

Package: Nozzle.R1 (via r-universe)

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Type Package

Title Nozzle Reports

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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.

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'

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

RemoteUrl <https://github.com/parklab/nozzle>

RemoteRef HEAD

RemoteSha d77550b1474ba80ac353fbc215d606095421ee65

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Index**Description**

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

Details

| | |
|-----------|-------------|
| Package: | Nozzle.R1 |
| Type: | Package |
| Version: | 1.4-0 |
| Date: | 2014-07-24 |
| 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>

| | |
|------------------|--|
| addRelatedReport | <i>Add the URL, title, and significance status of a related report, e.g. one summarizing the same type of analysis but on a different input set.</i> |
|------------------|--|

Description

Add the URL, title, and significance status of a related report, e.g. one summarizing the same type of analysis but on a different input set.

Usage

```
addRelatedReport(report, name, url,  
                 isSignificant = FALSE)
```

Arguments

| | |
|---------------|---|
| report | Report object. |
| name | Name of the related report. |
| url | URL of the related report (may be relative). |
| isSignificant | Flag indicating whether the related report contains significant findings. |

Value

Updated report element.

Author(s)

nils

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>

| | |
|-------------------------|---|
| <code>addToInput</code> | <i>Add elements to the "Input" subsection in the "Methods & 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

| | |
|---------------------|---|
| <code>report</code> | Report element. |
| <code>...</code> | 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>

| | |
|--------------------------------|--|
| <code>addToIntroduction</code> | <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

| | |
|---------------------|--|
| <code>report</code> | Report element. |
| <code>...</code> | 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

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 elements.

Value

Updated report element.

Author(s)

Nils Gehlenborg <nils@hms.harvard.edu>

addToMethods

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

Description

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

Usage

`addToMethods(report, ...)`

Arguments

| | |
|---------------------|--|
| <code>report</code> | Report element. |
| <code>...</code> | 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`

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

Description

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

Usage

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

Arguments

| | |
|---------------------|---|
| <code>report</code> | Report element. |
| <code>...</code> | 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>

| | |
|------------------------------|--|
| <code>addToReferences</code> | <i>Add elements to the "References" subsection in the "Methods & 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

| | |
|---------------------|---|
| <code>report</code> | Report element. |
| <code>...</code> | 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>

| | |
|---------------------------|--|
| <code>addToResults</code> | <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

| | |
|---------------------|--|
| <code>report</code> | Report element. |
| <code>...</code> | 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

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

| | |
|---------------------|--|
| <code>report</code> | Report element. |
| <code>...</code> | 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

| | |
|------------------|--|
| <code>...</code> | 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

Reference a citation, figure or table element.

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

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

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"
```

getCollectionDate

Get the collection date of report. The collection date is the date when the collection that this report is part of was created.

Description

Get the collection date of report. The collection date is the date when the collection that this report is part of was created.

Usage

```
getCollectionDate(report)
```

Arguments

report Report element.

Value

Collection date of report (a string)

Author(s)

Nils Gehlenborg <nils@hms.harvard.edu>

`getCollectionVersion` *Get the collection version of report. The collection version is the version string of the collection that this report is part of.*

Description

Get the collection version of report. The collection version is the version string of the collection that this report is part of.

Usage

```
getCollectionVersion(report)
```

Arguments

`report` Report element.

Value

Collection version of report (a string)

Author(s)

Nils Gehlenborg <nils@hms.harvard.edu>

`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 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 | <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>

| | |
|---------------------------------|---|
| <code>getCustomScreenCss</code> | <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>

| | |
|---------------------|---|
| <code>getDoi</code> | <i>Get the DOI (document object identifier, http://www.doi.org) for report.</i> |
|---------------------|---|

Description

Get the DOI (document object identifier, http://www.doi.org) for `report`.

Usage

```
getDoi(report)
```

Arguments

`report` Report element.

Value

Document object identifier (DOI) for `report`.

Author(s)

Nils Gehlenborg <nils@hms.harvard.edu>

| | |
|---------------|--|
| getDoiCreator | <i>Get the DOI creator for report.</i> |
|---------------|--|

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 | <i>Get the DOI publisher for report.</i> |
|-----------------|--|

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

```
getDoiTitle(report)
```

Arguments

`report` Report element.

Value

Title associated with the DOI of the report report.

Author(s)

Nils Gehlenborg <nils@hms.harvard.edu>

| | |
|---------------|--|
| getDoiVersion | <i>Get the DOI version for report.</i> |
|---------------|--|

Description

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 | <i>Get the DOI year for report.</i> |
|------------|-------------------------------------|

Description

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>

| | |
|---------------------------------|---|
| <code>getExportedElement</code> | <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

| | |
|-----------------------|--|
| <code>report</code> | The source report. |
| <code>exportId</code> | The ID of the exported element. <code>getExportedElementIds</code> 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>

| | |
|------------------------------------|---|
| <code>getExportedElementIds</code> | <i>Get the IDs of exported elements from <code>report</code>. This is an experimental feature of Nozzle and may not lead to the expected results.</i> |
|------------------------------------|---|

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

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

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

Get affiliation of maintainer of report.

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 | <i>Get the ID (a UUID) of report.</i> |
|-------------|---------------------------------------|

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 | <i>Get the subtitle of report.</i> |
|-------------------|------------------------------------|

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 | <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

| | |
|--------------------------|--|
| <code>authors</code> | Names of authors. |
| <code>title</code> | Title of the document. |
| <code>publication</code> | Name of the publication where the document appeared. |
| <code>issue</code> | Issue of the publication. |
| <code>number</code> | Number of the publication. |
| <code>pages</code> | Pages of the document in the publication. |
| <code>year</code> | Year when the document was published. |
| <code>url</code> | 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

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

Arguments

| | |
|----------------------|--|
| <code>...</code> | One or more strings that will be concatenated into the report title. |
| <code>version</code> | 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 getExportedElement. |
| protection | Protection level. One of PROTECTION.PUBLIC, PROTECTION.GROUP, PROTECTION.PRIVATE. |

Value

New element.

Author(s)

Nils Gehlenborg <nils@hms.harvard.edu>

| | |
|---------|--|
| newHtml | <i>Create a new freeform HTML element. THIS MUST BE USED WITH EXTRAORDINARTY CARE!</i> |
|---------|--|

Description

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

Usage

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

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 | Proction 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 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

```
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 getExportedElement. |
| protection | Proection 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 formated 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 formated 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 | Proection level. One of PROTECTION.PUBLIC, PROTECTION.GROUP, PROTECTION.PRIVATE. |

Value

New element.

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)
```

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 | Proection 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, expanded = FALSE)
```

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 | Proection level. One of PROTECTION.PUBLIC, PROTECTION.GROUP, PROTECTION.PRIVATE. |
| expanded | Whether the section should expanded by default or not. |

Value

New element.

Author(s)

Nils Gehlenborg <nils@hms.harvard.edu>

| | |
|---------------|---|
| newSubSection | <i>Create a new subsection element.</i> |
|---------------|---|

Description

Create a new subsection element.

Usage

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

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 | Proection level. One of PROTECTION.PUBLIC, PROTECTION.GROUP, PROTECTION.PRIVATE. |
| expanded | Whether the section should expanded by default or not. This will not affect the state of parent sections. |

Value

New element.

Author(s)

Nils Gehlenborg <nils@hms.harvard.edu>

| | |
|------------------|--|
| newSubSubSection | <i>Create a new subsubsection element.</i> |
|------------------|--|

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 | Proection 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 border="0"> <tr> <td style="width: 15%;">table</td> <td>A matrix or data frame containing the table data. Column names will be extracted and used as column headers.</td> </tr> <tr> <td>...</td> <td>Strings that will be concatenated to form the table caption.</td> </tr> <tr> <td>file</td> <td>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.</td> </tr> <tr> <td>significantDigits</td> <td>Number of significant digits used to trim all numeric columns. The default is TABLE.SIGNIFICANT.DIGITS.</td> </tr> <tr> <td>exportId</td> <td>Unique string to identify this element. Used to retrieve the element using getExportedElement.</td> </tr> <tr> <td>protection</td> <td>Proction level. One of PROTECTION.PUBLIC, PROTECTION.GROUP, PROTECTION.PRIVATE.</td> </tr> </table> | 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 | Proction level. One of PROTECTION.PUBLIC, PROTECTION.GROUP, PROTECTION.PRIVATE. |
| 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 | Proction level. One of PROTECTION.PUBLIC, PROTECTION.GROUP, PROTECTION.PRIVATE. | | | | | | | | | | | |

Value

New element.

Author(s)

Nils Gehlenborg <nils@hms.harvard.edu>

| | |
|----------------|--|
| newWebCitation | <i>Create a citation element that represents a document published online. This is a convenience wrapper for newCitation.</i> |
|----------------|--|

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 | <i>Group visibility.</i> |
|------------------|--------------------------|

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"

| | |
|-------------------|--|
| setCollectionDate | <i>Set the collection date of report. The collection date is the date when the collection that this report is part of was created.</i> |
|-------------------|--|

Description

Set the collection date of report. The collection date is the date when the collection that this report is part of was created.

Usage

```
setCollectionDate(report, ...)
```

Arguments

| | |
|--------|--|
| report | Report element. |
| ... | One or more strings that will be concatenated to form the collection date of the report. |

Value

Updated report element or NA if report has no collection date element.

Author(s)

Nils Gehlenborg <nils@hms.harvard.edu>

| | |
|----------------------|--|
| setCollectionVersion | <i>Set the collection version of report. The collection version is the version string of the collection that this report is part of.</i> |
|----------------------|--|

Description

Set the collection version of report. The collection version is the version string of the collection that this report is part of.

Usage

```
setCollectionVersion(report, ...)
```

Arguments

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

Value

Updated report element or NA if report has no collection version element.

Author(s)

Nils Gehlenborg <nils@hms.harvard.edu>

`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

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

Value

Updated report element.

Author(s)

Nils Gehlenborg <nils@hms.harvard.edu>

`setCopyright` *Set copyright messsage for report.*

Description

Set copyright messsage for report.

Usage

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

Arguments

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

Value

Updated report element.

Author(s)

Nils Gehlenborg <nils@hms.harvard.edu>

`setCustomPrintCss` *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.*

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

| | |
|----------------------|---|
| <code>report</code> | Report element. |
| <code>cssFile</code> | 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>

| | |
|--------|---|
| setDoi | <i>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.</i> |
|--------|---|

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

- | | |
|--------|---------------------------------|
| report | Report element. |
| doi | The document object identifier. |

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

```
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 | <i>Set the DOI meta data publisher for report.</i> |
|-----------------|--|

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

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".

Value

Updated report element.

Author(s)

Nils Gehlenborg <nils@hms.harvard.edu>

`setDoiTitle`

Set the DOI meta data title for report.

Description

Set the DOI meta data title for report.

Usage

`setDoiTitle(report, title)`

Arguments

| | |
|---------------------|----------------------|
| <code>report</code> | Report element. |
| <code>title</code> | 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 | <i>Set the DOI meta data version for report.</i> |
|---------------|--|

Description

Set the DOI meta data version for report.

Usage

```
setDoiVersion(report, version)
```

Arguments

| | |
|---------|------------------------|
| report | Report element. |
| version | Version 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>

| | |
|------------|---|
| setDoiYear | <i>Set the DOI meta data year for report.</i> |
|------------|---|

Description

Set the DOI meta data year for report.

Usage

```
setDoiYear(report, year)
```

Arguments

| | |
|--------|---------------------------------|
| report | Report element. |
| year | Publication year 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>

setFigureFile

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

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 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

| | |
|----------------------|--------------------------------|
| <code>element</code> | A figure element. |
| <code>file</code> | 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

| | |
|---------------------|--|
| <code>report</code> | Report element. |
| <code>id</code> | 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

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

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

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

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

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

| | |
|--------------------------------|--|
| <code>setPreviousReport</code> | <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

| | |
|---------------------|---|
| <code>report</code> | Report object. |
| <code>url</code> | URL of the next report. |
| <code>...</code> | One or more strings that will be concatenated to form the title of the previous report. |

Value

Updated report element.

Author(s)

nils

| | |
|--------------------------------|------------------------------------|
| <code>setReportSubTitle</code> | <i>Set the subtitle of report.</i> |
|--------------------------------|------------------------------------|

Description

Set the subtitle of report.

Usage

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

Arguments

| | |
|---------------------|---|
| <code>report</code> | Report element. |
| <code>...</code> | 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 | <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

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

| | |
|----------|--|
| 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)

Nils Gehlenborg <nils@hms.harvard.edu>

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