

# Package ‘BiocStyle’

April 22, 2016

**Title** Standard styles for vignettes and other Bioconductor documents

**Description** Provides standard formatting styles for Bioconductor PDF and HTML documents. Package vignettes illustrate use and functionality.

**Version** 1.8.0

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**Maintainer** Bioconductor Package Maintainer <maintainer@bioconductor.org>

**Suggests** knitr (>= 1.7), rmarkdown, BiocGenerics, RUnit

**biocViews** Software

**License** Artistic-2.0

**VignetteBuilder** knitr

**Encoding** UTF-8

**URL** <https://github.com/Bioconductor/BiocStyle>

**BugReports** <https://github.com/Bioconductor/BiocStyle/issues>

**NeedsCompilation** no

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html\_document

*Use Bioconductor style to format R Markdown HTML output*


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## Description

Format for converting from R Markdown to an Bioconductor HTML document.

## Usage

```
html_document(toc = TRUE, toc_depth = 3, number_sections = TRUE,
  fig_width = 7, fig_height = 5, fig_retina = NULL,
  fig_caption = FALSE, dev = "png", smart = TRUE, self_contained = TRUE,
  highlight = "default", mathjax = "default",
  css = NULL, includes = NULL, keep_md = FALSE,
  lib_dir = NULL, md_extensions = NULL, pandoc_args = NULL, ...)
```

## Arguments

toc	TRUE to include a table of contents in the output
toc_depth	Depth of headers to include in table of contents
number_sections	TRUE to number section headings
fig_width	Default width (in inches) for figures
fig_height	Default width (in inches) for figures
fig_retina	Scaling to perform for retina displays
fig_caption	TRUE to render figures with captions
dev	Graphics device to use for figure output (defaults to png)
smart	Produce typographically correct output, converting straight quotes to curly quotes, — to em-dashes, – to en-dashes, and ... to ellipses.
self_contained	Produce a standalone HTML file with no external dependencies, using data: URIs to incorporate the contents of linked scripts, stylesheets, images, and videos. Note that even for self contained documents MathJax is still loaded externally (this is necessary because of it's size).
highlight	Syntax highlighting style. Supported styles include "default", "tango", "pygments", "kate", "monochrome", "espresso", "zenburn", "haddock", and "textmate". Pass NULL to prevent syntax highlighting.
mathjax	Include mathjax. The "default" option uses an https URL from the official MathJax CDN. The "local" option uses a local version of MathJax (which is copied into the output directory). You can pass an alternate URL or pass NULL to exclude MathJax entirely.
css	One or more css files to include
includes	Named list of additional content to include within the document (typically created using the <a href="#">includes</a> function).

keep_md	Keep the markdown file generated by knitting.
lib_dir	Directory to copy dependent HTML libraries (e.g. jquery, bootstrap, etc.) into. By default this will be the name of the document with <code>_files</code> appended to it.
md_extensions	Markdown extensions to be added or removed from the default definition or R Markdown. See the <a href="#">rmarkdown_format</a> for additional details.
pandoc_args	Additional command line options to pass to pandoc
...	Additional function arguments to pass to the base R Markdown HTML output formatter

## Details

The `BiocStyle::html_document` format is based on the [html\\_document](#) format. See the [online documentation](#) for additional details on using the `html_document` format.

R Markdown documents can have optional metadata that is used to generate a document header that includes the title, author, date, package info and abstract. For more details see the documentation on R Markdown [metadata](#).

R Markdown documents also support citations. You can find more information on the markdown syntax for citations in the [Bibliographies and Citations](#) article in the online documentation.

## Value

R Markdown output format to pass to [render](#)

## Author(s)

Andrzej Oleś <[andrzej.oles@embl.de](mailto:andrzej.oles@embl.de)>, 2014-2015

## See Also

[pdf\\_document](#)

## Examples

```
## Not run:  
  
# simple invocation  
render("input.Rmd", BiocStyle::html_document())  
  
# specify options  
render("input.Rmd", BiocStyle::html_document(toc = FALSE))  
  
## End(Not run)
```

---

`latex`*Use Bioconductor styles to format LaTeX vignettes*

---

### Description

This function inserts code into a document preamble to provide a consistent style to Bioconductor vignettes

### Usage

```
latex(..., width=90, short.fignames=FALSE, fig.path, error=FALSE,
      use.unsrurl=TRUE)
```

### Arguments

<code>...</code>	Additional arguments, passed to <a href="#">options</a> .
<code>width</code>	integer(1), maximum number of columns on a line used in printing. See <a href="#">options</a> .
<code>short.fignames</code>	logical(1), indicates whether <code>\incfig</code> figures should be inserted and referred to using short names equal to corresponding code chunk labels without any additional prefix.
<code>fig.path</code>	character(1), custom prefix to be used for figure file names when used with <code>knitr</code> ; has no effect when compiled with <code>Sweave</code> . For details see <a href="#">opts_chunk</a> .
<code>error</code>	logical(1), behavior of <code>knitr</code> when errors occur in vignette code chunks, has no effect when compiled with <code>Sweave</code> . The default ( <code>FALSE</code> ) means that errors stop vignette processing, which is appropriate when packages are being built and checked. For details see <a href="#">opts_chunk</a> .
<code>use.unsrurl</code>	logical(1), indicating that the ‘ <code>unsrurl</code> ’ style will be used ( <code>\bibliographystyle</code> command <i>not</i> required).

### Details

Use is described in the ‘Bioconductor LaTeX Style’ vignette.

By default the ‘`unsrurl`’ bibliography style is used, which automatically creates links to URL, DOIs, etc. Use a different `bibliographystyle` with `use.unsrurl=FALSE` and standard LaTeX commands for styling bibliographies.

### Value

The return value is a character string directing LaTeX to use the Bioconductor style file.

A side effect is setting any options specified as arguments.

### Author(s)

Martin Morgan [mtmorgan@fhcrc.org](mailto:mtmorgan@fhcrc.org), Andrzej Oleś, Wolfgang Huber

**Examples**

```
## location of the .sty file
BiocStyle:::bioconductor.sty
```

---

markdown

*Use Bioconductor CSS style to format HTML vignettes*

---

**Description**

This function sets the Bioconductor style sheet to provide a consistent style across Bioconductor HTML vignettes.

**Usage**

```
markdown(css.files, self.contained = TRUE, links.target = TRUE)
```

**Arguments**

`css.files` character vector containing the location of additional .css files.

`self.contained` logical(1), should the content of the CSS stylesheet files be included into the html file or should they be saved as separate files.

`links.target` logical(1), should external links open in new browser tab/window.

**Details**

Use is described in the ‘Bioconductor CSS Style’ vignette.

**Value**

No value is returned. The function is called for its side effect of setting the markdown and/or knitr specific options controlling the inclusion of the Bioconductor CSS style file in the HTML output.

**Author(s)**

Andrzej Oleś <andrzej.oles@embl.de>, 2014-2015

**Examples**

```
## location of the .css file
BiocStyle:::bioconductor.css
```

---

pdf\_document

*Use Bioconductor style to format R Markdown PDF output*

---

## Description

This function sets the Bioconductor style in PDF documents rendered using R Markdown v2.

## Usage

```
pdf_document(toc = TRUE, number_sections = TRUE, use.unsrurl = TRUE, includes, ...)
```

## Arguments

toc	logical(1), TRUE to include a table of contents in the output.
number_sections	logical(1), TRUE to number section headings.
use.unsrurl	logical(1), indicating that the 'unsrurl' style will be used ( <code>\bibliographystyle</code> command <i>not</i> required).
includes	Named list of additional content to include within the document
...	Additional arguments, passed to <a href="#">pdf_document</a> .

## Value

R Markdown output format to pass to `rmarkdown::render`.

## Author(s)

Andrzej Oleś <[andrzej.oles@embl.de](mailto:andrzej.oles@embl.de)>, 2014-2015

## See Also

[html\\_document](#)

## Examples

```
## Not run:  
  
# simple invocation  
render("input.Rmd", BiocStyle::pdf_document())  
  
# specify an option for latex engine  
render("input.Rmd", BiocStyle::pdf_document(toc = FALSE))  
  
## End(Not run)
```

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