Package ‘Nozzle.R1’

October 12, 2022

**Type**  Package

**Title**  Nozzle Reports

**Version**  1.1-1.1

**Date**  2012-05-15

**Author**  Nils Gehlenborg <nils@hms.harvard.edu>

**Maintainer**  Nils Gehlenborg <nils@hms.harvard.edu>

**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.

**License**  LGPL-2

**URL**  http://github.com/parklab/nozzle,
         http://gdac.broadinstitute.org/nozzle

**BugReports**  http://www.github.com/parklab/nozzle/issues

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**LazyLoad**  yes

**Collate**  ‘nozzle.R’

**NeedsCompilation**  no

**Repository**  CRAN

**Date/Publication**  2022-06-23 07:18:39 UTC
R topics documented:

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Description

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

Details

- Package: Nozzle.R1
- Type: Package
- Version: 1.1-0
- Date: 2013-04-16
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 When backwards-compatibility of the API can no longer maintained the package name will change to "Nozzle.R2".

Author(s)

Nils Gehlenborg <nils@hms.harvard.edu>

References


---

**addTo**

Add child elements to a parent element.

**Description**

Add child elements to a parent element.

**Usage**

```r
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>
addToIntroduction

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

Value

Updated report element.

Author(s)

Nils Gehlenborg <nils@hms.harvard.edu>

addToMeta

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

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 ele-
ments.

Value

Updated report element.

Author(s)

Nils Gehlenborg <nils@hms.harvard.edu>

addToMethods

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

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 references section. These may be any ele-
ments.

Value

Updated report element.

Author(s)

Nils Gehlenborg <nils@hms.harvard.edu>
addToOverview

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>

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

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

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

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

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

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  Format text as code.

Description
Format text as code.

Usage
asCode(...)  

Arguments
...  One or more strings that will be concatenated.
**asEmph**

**Value**
Text formatted as a code.

**Author(s)**
Nils Gehlenborg <nils@hms.harvard.edu>

---

<table>
<thead>
<tr>
<th>asEmph</th>
<th>Format text with emphasis (usually resulting in text set in italics).</th>
</tr>
</thead>
</table>

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

**Usage**

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

**Arguments**

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

**Value**
Text with emphasis.

**Author(s)**
Nils Gehlenborg <nils@hms.harvard.edu>

---

<table>
<thead>
<tr>
<th>asFilename</th>
<th>Format text as filename.</th>
</tr>
</thead>
</table>

**Description**
Format text as filename.

**Usage**

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

**Arguments**

```r
... 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.
```
asReference

Value
Text formatted as a parameter.

Author(s)
Nils Gehlenborg <nils@hms.harvard.edu>

asReference (element)

Arguments

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

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

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

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

Format text as value.

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.DOI.RESOLVER**  
*Default DOI resolver URL.*

**Description**

Default DOI resolver URL.

**Usage**

DEFAULT.DOI.RESOLVER

**Format**

`chr "http://dx.doi.org"`

---

**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 significant.

Description

Name of entities that are labeled as significant.

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**

```python
getContactInformationLabel(report)
```

**Arguments**


**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**

```python
getContactInformationMessage(report)
```

**Arguments**


**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 copyright 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

---

**getCreatorName**

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

---

**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

---

**getCustomPrintCss**

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

---

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

**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>

---

**getDoi**  

**Description**

**Usage**
```
getDoi(report)
```

**Arguments**
- **report**  
  Report element.

**Value**
Document object identifier (DOI) for report.

**Author(s)**
Nils Gehlenborg <nils@hms.harvard.edu>
**getDoiCreator**

Get the DOI creator for report.

**Description**
Get the DOI creator for report.

**Usage**
```
getDoiCreator(report)
```

**Arguments**
- `report` Report element.

**Value**
Creator associated with the DOI of the report `report`.

**Author(s)**
Nils Gehlenborg <nils@hms.harvard.edu>

---

**getDoiPublisher**

Get the DOI publisher for report.

**Description**
Get the DOI publisher for report.

**Usage**
```
getDoiPublisher(report)
```

**Arguments**
- `report` Report element.

**Value**
Publisher associated with the DOI of the report `report`.

**Author(s)**
Nils Gehlenborg <nils@hms.harvard.edu>
getDoiResolver

Get the DOI resolver URL (e.g. http://dx.doi.org) for report.

Description
Get the DOI resolver URL (e.g. http://dx.doi.org) for report.

Usage
getDoiResolver(report)

Arguments
report Report element.

Value
Document object identifier (DOI) resolver URL for report.

Author(s)
Nils Gehlenborg <nils@hms.harvard.edu>

getDoiTitle

Get the DOI title for report.

Description
Get the DOI title for report.

Usage
gDOIteTitle(report)

Arguments
report Report element.

Value
Title associated with the DOI of the report report.

Author(s)
Nils Gehlenborg <nils@hms.harvard.edu>
**getDoiVersion**

Get the DOI version for report.

**Usage**

getDoiVersion(report)

**Arguments**

report Report element.

**Value**

Version associated with the DOI of the report report.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

**getDoiYear**

Get the DOI year for report.

**Usage**

getDoiYear(report)

**Arguments**

report Report element.

**Value**

Publication year associated with the DOI of the report report.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>
**getExportedElement**  
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.

**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**

```plaintext
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**

```plaintext
getExportedElementIds(report)
```
getFigureFile

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

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

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

Usage
getLogo(report, position)

Arguments
- 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>

g MaintainerAffiliation
Get affiliation of maintainer of report.

Description
Get affiliation of maintainer of report.

Usage
g MaintainerAffiliation(report)

Arguments

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

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

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>

getReportSubTitle  

Get the subtitle of report.

**Description**
Get the subtitle of report.

**Usage**
`getReportSubTitle(report)`

**Arguments**
- `report`  Report element.

**Value**
SubTitle of report

**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**

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

**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

Get path or URL of file associated with table element.

Description
Get path or URL of file associated with table element.

Usage
getTableFile(element)

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>element</td>
<td>Table element.</td>
</tr>
</tbody>
</table>

Value
Path or URL.

Author(s)
Nils Gehlenborg <nils@hms.harvard.edu>

HTML.FRAGMENT

Output type.

Description
Output type.

Usage

HTML.FRAGMENT

Format

chr "html_fragment"
<table>
<thead>
<tr>
<th>Output type.</th>
<th>Description</th>
<th>Usage</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>HTML.REPORT</td>
<td>Output type.</td>
<td>HTML.REPORT</td>
<td>chr &quot;html_standalone&quot;</td>
</tr>
<tr>
<td>IMAGE.TYPE.PDF</td>
<td>Image type.</td>
<td>IMAGE.TYPE.PDF</td>
<td>num 2</td>
</tr>
<tr>
<td>IMAGE.TYPE.RASTER</td>
<td>Image type.</td>
<td>IMAGE.TYPE.RASTER</td>
<td>num 0</td>
</tr>
</tbody>
</table>
isFigure

Description

Image type.

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

```plaintext
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

```plaintext
LOGO.BOTTOM.CENTER
```

## Format

```plaintext
num 16
```
<table>
<thead>
<tr>
<th>Logo Position</th>
<th>Description</th>
<th>Usage</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>logo.top.center</td>
<td>Logo position.</td>
<td>logo.top.center</td>
<td>num 2</td>
</tr>
<tr>
<td>logo.bottom.left</td>
<td>Logo position.</td>
<td>logo.bottom.left</td>
<td>num 8</td>
</tr>
<tr>
<td>logo.bottom.right</td>
<td>Logo position.</td>
<td>logo.bottom.right</td>
<td>num 32</td>
</tr>
</tbody>
</table>
**Description**

Logo position.

**Usage**

`LOGO.TOP.LEFT`

**Format**

num 1

---

**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 = '')`
newCustomReport

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  
*Create a new custom report without pre-defined sections.*

---

Description

Create a new custom report without pre-defined sections.

Usage

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

Arguments

- `...`: One or more strings that will be concatenated into the report title.

Value

- A new report element.

Author(s)

- Nils Gehlenborg (<nils@hms.harvard.edu>)
newFigure

Create a new list element.

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 getExportedElement.
- **protection**: Protection level. One of PROTECTION.PUBLIC, PROTECTION.GROUP, PROTECTION.PRIVATE.

Value

New element.

Author(s)

Nils Gehlenborg <nils@hms.harvard.edu>

newHtml

Create a new freeform HTML element. THIS MUST BE USED WITH EXTRAORDINARY CARE!

Description

Create a new freeform HTML element. THIS MUST BE USED WITH EXTRAORDINARY CARE!

Usage

newHtml(..., style = NULL, exportId = NULL,  
        protection = PROTECTION.PUBLIC)
newJournalCitation

Arguments

... Strings that will be concatenated to form the HTML content that will be wrapped into a div element.
style CSS to be applied to the div element.
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>

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

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.
pub\nllication 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.
newList

Description
Create a new list element.

Usage
```r
c 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 `getExportedElement`.
- `protection` Proection 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
```r
c newParagraph(..., exportId = NULL, 
              protection = PROTECTION.PUBLIC)
```
newParameterList

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 getExportedElement.
protection Protection level. One of PROTECTION.PUBLIC, PROTECTION.GROUP, PROTECTION.PRIVATE.

Value

New element.

Author(s)

Nils Gehlenborg <nils@hms.harvard.edu>

newParameterList

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.

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.
newReport

Author(s)
Nils Gehlenborg <nils@hms.harvard.edu>

newReport

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

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

Create a new result element.

Description
Create a new result element.

Usage
newResult(..., isSignificant = FALSE,
protection = PROTECTION_PUBLIC)
newSection

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 getExportedElement.
protection Protection level. One of PROTECTION.PUBLIC, PROTECTION.GROUP, PROTECTION.PRIVATE.
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 Protection level. One of PROTECTION.PUBLIC, PROTECTION.GROUP, PROTECTION.PRIVATE.

Value

New element.

Author(s)

Nils Gehlenborg <nils@hms.harvard.edu>
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>

Group visibility.

Usage

PROTECTION.GROUP

Format

num 5
PROTECTION.PRIVATE

**Description**
Private visibility.

**Usage**
PROTECTION.PRIVATE

**Format**
num 10

---

PROTECTION.PUBLIC

**Description**
Public visibility.

**Usage**
PROTECTION.PUBLIC

**Format**
num 0

---

PROTECTION.TCGA

**Description**
Group visibility.

**Usage**
PROTECTION.TCGA

**Format**
num 5
<table>
<thead>
<tr>
<th>Description</th>
<th>Output type.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Usage</td>
<td>RDATA.REPORT</td>
</tr>
<tr>
<td>Format</td>
<td>chr &quot;rdata&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>Section class.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Usage</td>
<td>SECTION.CLASS.META</td>
</tr>
<tr>
<td>Format</td>
<td>chr &quot;meta&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>Section class.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Usage</td>
<td>SECTION.CLASS.RESULTS</td>
</tr>
<tr>
<td>Format</td>
<td>chr &quot;results&quot;</td>
</tr>
</tbody>
</table>
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**

- `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

Set copyright message for report.

**Description**

Set copyright message for report.

**Usage**

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

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>

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

```javascript
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

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.

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

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>report</td>
<td>Report element.</td>
</tr>
<tr>
<td>cssFile</td>
<td>URL or a relative or absolute path to a CSS file.</td>
</tr>
</tbody>
</table>

Value

Updated report element.

Author(s)

Nils Gehlenborg <nils@hms.harvard.edu>

setDoi

Set the DOI (document object identifier, http://www.doi.org) for report. A warning will be emitted if the report has been assigned a DOI before.

Description

Set the DOI (document object identifier, http://www.doi.org) for report. A warning will be emitted if the report has been assigned a DOI before.

Usage

setDoi(report, doi)

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>report</td>
<td>Report element.</td>
</tr>
<tr>
<td>doi</td>
<td>The document object identifier.</td>
</tr>
</tbody>
</table>
setDoiCreator

**Value**

Updated report element.

**Note**

A document object identifier must have been created before this is called.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

**References**

http://www.doi.org

---

**setDoiCreator**  
Set the DOI meta data creator for report.

**Description**

Set the DOI meta data creator for report.

**Usage**

```javascript
setDoiCreator(report, creator)
```

**Arguments**

- `report`  
  Report element.
- `creator`  
  Name of the report creator/author.

**Value**

Updated report element.

**Note**

This should match the meta data stored for the DOI.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>
setDoiPublisher

*Set the DOI meta data publisher for report.*

**Description**

Set the DOI meta data publisher for report.

**Usage**

`setDoiPublisher(report, publisher)`

**Arguments**

- `report` Report element.
- `publisher` Publisher of the report.

**Value**

Updated report element.

**Note**

This should match the meta data stored for the DOI.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

setDoiResolver

*Set the DOI resolver URL (e.g. http://dx.doi.org) for report. The URL must not end with a slash!*

**Description**

Set the DOI resolver URL (e.g. http://dx.doi.org) for report. The URL must not end with a slash!

**Usage**

`setDoiResolver(report, url)`

**Arguments**

- `report` Report element.
- `url` The resolver URL (without a trailing slash). The default is "http://dx.doi.org".
setDoiTitle

Value

Updated report element.

Author(s)

Nils Gehlenborg <nils@hms.harvard.edu>

Description

Set the DOI meta data title for report.

Usage

setDoiTitle(report, title)

Arguments

report Report element.
title Title of the report.

Value

Updated report element.

Note

This should match the meta data stored for the DOI.

Author(s)

Nils Gehlenborg <nils@hms.harvard.edu>
**setDoiVersion**

*Set the DOI meta data version for report.*

**Description**

Set the DOI meta data version for report.

**Usage**

`setDoiVersion(report, version)`

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>report</td>
<td>Report element.</td>
</tr>
<tr>
<td>version</td>
<td>Version of the report.</td>
</tr>
</tbody>
</table>

**Value**

Updated report element.

**Note**

This should match the meta data stored for the DOI.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

**setDoiYear**

*Set the DOI meta data year for report.*

**Description**

Set the DOI meta data year for report.

**Usage**

`setDoiYear(report, year)`

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>report</td>
<td>Report element.</td>
</tr>
<tr>
<td>year</td>
<td>Publication year of the report.</td>
</tr>
</tbody>
</table>
**setFigureFile**

**Value**

Updated report element.

**Note**

This should match the meta data stored for the DOI.

**Author(s)**

Nils Gehlenborg <nils@hms.harvard.edu>

---

**Description**

Set path or URL of image file associated with a figure element. Paths can 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 is `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.
setLogo  

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**

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

---

**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**

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

**Arguments**

- `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
- ...: One or more strings that will be concatenated to form the affiliation of the main- tainer.

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
- ...: One or more strings that will be concatenated to form the email address of the main- tainer.

Value
Updated report element.
setMaintainerName

Author(s)
Nils Gehlenborg <nils@hms.harvard.edu>

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

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

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

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

Description

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

Usage

```ruby
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

setReportSubTitle

Set the subtitle of report.

Description

Set the subtitle of report.

Usage

```ruby
setReportSubTitle(report, ...)
```

Arguments

- `report` (Report element)
- `...` (One or more strings that will be concatenated to form the subtitle of the report)
Value

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

Author(s)

Nils Gehlenborg <nils@hms.harvard.edu>

---

setReportTitle

*Set the title of report.*

---

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

*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.*

---

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

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

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

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
Set path or URL of file associated with table element.

Description
Set path or URL of file associated 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

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

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

Usage
TABLE.SIGNIFICANT.DIGITS

Format

num 2

writeReport

Write report to file.

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

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>report</td>
<td>The report to be written.</td>
</tr>
<tr>
<td>filename</td>
<td>Name of the output file without file extension.</td>
</tr>
<tr>
<td>debug</td>
<td>If TRUE, external CSS (debugCss) and JavaScript (debugJavaScript) can be supplied.</td>
</tr>
<tr>
<td>output</td>
<td>A list of output formats. Any combination of HTML.REPORT and RDATA.REPORT is allowed.</td>
</tr>
<tr>
<td>credits</td>
<td>If TRUE, a note and a link will be included at the bottom of the report to indicate that it was created with Nozzle.</td>
</tr>
</tbody>
</table>
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)

Nils Gehlenborg <nils@hms.harvard.edu>
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