages produced by Bioconductor.

**Version** 1.74.0

**Date** 2012-04-27

**Author** Li Long <li.long@isb-sib.ch>, Robert Gentleman <rgentlem@fhcrc.org>, Seth Falcon <sethf@fhcrc.org> Florian Hahne <fhahne@fhcrc.org>

**Maintainer** Florian Hahne <florian.hahne@novartis.com>

**Depends** Rgraphviz, graph

**Imports** Rgraphviz, geneplotter, graph, BiocGenerics, methods

**Suggests** fibroEset, geneplotter, hgu95av2.db

**License** Artistic-2.0

**LazyLoad** Yes

**biocViews** Visualization, GraphAndNetwork

**Config/pak/sysreqs** libpng-dev libxml2-dev libssl-dev zlib1g-dev

**Repository** <https://bioc-release.r-universe.dev>

**Date/Publication** 2026-04-28 12:32:26 UTC

**RemoteUrl** <https://github.com/bioc/biocGraph>

**RemoteRef** RELEASE\_3\_23

**RemoteSha** eb715c2c9699c4a717304c16067c96c6a5cdceac

## Contents

imageMap-methods . . . . .	2
<b>Index</b>	<b>5</b>

---

 imageMap-methods

 Write an HTML IMG tag together with a MAP image map.
 

---

### Description

Write an HTML IMG tag together with a MAP image map.

### Usage

```
## S4 method for signature 'Ragraph,connection,list,character'
imageMap(object, con, tags, imgname, width, height, usr = par("usr"))
## S4 method for signature 'graph,connection,list,character'
imageMap(object, con, tags, imgname, width, height)
```

### Arguments

object	The graph layout for which we want to create an image map.
con	Connection to which the image map is written.
tags	Named list whose elements are named character vectors. Names must correspond to node names in object. See details.
imgname	Character. Name of the image file (for example PNG file) that contains the plot.
width	Width of the image.
height	Height of the image.
usr	Numeric vector of length 4. The user coordinates in the plot window that object was plotted into.

### Details

The most important tags are TITLE, HREF, and TARGET. If the list tags contains an element with name TITLE, then this must be a named character vector containing the tooltips that are to be displayed when the mouse moves over a node. The names of the nodes are specified in the names attribute of the character vector and must match those of object.

Similarly, HREF may be used to specify hyperlinks that the browser can follow when the mouse clicks on a node, and TARGET to specify the target browser window.

Currently, only rectangular regions are implemented; the actual shape of the nodes as specified in object is ignored. Also, tags for edges of the graph are currently not supported.

This function is typically used with the following sequence of steps:

1. Create a graph layout with [agopen](#)
2. Plot it into a bitmap device, e.g. [jpeg](#) or [png](#).
3. Write HTML header.
4. Call the [imageMap](#) function.
5. Optionally, write further text into the HTML connection.

6. Close HTML file.

The new API for plotting of graphs now also allows for this alternative procedure:

1. Lay out the graph object foo using `layoutGraph`
2. render the graph on a bitmap device using `renderGraph` like this: `foo <- renderGraph(foo)`
3. Write HTML header.
4. Call the `imageMap` on the graph object foo.
5. Optionally, write further text into the HTML connection.
6. Close HTML file.

### Value

The function is called for its side effect, which is writing text into the connection con.

### Author(s)

Wolfgang Huber <http://www.ebi.ac.uk/huber>

### See Also

[agopen](#)

### Examples

```
fhtml = paste(tempfile(), ".html", sep="")
fpng =paste(tempfile(), ".png", sep="")

if(capabilities()["png"] && interactive()) {

  ## Create a random graph, make tooltips and hyperlinks
  set.seed(123)
  g = randomEGraph(letters[14:22], 0.2)

  tooltip = paste("This is node", nodes(g))
  url = paste("This could be a link for node", nodes(g))
  names(url) = names(tooltip) = nodes(g)

  ## Open plot device
  width = height = 512
  png(fpng, width=width, height=height)
  par(mai=rep(0,4))

  ## Layout and render
  lg = agopen(g, name="My layout")
  plot(lg)

  ## Write an HTML file with the image map
  con = file(fhtml, open="wt")
  writeLines("<html><head><title>Click Me</title></head><body>\n", con)
```

```
imageMap(lg, con, fpng, tags=list(HREF=url, TITLE=tooltip), width=width, height=height)

writeLines("</body></html>", con)
close(con)
dev.off()

cat("Now have a look at file", fhtml, "with your browser.\n")
browseURL(fhtml)
}
```

# Index

## \* **iplot**

imageMap-methods, [2](#)

agopen, [2](#), [3](#)

imageMap, [2](#), [3](#)

imageMap (imageMap-methods), [2](#)

imageMap, graph, connection, list, character-method  
(imageMap-methods), [2](#)

imageMap, graph-method  
(imageMap-methods), [2](#)

imageMap, Ragraph, connection, list, character-method  
(imageMap-methods), [2](#)

imageMap, Ragraph-method  
(imageMap-methods), [2](#)

imageMap-methods, [2](#)

jpeg, [2](#)

layoutGraph, [3](#)

png, [2](#)

renderGraph, [3](#)