

# Package ‘Nozzle.R1’

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**Type** Package

**Title** Nozzle Reports

**Version** 1.0-0

**Date** 2012-01-08

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**Description** The Nozzle package provides an API to generate HTML reports with dynamic user interface elements based on JavaScript and CSS (Cascading Style Sheets). Nozzle was designed to facilitate summarization and rapid browsing of complex results in data analysis pipelines where multiple analyses are performed frequently on big data sets. The package can be applied to any project where user-friendly reports need to be created.

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**LazyLoad** yes

**Collate** ‘nozzle.R’

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---

Nozzle.R1-package      *Nozzle: a Report Generation Toolkit for Data Analysis Pipelines*

---

### Description

Provides a high-level API to generate HTML reports with dynamic user interface elements.

### Details

Package:	Nozzle.R1
Type:	Package
Version:	1.0-0
Date:	2013-01-08
License:	LGPL (>= 2)
LazyLoad:	yes

Nozzle was designed to facilitate summarization and rapid browsing of complex results in data analysis pipelines where multiple analyses are performed frequently on big data sets.

### Note

The "R1" in the "Nozzle.R1" package name stands for "revision 1" of the Nozzle R API. All versions of the Nozzle.R1 package will be backwards-compatible and able to render reports generated with earlier versions of the package. When backwards-compatibility of the API can no longer be maintained the package name will change to "Nozzle.R2".

### Author(s)

Nils Gehlenborg <nils@hms.harvard.edu>

### References

<http://www.github.com/parklab/Nozzle>, <http://gdac.broadinstitute.org/nozzle>

---

addTo      *Add child elements to a parent element.*

---

### Description

Add child elements to a parent element.

### Usage

```
addTo(parent, ..., row = NA, column = NA)
```

**Arguments**

parent	Parent element.
...	One or more child elements.
row	If parent element is a table row and column indices must be provided to add supplementary results to cell in the table.
column	If parent element is a table row and column indices must be provided to add supplementary results to cell in the table.

**Value**

Updated parent element.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

addToInput	<i>Add elements to the "Input" subsection in the "Methods &amp; Data" section of a standard report.</i>
------------	---

---

**Description**

Add elements to the "Input" subsection in the "Methods & Data" section of a standard report.

**Usage**

```
addToInput(report, ...)
```

**Arguments**

report	Report element.
...	Elements that will be added to the input section. Often these are paragraph elements.

**Value**

Updated report element.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

addToIntroduction	<i>Add elements to the "Introduction" subsection in the "Overview" section of a standard report.</i>
-------------------	--

---

**Description**

Add elements to the "Introduction" subsection in the "Overview" section of a standard report.

**Usage**

```
addToIntroduction(report, ...)
```

**Arguments**

report	Report element.
...	Elements that will be added to the introduction section. Often these are paragraph elements.

**Value**

Updated report element.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

addToMeta	<i>Add elements to the "Meta" section of a standard report.</i>
-----------	---

---

**Description**

Add elements to the "Meta" section of a standard report.

**Usage**

```
addToMeta(report, ...)
```

**Arguments**

report	Report element.
...	Elements that will be added to the references section. These may be any elements.

**Value**

Updated report element.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

addToMethods	<i>Add elements to the "Methods &amp; Data" section of a standard report.</i>
--------------	---

---

**Description**

Add elements to the "Methods & Data" section of a standard report.

**Usage**

```
addToMethods(report, ...)
```

**Arguments**

report	Report element.
...	Elements that will be added to the methods section. Often these are subsection elements.

**Value**

Updated report element.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

addToOverview	<i>Add elements to the "Overview" section of a standard report.</i>
---------------	---

---

**Description**

Add elements to the "Overview" section of a standard report.

**Usage**

```
addToOverview(report, ...)
```

**Arguments**

report	Report element.
...	Elements that will be added to the overview section. Often these are subsection elements.

**Value**

Updated report element.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

addToReferences	<i>Add elements to the "References" subsection in the "Methods &amp; Data" section of a standard report.</i>
-----------------	--

---

**Description**

Add elements to the "References" subsection in the "Methods & Data" section of a standard report.

**Usage**

```
addToReferences(report, ...)
```

**Arguments**

report	Report element.
...	Elements that will be added to the references section. These should be citation elements.

**Value**

Updated report element.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

addToResults	<i>Add elements to the "Results" section of a standard report.</i>
--------------	--

---

**Description**

Add elements to the "Results" section of a standard report.

**Usage**

```
addToResults(report, ...)
```

**Arguments**

report	Report element.
...	Elements that will be added to the results section. Often these are subsection elements.

**Value**

Updated report element.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>



---

addToSummary	<i>Add elements to the "Summary" subsection in the "Overview" section of a standard report.</i>
--------------	---

---

**Description**

Add elements to the "Summary" subsection in the "Overview" section of a standard report.

**Usage**

```
addToSummary(report, ...)
```

**Arguments**

report	Report element.
...	Elements that will be added to the overview section. Often these are paragraph elements.

**Value**

Updated report element.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

asCode	<i>Format text as code.</i>
--------	-----------------------------

---

**Description**

Format text as code.

**Usage**

```
asCode(...)
```

**Arguments**

...	One or more strings that will be concatenated.
-----	--

**Value**

Text formatted as a code.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

asEmph                      *Format text with emphasis (usually resulting in text set in italics).*

---

**Description**

Format text with emphasis (usually resulting in text set in italics).

**Usage**

```
asEmph(...)
```

**Arguments**

...                      One or more strings that will be concatenated.

**Value**

Text with emphasis.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

asFilename                      *Format text as filename.*

---

**Description**

Format text as filename.

**Usage**

```
asFilename(...)
```

**Arguments**

...                      One or more strings that will be concatenated.

**Value**

Text formatted as a filename.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

asLink                      *Format text as a hyperlink.*

---

**Description**

Format text as a hyperlink.

**Usage**

```
asLink(url, ...)
```

**Arguments**

url	URL to be for the link.
...	One or more strings that will be concatenated to form the text of the link.

**Value**

A hyperlink.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

asParameter                *Format text as parameter.*

---

**Description**

Format text as parameter.

**Usage**

```
asParameter(...)
```

**Arguments**

...	One or more strings that will be concatenated.
-----	--

**Value**

Text formatted as a parameter.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

asReference	<i>Reference a citation, figure or table element.</i>
-------------	---

---

**Description**

Reference a citation, figure or table element.

**Usage**

```
asReference(element)
```

**Arguments**

element	Citation, figure or table element.
---------	------------------------------------

**Value**

A reference string for the referenced element that will be resolved when the report is written to file and rendered to HTML.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

asStrong	<i>Format text with strong emphasis (usually resulting in text set in bold).</i>
----------	--

---

**Description**

Format text with strong emphasis (usually resulting in text set in bold).

**Usage**

```
asStrong(...)
```

**Arguments**

...	One or more strings that will be concatenated.
-----	--

**Value**

Text with strong emphasis.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

asSummary	<i>Include a result in text. This is a legacy method and provided only for backwards compatibility.</i>
-----------	---

---

**Description**

Include a result in text. This is a legacy method and provided only for backwards compatibility.

**Usage**

```
asSummary(result)
```

**Arguments**

result	The result element.
--------	---------------------

**Value**

The result element.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

asValue	<i>Format text as value.</i>
---------	------------------------------

---

**Description**

Format text as value.

**Usage**

```
asValue(...)
```

**Arguments**

...	One or more strings that will be concatenated.
-----	--

**Value**

Text formatted as a value.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

DEFAULT.REPORT.FILENAME

*Default filename for reports.*

---

**Description**

Default filename for reports.

**Usage**

DEFAULT.REPORT.FILENAME

**Format**

chr "nozzle"

---

DEFAULT.SIGNIFICANT.ENTITY

*Name of entities that are labeled as signficiant.*

---

**Description**

Name of entities that are labeled as signficiant.

**Usage**

DEFAULT.SIGNIFICANT.ENTITY

**Format**

chr "statistically significant findings"

---

getContactInformationEmail

*Get contact email address for report.*

---

**Description**

Get contact email address for report.

**Usage**

getContactInformationEmail(report)

**Arguments**

report            Report element.

**Value**

Contact email address.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

getContactInformationLabel

*Get label for contact button for report.*

---

**Description**

Get label for contact button for report.

**Usage**

getContactInformationLabel(report)

**Arguments**

report            Report element.

**Value**

Contact email button label.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

getContactInformationMessage

*Get contact email default message for report.*

---

**Description**

Get contact email default message for report.

**Usage**

getContactInformationMessage(report)

**Arguments**

report            Report element.

**Value**

Contact email default message.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

getContactInformationSubject

*Get contact email subject line for report.*

---

**Description**

Get contact email subject line for report.

**Usage**

```
getContactInformationSubject(report)
```

**Arguments**

report            Report element.

**Value**

Contact email subject line.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

getCopyrightOwner

*Get name of the copyright owner for report.*

---

**Description**

Get name of the copyright owner for report.

**Usage**

```
getCopyrightOwner(report)
```

**Arguments**

report            Report element.

**Value**

Name of the copyright owner.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>



---

getCopyrightStatement *Get copyright statement for report. This text is linked to the copyright URL.*

---

**Description**

Get copyright statement for report. This text is linked to the copyright URL.

**Usage**

```
getCopyrightStatement(report)
```

**Arguments**

report            Report element.

**Value**

Text of the c opyright statement.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

getCopyrightUrl            *Get copyright URL for report, which is linked to the copyright statement.*

---

**Description**

Get copyright URL for report, which is linked to the copyright statement.

**Usage**

```
getCopyrightUrl(report)
```

**Arguments**

report            Report element.

**Value**

Copyright URL.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

getCopyrightYear      *Get copyright year report.*

---

**Description**

Get copyright year report.

**Usage**

```
getCopyrightYear(report)
```

**Arguments**

report      Report element.

**Value**

Copyright year.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

getCreatorDate      *Get date when report was created.*

---

**Description**

Get date when report was created.

**Usage**

```
getCreatorDate(report)
```

**Arguments**

report      Report element.

**Value**

Date when report was created or NA.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

getCreatorName	<i>Get name and version of the Nozzle package that was used to create report.</i>
----------------	---

---

**Description**

Get name and version of the Nozzle package that was used to create report.

**Usage**

```
getCreatorName(report)
```

**Arguments**

report            Report element.

**Value**

Name and version of the Nozzle package that created report or NA.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

getCustomPrintCss	<i>Get the path or URL of the CSS file to be used to overwrite the default print (not: screen) style sheet.</i>
-------------------	---

---

**Description**

Get the path or URL of the CSS file to be used to overwrite the default print (not: screen) style sheet.

**Usage**

```
getCustomPrintCss(report)
```

**Arguments**

report            Report element.

**Value**

Path or URL of CSS file. Can be relative or absolute.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

getCustomScreenCss	<i>Get the path or URL of the CSS file to be used to overwrite the default screen (not: print) style sheet.</i>
--------------------	---

---

**Description**

Get the path or URL of the CSS file to be used to overwrite the default screen (not: print) style sheet.

**Usage**

```
getCustomScreenCss(report)
```

**Arguments**

report	Report element.
--------	-----------------

**Value**

Path or URL of CSS file. Can be relative or absolute.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

getExportedElement	<i>Get an exported element from a report. This can be used to generate aggregate reports. This is an experimental feature of Nozzle and may not lead to the expected results.</i>
--------------------	---

---

**Description**

Get an exported element from a report. This can be used to generate aggregate reports. This is an experimental feature of Nozzle and may not lead to the expected results.

**Usage**

```
getExportedElement(report, exportId)
```

**Arguments**

report	The source report.
exportId	The ID of the exported element. getExportedElementIds returns a list of exported element IDs.

**Value**

The exported report element or NULL if the ID does not exist in report.

**Note**

Elements containing references should not be exported since references cannot be resolved in the target report. Relative paths in exported elements may have to be adjusted manually if the target report will be located in a different directory.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

getExportedElementIds *Get the IDs of exported elements from report. This is an experimental feature of Nozzle and may not lead to the expected results.*

---

**Description**

Get the IDs of exported elements from report. This is an experimental feature of Nozzle and may not lead to the expected results.

**Usage**

```
getExportedElementIds(report)
```

**Arguments**

report            The source report.

**Value**

The IDs of exported report elements or NULL.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

getFigureFile            *Get path or URL of image file associated with a figure element.*

---

**Description**

Get path or URL of image file associated with a figure element.

**Usage**

```
getFigureFile(element)
```

**Arguments**

element            Figure element.

**Value**

Path or URL of the image file or NA if element is not a figure.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

getFigureFileHighRes *Get path or URL of high-resolution of vector-based image file associated with a figure element.*

---

**Description**

Get path or URL of high-resolution of vector-based image file associated with a figure element.

**Usage**

```
getFigureFileHighRes(element)
```

**Arguments**

element            Figure element.

**Value**

Path or URL of the image file or NA if element is not a figure.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

getGoogleAnalyticsId *Get Google Analytics tracking ID for report.*

---

**Description**

Get Google Analytics tracking ID for report.

**Usage**

```
getGoogleAnalyticsId(report)
```

**Arguments**

report            Report element.

**Value**

Google Analytics Tracking ID or NA if not set.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

getLogo	<i>Get logo file for one of six positions (three at the top, three at the bottom) in report.</i>
---------	--

---

**Description**

Get logo file for one of six positions (three at the top, three at the bottom) in report.

**Usage**

```
getLogo(report, position)
```

**Arguments**

report	Report element.
position	One of LOGO.TOP.LEFT, LOGO.TOP.CENTER, LOGO.TOP.RIGHT, LOGO.BOTTOM.LEFT, LOGO.BOTTOM.CENTER, LOGO.BOTTOM.RIGHT.

**Value**

Path or URL to the logo file at position.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

getMaintainerAffiliation	<i>Get affiliation of maintainer of report.</i>
--------------------------	---

---

**Description**

Get affiliation of maintainer of report.

**Usage**

```
getMaintainerAffiliation(report)
```

**Arguments**

report	Report element.
--------	-----------------

**Value**

Affiliation of the maintainer.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

`getMaintainerEmail`     *Get email address of maintainer of report.*

---

**Description**

Get email address of maintainer of report.

**Usage**

```
getMaintainerEmail(report)
```

**Arguments**

report             Report element.

**Value**

Email address of the maintainer.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

`getMaintainerName`     *Get name of maintainer of report.*

---

**Description**

Get name of maintainer of report.

**Usage**

```
getMaintainerName(report)
```

**Arguments**

report             Report element.

**Value**

Name of the maintainer.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>



---

getRendererDate	<i>Get date when report was rendered.</i>
-----------------	---

---

**Description**

Get date when report was rendered.

**Usage**

```
getRendererDate(report)
```

**Arguments**

report	Report element.
--------	-----------------

**Value**

Date when report was rendered or NA.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

getRendererName	<i>Get name and version of the Nozzle package that was used to render report.</i>
-----------------	---

---

**Description**

Get name and version of the Nozzle package that was used to render report.

**Usage**

```
getRendererName(report)
```

**Arguments**

report	Report element.
--------	-----------------

**Value**

Name and version of the Nozzle package that rendered report or NA.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

getReportId                    *Get the ID (a UUID) of report.*

---

**Description**

Get the ID (a UUID) of report.

**Usage**

```
getReportId(report)
```

**Arguments**

report                    Report element.

**Value**

ID of report or NA.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

getReportTitle                *Get the title of report.*

---

**Description**

Get the title of report.

**Usage**

```
getReportTitle(report)
```

**Arguments**

report                    Report element.

**Value**

Title of report

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

getSignificantEntity *Get name of entities that are called out as significant, e.g. "gene". This is currently not being used and might become obsolete in future versions of Nozzle.*

---

**Description**

Get name of entities that are called out as significant, e.g. "gene". This is currently not being used and might become obsolete in future versions of Nozzle.

**Usage**

```
getSignificantEntity(report)
```

**Arguments**

report            Report element.

**Value**

Name of entities called out as significant.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

getSignificantResultsCount  
*Get the total number of significant results in report.*

---

**Description**

Get the total number of significant results in report.

**Usage**

```
getSignificantResultsCount(report)
```

**Arguments**

report            The report.

**Value**

Number of significant results.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

getSoftwareName      *Get the name of the software that used Nozzle to generate report.*

---

**Description**

Get the name of the software that used Nozzle to generate report.

**Usage**

```
getSoftwareName(report)
```

**Arguments**

report      Report element.

**Value**

Name of the software that used Nozzle to generate report.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

getSoftwareVersion      *Get the version of the software that used Nozzle to generate report.*

---

**Description**

Get the version of the software that used Nozzle to generate report.

**Usage**

```
getSoftwareVersion(report)
```

**Arguments**

report      Report element.

**Value**

Version of the software that used Nozzle to generate report.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

getSummary	<i>Get the first element of the "Summary" subsection in the "Overview" section in a standard report.</i>
------------	--

---

**Description**

Get the first element of the "Summary" subsection in the "Overview" section in a standard report.

**Usage**

```
getSummary(report)
```

**Arguments**

report            The report.

**Value**

A report element.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

getTableFile	<i>Get path or URL of file associatd with table element.</i>
--------------	--

---

**Description**

Get path or URL of file associatd with table element.

**Usage**

```
getTableFile(element)
```

**Arguments**

element            Table element.

**Value**

Path or URL.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

HTML.FRAGMENT	<i>Output type.</i>
---------------	---------------------

---

**Description**

Output type.

**Usage**

HTML.FRAGMENT

**Format**

chr "html\_fragment"

---

HTML.REPORT	<i>Output type.</i>
-------------	---------------------

---

**Description**

Output type.

**Usage**

HTML.REPORT

**Format**

chr "html\_standalone"

---

IMAGE.TYPE.PDF	<i>Image type.</i>
----------------	--------------------

---

**Description**

Image type.

**Usage**

IMAGE.TYPE.PDF

**Format**

num 2

---

IMAGE . TYPE . RASTER	<i>Image type.</i>
-----------------------	--------------------

---

**Description**

Image type.

**Usage**

IMAGE . TYPE . RASTER

**Format**

num 0

---

IMAGE . TYPE . SVG	<i>Image type.</i>
--------------------	--------------------

---

**Description**

Image type.

**Usage**

IMAGE . TYPE . SVG

**Format**

num 1

---

isFigure	<i>Test if element is a figure element.</i>
----------	---

---

**Description**

Test if element is a figure element.

**Usage**

isFigure(element)

**Arguments**

element	Element to test.
---------	------------------

**Value**

TRUE if the element is a figure, FALSE otherwise.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

isTable                      *Test if element is a table element.*

---

**Description**

Test if element is a table element.

**Usage**

isTable(element)

**Arguments**

element                      Element to test.

**Value**

TRUE if the element is a table, FALSE otherwise.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

LOGO.BOTTOM.CENTER        *Logo position.*

---

**Description**

Logo position.

**Usage**

LOGO.BOTTOM.CENTER

**Format**

num 16

---

LOGO.BOTTOM.LEFT            *Logo position.*

---

**Description**

Logo position.

**Usage**

LOGO.BOTTOM.LEFT

**Format**

num 8



---

LOGO.BOTTOM.RIGHT      *Logo position.*

---

**Description**

Logo position.

**Usage**

LOGO.BOTTOM.RIGHT

**Format**

num 32

---

LOGO.TOP.CENTER      *Logo position.*

---

**Description**

Logo position.

**Usage**

LOGO.TOP.CENTER

**Format**

num 2

---

LOGO.TOP.LEFT      *Logo position.*

---

**Description**

Logo position.

**Usage**

LOGO.TOP.LEFT

**Format**

num 1

---

LOGO.TOP.RIGHT      *Logo position.*

---

**Description**

Logo position.

**Usage**

LOGO.TOP.RIGHT

**Format**

num 4

---

newCitation      *Create a citation element.*

---

**Description**

Create a citation element.

**Usage**

```
newCitation(authors = "", title, publication = "",
            issue = "", number = "", pages = "", year = "",
            url = "")
```

**Arguments**

authors	Names of authors.
title	Title of the document.
publication	Name of the publication where the document appeared.
issue	Issue of the publication.
number	Number of the publication.
pages	Pages of the document in the publication.
year	Year when the document was published.
url	URL of the document.

**Value**

New element.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

newCustomReport	<i>Create a new custom report without pre-defined sections.</i>
-----------------	---

---

**Description**

Create a new custom report without pre-defined sections.

**Usage**

```
newCustomReport(..., version = 0)
```

**Arguments**

...	One or more strings that will be concatenated into the report title.
version	Version number. Not in use.

**Value**

A new report element.

**Author(s)**

Nils Gehlenborg (nils@hms.harvard.edu)

---

newFigure	<i>Create a new list element.</i>
-----------	-----------------------------------

---

**Description**

Create a new list element.

**Usage**

```
newFigure(file, ..., fileHighRes = NA,
          type = IMAGE.TYPE.RASTER, exportId = NULL,
          protection = PROTECTION.PUBLIC)
```

**Arguments**

file	Path or URL to the image file. Paths can be absolute or relative.
...	Strings that will be concatenated to form the figure caption.
fileHighRes	Path or URL to a high-resolution or vector-based version of the image file. Paths can be absolute or relative.
type	Currently only IMAGE.TYPE.RASTER is allowed.
exportId	Unique string to identify this element. Used to retrieve the element using <code>getExportedElement</code> .
protection	Protection level. One of PROTECTION.PUBLIC, PROTECTION.GROUP, PROTECTION.PRIVATE.

**Value**

New element.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

newJournalCitation	<i>Create a citation element that represents a document published in a journal. This is a convenience wrapper for newCitation.</i>
--------------------	--

---

**Description**

Create a citation element that represents a document published in a journal. This is a convenience wrapper for newCitation.

**Usage**

```
newJournalCitation(authors, title, publication, issue,
  number, pages, year, url = "")
```

**Arguments**

authors	Names of authors.
title	Title of the document.
publication	Name of the publication where the document appeared.
issue	Issue of the publication.
number	Number of the publication.
pages	Pages of the document in the publication.
year	Year when the document was published.
url	URL of the document.

**Value**

New element.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

newList                      *Create a new list element.*

---

**Description**

Create a new list element.

**Usage**

```
newList(..., isNumbered = FALSE, exportId = NULL,
         protection = PROTECTION.PUBLIC)
```

**Arguments**

...	Elements of type paragraph, list or result that will form the items in the list.
isNumbered	If set to FALSE, the list will be unordered with bullet points. If set to TRUE, the list will be numbered with arabic numerals.
exportId	Unique string to identify this element. Used to retrieve the element using <code>getExportedElement</code> .
protection	Protection level. One of PROTECTION.PUBLIC, PROTECTION.GROUP or PROTECTION.PRIVATE.

**Value**

New element.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

newParagraph                      *Create a new paragraph element.*

---

**Description**

Create a new paragraph element.

**Usage**

```
newParagraph(..., exportId = NULL,
             protection = PROTECTION.PUBLIC)
```

**Arguments**

...	Strings that will be concatenated to form the text of the paragraph.
exportId	Unique string to identify this element. Used to retrieve the element using <code>getExportedElement</code> .
protection	Protection level. One of PROTECTION.PUBLIC, PROTECTION.GROUP, PROTECTION.PRIVATE.

**Value**

New element.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

newParameterList	<i>Create a new parameter list element. A parameter list is an unnumbered list of the form param_1 = value_1, ..., param_n = value_n where param_i is formatted as a parameter and value_i is formatted as a value.</i>
------------------	---

---

**Description**

Create a new parameter list element. A parameter list is an unnumbered list of the form param\_1 = value\_1, ..., param\_n = value\_n where param\_i is formatted as a parameter and value\_i is formatted as a value.

**Usage**

```
newParameterList(..., separator = " = ", exportId = NULL,
  protection = PROTECTION.PUBLIC)
```

**Arguments**

...	2n strings that will be concatenated to form the parameter-value pairs. Strings at positions 1, ..., 2n - 1 will be treated as parameters 1 through n and strings at positions 2, ..., 2n will be treated as values 1 through n.
separator	String to be used to separate parameters and values. Whitespace characters need to be supplied if required.
exportId	Unique string to identify this element. Used to retrieve the element using getExportedElement.
protection	Protection level. One of PROTECTION.PUBLIC, PROTECTION.GROUP, PROTECTION.PRIVATE.

**Value**

New element.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

newReport	<i>Create a new report with pre-defined sections Overview/Introduction, Overview/Summary, Results, Methods &amp; Data/Input, Methods &amp; Data/References and Meta Data.</i>
-----------	---

---

**Description**

Create a new report with pre-defined sections Overview/Introduction, Overview/Summary, Results, Methods & Data/Input, Methods & Data/References and Meta Data.

**Usage**

```
newReport(..., version = 0)
```

**Arguments**

...	One or more strings that will be concatenated into the report title.
version	Version number. Not in use.

**Value**

A new report element.

**Author(s)**

Nils Gehlenborg (nils@hms.harvard.edu)

---

newResult	<i>Create a new result element.</i>
-----------	-------------------------------------

---

**Description**

Create a new result element.

**Usage**

```
newResult(..., isSignificant = FALSE,
           protection = PROTECTION.PUBLIC)
```

**Arguments**

...	One or more strings that will be concatenated to form the text associated with the result (often just a scalar or single string).
isSignificant	If TRUE, the result will be declared significant.
protection	Protection level. One of PROTECTION.PUBLIC, PROTECTION.GROUP, PROTECTION.PRIVATE.

**Value**

New element.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

newSection *Create a new section element.*

---

**Description**

Create a new section element.

**Usage**

```
newSection(..., class = "", exportId = NULL,
           protection = PROTECTION.PUBLIC)
```

**Arguments**

...	Strings that will be concatenated to form the section title.
class	If set to SECTION.CLASS.RESULTS, results can be reported in this section. If set to SECTION.CLASS.META the section will be a meta data section.
exportId	Unique string to identify this element. Used to retrieve the element using getExportedElement.
protection	Protection level. One of PROTECTION.PUBLIC, PROTECTION.GROUP, PROTECTION.PRIVATE.

**Value**

New element.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

newSubSection *Create a new subsection element.*

---

**Description**

Create a new subsection element.

**Usage**

```
newSubSection(..., exportId = NULL,
              protection = PROTECTION.PUBLIC)
```

**Arguments**

...	Strings that will be concatenated to form the subsection title.
exportId	Unique string to identify this element. Used to retrieve the element using getExportedElement.
protection	Protection level. One of PROTECTION.PUBLIC, PROTECTION.GROUP, PROTECTION.PRIVATE.



**Value**

New element.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

newSubSubSection      *Create a new subsubsection element.*

---

**Description**

Create a new subsubsection element.

**Usage**

```
newSubSubSection(..., exportId = NULL,
  protection = PROTECTION.PUBLIC)
```

**Arguments**

...	Strings that will be concatenated to form the subsubsection title.
exportId	Unique string to identify this element. Used to retrieve the element using <code>getExportedElement</code> .
protection	Protection level. One of <code>PROTECTION.PUBLIC</code> , <code>PROTECTION.GROUP</code> , <code>PROTECTION.PRIVATE</code> .

**Value**

New element.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

newTable      *Create new table element.*

---

**Description**

Create new table element.

**Usage**

```
newTable(table, ..., file = NA,
  significantDigits = TABLE.SIGNIFICANT.DIGITS,
  exportId = NULL, protection = PROTECTION.PUBLIC)
```

**Arguments**

table	A matrix or data frame containing the table data. Column names will be extracted and used as column headers.
...	Strings that will be concatenated to form the table caption.
file	Path or URL to a file containing the full table. It is recommend to only show a relevant subset of all results in the report itself to increase readability.
significantDigits	Number of significant digits used to trim all numeric columns. The default is TABLE.SIGNIFICANT.DIGITS.
exportId	Unique string to identify this element. Used to retrieve the element using getExportedElement.
protection	Procection level. One of PROTECTION.PUBLIC, PROTECTION.GROUP, PROTECTION.PRIVATE.

**Value**

New element.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

newWebCitation      *Create a citation element that represents a document published online. This is a convenience wrapper for newCitation.*

---

**Description**

Create a citation element that represents a document published online. This is a convenience wrapper for newCitation.

**Usage**

```
newWebCitation(authors, title, url)
```

**Arguments**

authors	Names of authors.
title	Title of the document.
url	URL of the document.

**Value**

New element.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

PROTECTION.GROUP      *Group visibility.*

---

**Description**

Group visibility.

**Usage**

PROTECTION.GROUP

**Format**

num 5

---

PROTECTION.PRIVATE      *Private visibility.*

---

**Description**

Private visibility.

**Usage**

PROTECTION.PRIVATE

**Format**

num 10

---

PROTECTION.PUBLIC      *Public visibility.*

---

**Description**

Public visibility.

**Usage**

PROTECTION.PUBLIC

**Format**

num 0

PROTECTION.TCGA      *Group visibility.*

---

**Description**

Group visibility.

**Usage**

PROTECTION.TCGA

**Format**

num 5

---

RDATA.REPORT      *Output type.*

---

**Description**

Output type.

**Usage**

RDATA.REPORT

**Format**

chr "rdata"

---

SECTION.CLASS.META      *Section class.*

---

**Description**

Section class.

**Usage**

SECTION.CLASS.META

**Format**

chr "meta"

---

SECTION.CLASS.RESULTS *Section class.*

---

**Description**

Section class.

**Usage**

SECTION.CLASS.RESULTS

**Format**

chr "results"

---

setContactInformation *Set contact information for report. This is used to create a "contact" button in the top right corner of the report, e.g. to collect feedback about the report.*

---

**Description**

Set contact information for report. This is used to create a "contact" button in the top right corner of the report, e.g. to collect feedback about the report.

**Usage**

```
setContactInformation(report, email, subject, message,
  label = NA)
```

**Arguments**

report	Report element.
email	Email address of the recipient of contact emails.
subject	Subject of the email to be sent.
message	Message used to pre-populate the email body.
label	Label for the button, e.g. "Contact Us".

**Value**

Updated report element.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

setCopyright	<i>Set copyright message for report.</i>
--------------	--

---

**Description**

Set copyright message for report.

**Usage**

```
setCopyright(report, owner, year, statement = NA,
             url = NA)
```

**Arguments**

report	Report element.
owner	Copyright owner, e.g. "The President and Fellows of Harvard College".
year	Copyright year, e.g. "2012" or "2011-2013".
statement	Copyright statement, e.g. "All rights reserved.".
url	A URL that will be linked to the copyright owner.

**Value**

Updated report element.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

setCustomPrintCss	<i>Set the path or URL of the CSS file to be used to overwrite the default print (not: screen) style sheet. Can be relative or absolute.</i>
-------------------	--

---

**Description**

Set the path or URL of the CSS file to be used to overwrite the default print (not: screen) style sheet. Can be relative or absolute.

**Usage**

```
setCustomPrintCss(report, cssFile)
```

**Arguments**

report	Report element.
cssFile	URL or a relative or absolute path to a CSS file.

**Value**

Updated report element.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

setCustomScreenCss	<i>Set the path or URL of the CSS file to be used to overwrite the default screen (not: print) style sheet. Can be relative or absolute.</i>
--------------------	--

---

**Description**

Set the path or URL of the CSS file to be used to overwrite the default screen (not: print) style sheet. Can be relative or absolute.

**Usage**

```
setCustomScreenCss(report, cssFile)
```

**Arguments**

report	Report element.
cssFile	URL or a relative or absolute path to a CSS file.

**Value**

Updated report element.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

setFigureFile	<i>Set path or URL of image file associated with a figure element. Paths can be relative or absolute.</i>
---------------	---

---

**Description**

Set path or URL of image file associated with a figure element. Paths can be relative or absolute.

**Usage**

```
setFigureFile(element, file)
```

**Arguments**

element	A figure element.
file	Path or URL of the image file.

**Value**

Updated figure element or NA if element is not a figure.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

setFigureFileHighRes *Set path or URL of high-resolution or vector-based image file associated with a figure element. Paths can be relative or absolute.*

---

**Description**

Set path or URL of high-resolution or vector-based image file associated with a figure element. Paths can be relative or absolute.

**Usage**

```
setFigureFileHighRes(element, file)
```

**Arguments**

element	A figure element.
file	Path or URL of the image file.

**Value**

Updated figure element or NA if element is not a figure.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

setGoogleAnalyticsId *Set the Google Analytics tracking ID to be embedded in this report ("web property id", usually starts with "UA-").*

---

**Description**

Set the Google Analytics tracking ID to be embedded in this report ("web property id", usually starts with "UA-").

**Usage**

```
setGoogleAnalyticsId(report, id)
```

**Arguments**

report	Report element.
id	Web property ID for the Google Analytics tracking account.

**Value**

Updated report element.



**Note**

A (free) Google Analytics account is required.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

**References**

<http://www.google.com/analytics>

---

setLogo	<i>Set a logo file for one of six positions (three at the top, three at the bottom) in report, e.g. an institute logo.</i>
---------	--

---

**Description**

Set a logo file for one of six positions (three at the top, three at the bottom) in report, e.g. an institute logo.

**Usage**

```
setLogo(report, filename, position)
```

**Arguments**

report	Report element.
filename	Path or URL to the logo file (relative) to the final location of the report HTML file.
position	One of LOGO.TOP.LEFT, LOGO.TOP.CENTER, LOGO.TOP.RIGHT, LOGO.BOTTOM.LEFT, LOGO.BOTTOM.CENTER, LOGO.BOTTOM.RIGHT.

**Value**

Updated report element.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

`setMaintainerAffiliation`*Set affiliation of maintainer of report.*

---

**Description**

Set affiliation of maintainer of report.

**Usage**

```
setMaintainerAffiliation(report, ...)
```

**Arguments**

<code>report</code>	Report element.
<code>...</code>	One or more strings that will be concatenated to form the affiliation of the maintainer.

**Value**

Updated report element.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

`setMaintainerEmail`*Set email address of maintainer of report.*

---

**Description**

Set email address of maintainer of report.

**Usage**

```
setMaintainerEmail(report, ...)
```

**Arguments**

<code>report</code>	Report element.
<code>...</code>	One or more strings that will be concatenated to form the email address of the maintainer.

**Value**

Updated report element.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

setMaintainerName	<i>Set name of maintainer of report.</i>
-------------------	--

---

**Description**

Set name of maintainer of report.

**Usage**

```
setMaintainerName(report, ...)
```

**Arguments**

report	Report element.
...	One or more strings that will be concatenated to form the name of the maintainer.

**Value**

Updated report element.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

setNextReport	<i>Set the URL and title of the "next" report after report. This will be accessible through the utility menu.</i>
---------------	---

---

**Description**

Set the URL and title of the "next" report after report. This will be accessible through the utility menu.

**Usage**

```
setNextReport(report, url, ...)
```

**Arguments**

report	Report object.
url	URL of the next report.
...	One or more strings that will be concatenated to form the title of the next report.

**Value**

Updated report element.

**Author(s)**

nils

---

setParentReport	<i>Set the URL and title of the "parent" report above report. This will be accessible through the utility menu.</i>
-----------------	---

---

**Description**

Set the URL and title of the "parent" report above report. This will be accessible through the utility menu.

**Usage**

```
setParentReport(report, url, ...)
```

**Arguments**

report	Report object.
url	URL of the next report.
...	One or more strings that will be concatenated to form the title of the parent report.

**Value**

Updated report element.

**Author(s)**

nils

---

setPreviousReport	<i>Set the URL and title of the "previous" report before report. This will be accessible through the utility menu.</i>
-------------------	--

---

**Description**

Set the URL and title of the "previous" report before report. This will be accessible through the utility menu.

**Usage**

```
setPreviousReport(report, url, ...)
```

**Arguments**

report	Report object.
url	URL of the next report.
...	One or more strings that will be concatenated to form the title of the previous report.

**Value**

Updated report element.

**Author(s)**

nils

---

setReportTitle	<i>Set the title of report.</i>
----------------	---------------------------------

---

**Description**

Set the title of report.

**Usage**

```
setReportTitle(report, ...)
```

**Arguments**

report	Report element.
...	One or more strings that will be concatenated to form the title of the report.

**Value**

Updated report element or NA if report has no title element.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

setSignificantEntity	<i>Set name of entities that are called out as significant, e.g. "gene". This is currently not being used and might become obsolete in future versions of Nozzle.</i>
----------------------	---

---

**Description**

Set name of entities that are called out as significant, e.g. "gene". This is currently not being used and might become obsolete in future versions of Nozzle.

**Usage**

```
setSignificantEntity(report, ...)
```

**Arguments**

report	Report element.
...	List of strings that will be concatenated to form the name of the entities.

**Value**

Updated report element.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

setSoftwareName	<i>Set the name of the software that used Nozzle to generate report, e.g. "My Report Generator Script".</i>
-----------------	---

---

**Description**

Set the name of the software that used Nozzle to generate report, e.g. "My Report Generator Script".

**Usage**

```
setSoftwareName(report, ...)
```

**Arguments**

report	Report element.
...	One or more strings that will be concatenated to form the name of the software.

**Value**

Updated report element.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

setSoftwareVersion	<i>Set the name of the software that used Nozzle to generate report, e.g. "Version 1.2".</i>
--------------------	--

---

**Description**

Set the name of the software that used Nozzle to generate report, e.g. "Version 1.2".

**Usage**

```
setSoftwareVersion(report, ...)
```

**Arguments**

report	Report element.
...	One or more strings that will be concatenated to form the version of the software.

**Value**

Updated report element.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

setTableFile	<i>Set path or URL of file associatd with table element.</i>
--------------	--

---

**Description**

Set path or URL of file associatd with table element.

**Usage**

```
setTableFile(element, file)
```

**Arguments**

element	Table element.
file	Path or URL to file.

**Value**

Updated element.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

TABLE . SIGNIFICANT . DIGITS	<i>Default number of significant digits to be used to trim numeric columns in tables.</i>
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**Description**

Default number of significant digits to be used to trim numeric columns in tables.

**Usage**

```
TABLE . SIGNIFICANT . DIGITS
```

**Format**

num 2

---

writeReport	<i>Write report to file.</i>
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### Description

Write report to file.

### Usage

```
writeReport(report, filename = DEFAULT.REPORT.FILENAME,
  debug = FALSE, output = c(HTML.REPORT, RDATA.REPORT),
  credits = TRUE, level = PROTECTION.PUBLIC,
  debugCss = NA, debugJavaScript = NA)
```

### Arguments

report	The report to be written.
filename	Name of the output file without file extension.
debug	If TRUE, external CSS (debugCss) and JavaScript (debugJavaScript) can be supplied.
output	A list of output formats. Any combination of HTML.REPORT and RDATA.REPORT is allowed.
credits	If TRUE, a note and a link will be included at the bottom of the report to indicate that it was created with Nozzle.
level	The protection level of the report. If set to PROTECTION.PUBLIC only elements with protection level PROTECTION.PUBLIC (default) will be included in the report. If set to PROTECTION.GROUP, then all elements with protection level PROTECTION.PUBLIC and PROTECTION.GROUP will be included. If set to PROTECTION.PRIVATE all elements will be included.
debugCss	A path or URL to a CSS file that should be used instead of the built-in CSS. Only used if debug is TRUE.
debugJavaScript	A path or URL to a JavaScript file that should be used instead of the built-in JavaScript. Only used if debug is TRUE.

### Author(s)

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