# Package: easyreporting (via r-universe)

November 25, 2026

**Type** Package

**Title** Helps creating report for improving Reproducible Computational Research

**Version** 1.26.0

**Description** An S4 class for facilitating the automated creation of rmarkdown files inside other packages/software even without knowing rmarkdown language. Best if implemented in functions as ``recursive'' style programming.

**License** Artistic-2.0

**Encoding** UTF-8

**biocViews** ReportWriting

**LazyData** false

**BugReports** https://github.com/drighelli/easyreporting/issues

**Imports** rmarkdown, methods, tools, shiny, rlang

**Suggests** distill, BiocStyle, knitr, readxl, edgeR, limma, EDASeq, statmod

**VignetteBuilder** knitr

**Config/roxygen2/version** 8.1.1

**Config/pak/sysreqs** cmake make libuv1-dev zlib1g-dev

**Repository** Bioconductor 3.24

**Date/Publication** 2026-11-23 22:43:51 UTC

**RemoteUrl** https://github.com/bioc/easyreporting

**RemoteRef** RELEASE_3_24

**RemoteSha** ecc62f250ee8084189589b3a8c94a7a4d18adb6d

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---

`addResource` *addResource*

---

## Description

addResource

## Usage

```
addResource(object, source, reference, description)
```

### Arguments

| | |
|---|---|
| object | an easyreporting class instance |
| source | a string indicating the reference (i.e. "GEO") |
| reference | a string indicanting the reference of the source (i.e. "GSE60231) |
| description | a natural language description |

### Value

an easyreporting class instance

### Examples

```
rd <- easyreporting(filenamePath=tempfile("project_report"),
                        title="example_report", author=c("It's me"))
rd <- addResource(rd, source="GEO", "GSE60231", "Transcriptome of BMDC to different antigen delivery systems")
if (rmarkdown::pandoc_available()) {
    compile(rd)
}
```

---

## addResource,easyreporting-method
*addResource*

---

### Description

addResource

### Usage

```
## S4 method for signature 'easyreporting'
addResource(object, source, reference, description)
```

### Arguments

| | |
|---|---|
| object | an easyreporting class instance |
| source | a string indicating the reference (i.e. "GEO") |
| reference | a string indicanting the reference of the source (i.e. "GSE60231) |
| description | a natural language description |

### Value

an easyreporting class instance

## Examples

```
rd <- easyreporting(filenamePath=tempfile("project_report"),
                        title="example_report", author=c("It's me"))
rd <- addResource(rd, source="GEO", "GSE60231", "Transcriptome of BMDC to different antigen delivery systems")
if (rmarkdown::pandoc_available()) {
    compile(rd)
}
```

---

# compile *compile*

---

## Description

prints the sessionInfo and compiles the produced rmarkdown file into an HTML report.

## Usage

```
compile(object)
```

## Arguments

| | |
|---|---|
| object | an easyreporting class object |

## Value

none

## Examples

```
rd <- easyreporting(filenamePath=tempfile("project_report"), title="example_report",
                        author=c("It's me"))
if (rmarkdown::pandoc_available()) {
    compile(rd)
}
```

---

# compile,easyreporting-method *compile*

---

## Description

prints the sessionInfo and compiles the rmarkdown file

## Usage

```
## S4 method for signature 'easyreporting'
compile(object)
```

### Arguments

| | |
|---|---|
| object | an easyreporting class object |

### Value

none

### Examples

```
rd <- easyreporting(filenamePath=tempfile("project_report"), title="example_report",
                        author=c("It's me"))
if (rmarkdown::pandoc_available()) {
    compile(rd)
}
```

---

## easyreporting *easyreporting*

---

### Description

An S4 class for managing rmarkdown report. Each instance describes an rmarkdown file.

### Usage

```
easyreporting(
  filenamePath,
  title,
  author,
  optionList = NULL,
  documentType = "rmarkdown::html_document",
  bibfile = ""
)

easyreporting(
  filenamePath,
  title,
  author,
  optionList = NULL,
  documentType = "rmarkdown::html_document",
  bibfile = ""
)
```

### Arguments

| | |
|---|---|
| filenamePath | the path with the name of the rmarkdown. |
| title | the title of the report section. |
| author | the author(s) of the report. |

| | |
|---|---|
| optionList | a list of options for the general rmarkdown document. |
| documentType | type of report final document, if author(s) is a person it will be distill::distill_article (rmarkdown::html_document default) |
| bibfile | a bibfile for bibliography. |

## Value

an S4 easyreporting class instance

## Slots

filenamePath the path with the name of the rmarkdown.

title the title of the report section.

author the author(s) of the report.

documentType type of report final document, if author(s) is a person it will be distill::distill_article (rmarkdown::html_document default)

bibfile a bibfile for bibliography.

optionList a list of options for the general rmarkdown document.

resources a data frame of data sources used in the report.

## Examples

```
rd <- easyreporting(filenamePath=tempfile("project_report"),
                        title="example_report", author="It's me")
```

---

erGUIVolcano *erGUIVolcano*

---

## Description

executes a Shiny GUI to perform a volcano plot and trace its executed functions.

## Usage

```
erGUIVolcano()
```

## Value

none

## Examples

```
## Not run:
erGUIVolcano()

## End(Not run)
```

getBibliography *getBibliography*

## Description

returns the bibfile name attached to the object

## Usage

```
getBibliography(object)
```

## Arguments

| | |
|---|---|
| object | an easyreporting class object |

## Value

none

## Examples

```
rd <- easyreporting(filenamePath=tempfile("report"),
                    title="Example", author="Author")
bibfile <- tempfile(fileext=".bib")
writeLines("", bibfile)
setBibliography(rd, bibfile)
getBibliography(rd)
```

---

getBibliography,easyreporting-method *getBibliography*

## Description

returns the bibfile name attached to the object

## Usage

```
## S4 method for signature 'easyreporting'
getBibliography(object)
```

## Arguments

| | |
|---|---|
| object | an easyreporting class object |

## Value

none

## Examples

```
rd <- easyreporting(tempfile("report"), "Example", "Author")
getBibliography(rd)
```

---

`getOptionsList` *getOptionsList*

---

## Description

returns the optionList from the easyreporting class (see the makeOptionList function for more details).

## Usage

```
getOptionsList(object)
```

## Arguments

| | |
|---|---|
| `object` | an easyreporting class object |

## Value

a list of options

## Examples

```
rd <- easyreporting(filenamePath=tempfile("project_report"), title="example_report",
                        author=c("It's me"))
optList <- getOptionsList(rd)
```

---

`getOptionsList,easyreporting-method` *getOptionsList*

---

## Description

returns the optionList from the easyreporting class

## Usage

```
## S4 method for signature 'easyreporting'
getOptionsList(object)
```

### Arguments

| | |
|---|---|
| object | an easyreporting class object |

### Value

a list of options

### Examples

```
rd <- easyreporting(filenamePath=tempfile("project_report"), title="example_report",
                        author=c("It's me"))
optList <- getOptionsList(rd)
```

---

## getReportFilename *getReportFilename*

---

### Description

returns the filename with its path of the report generated by easyreporting

### Usage

```
getReportFilename(object)
```

### Arguments

| | |
|---|---|
| object | an easyreporting class object |

### Value

a string of report file name with path

### Examples

```
rd <- easyreporting(filenamePath=tempfile("project_report"),
                        title="example_report", author=c("It's me"))
(rep <- getReportFilename(rd))
```

## getReportFilename,easyreporting-method *getReportFilename*

### Description

returns the report filename with path

### Usage

```
## S4 method for signature 'easyreporting'
getReportFilename(object)
```

### Arguments

| | |
|---|---|
| object | an easyreporting class object |

### Value

a string of report file name with path

### Examples

```
rd <- easyreporting(filenamePath=tempfile("project_report"),
                        title="example_report", author=c("It's me"))
(rep <- getReportFilename(rd))
```

## makeOptionsList *makeOptionsList*

### Description

makes an list of rmarkdown options

### Usage

```
makeOptionsList(
  cacheFlag = TRUE,
  evalFlag = TRUE,
  echoFlag = TRUE,
  warningFlag = FALSE,
  showMessages = FALSE,
  includeFlag = TRUE,
  collapseFlag = FALSE,
  purlFlag = TRUE,
  errorFlag = TRUE,
```

```
  messageFlag = TRUE,
  highlightFlag = TRUE,
  promptFlag = FALSE,
  stripWhiteFlag = TRUE,
  tidyFlag = FALSE
)
```

## Arguments

| | |
|---|---|
| cacheFlag | boolean for caching chunk data (default TRUE) |
| evalFlag | boolean for evaluating the code chunk in the compiled version (default TRUE) |
| echoFlag | boolean for showing the code chunk (default TRUE) |
| warningFlag | boolean for showing the chunk warnings (default FALSE) |
| showMessages | boolean for showing the chunk warnings in compiled version (default FALSE) |
| includeFlag | boolean for including the code chunk in the compiled version (default TRUE) |
| collapseFlag | boolean for collapsing the code chunk in the compiled version (default FALSE), |
| purlFlag | boolean for extracting the code chunk as R code in a separate R file (default TRUE), |
| errorFlag | boolean for including the error generated by the code chunk in the compiled version (default TRUE), |
| messageFlag | boolean for including the code chunk messages in the compiled version (default TRUE), |
| highlightFlag | boolean for highlinghtinh the code chunk in the compiled version (default TRUE), |
| promptFlag | boolean for including a ">" for the code chunk in the compiled version (default FALSE), |
| stripWhiteFlag | boolean for removing the white spaces at beginning/end of the code chunk in the compiled version (default TRUE), |
| tidyFlag | boolean for creating a tidy code chunk in the compiled version (default FALSE). |

## Value

list of rmarkdown options

## Examples

```
optList <- makeOptionsList()
```

mkdCodeChunkCommented *mkdCodeChunkCommented*

## Description

it creates a complete code chunk, adding a natural language comment before of it.

## Usage

```
mkdCodeChunkCommented(
  object,
  comment = NULL,
  code,
  optionList = getOptionsList(object),
  sourceFilesList = NULL
)
```

## Arguments

| | |
|---|---|
| object | an easyreporting class object |
| comment | a string with the natural language comment for the chunk. |
| code | a string within the code. |
| optionList | a list of options (default is the class options). |
| sourceFilesList | a optional list of files to source inside the chunk. |

## Value

none

## Examples

```
rd <- easyreporting(filenamePath=tempfile("project_report"),
                        title="example_report", author=c("It's me"))
optList <- makeOptionsList(includeFlag=TRUE, cacheFlag=TRUE)
mkdCodeChunkCommented(rd,
                comment="This is the comment of the following code chunk",
                code="a <- 1\n b <- 2\n (c <- a+b)\n", optionList=optList,
                sourceFilesList=NULL)
```

mkdCodeChunkCommented,easyreporting-method
*mkdCodeChunkCommented*

## Description

it creates a complete code chunk, adding a natural language comment before of it.

## Usage

```
## S4 method for signature 'easyreporting'
mkdCodeChunkCommented(
  object,
  comment = NULL,
  code,
  optionList = getOptionsList(object),
  sourceFilesList = NULL
)
```

## Arguments

| | |
|---|---|
| object | an easyreporting class object |
| comment | a string with the natural language comment for the chunk. |
| code | a string within the code. |
| optionList | a list of options (default is the class options). |
| sourceFilesList | a optional list of files to source inside the chunk. |

## Value

none

## Examples

```
rd <- easyreporting(filenamePath=tempfile("project_report"),
                        title="example_report", author=c("It's me"))
optList <- makeOptionsList(includeFlag=TRUE, cacheFlag=TRUE)
mkdCodeChunkCommented(rd,
                comment="This is the comment of the following code chunk",
                code=c(quote(a <- 1), quote(b <- 2), quote(c <- a+b)),
                optionList=optList, sourceFilesList=NULL)
mkdCodeChunkCommented(rd,
                comment="This is the comment of the following code chunk",
                code="a <- 1\n b <- 2\n(c <- a+b)\n", optionList=optList,
                sourceFilesList=NULL)
```

`mkdCodeChunkComplete` *mkdCodeChunkComplete*

## Description

it creates a complete code chunk.

## Usage

```
mkdCodeChunkComplete(
  object,
  code,
  optionList = getOptionsList(object),
  sourceFilesList = NULL
)
```

## Arguments

| | |
|---|---|
| `object` | an easyreporting class object |
| `code` | a string or an expression generated with quote containing a function call or the entire code chunk to trace. |
| `optionList` | a list of options. |
| `sourceFilesList` | a list of files to source. |

## Value

none

## Examples

```
 rd <- easyreporting(filenamePath=tempfile("project_report"),
                       title="example_report", author=c("It's me"))
mkdCodeChunkComplete(rd, code="a <- 1\n b <- 2\n c <- a+b\n print(c)")
```

`mkdCodeChunkComplete,easyreporting-method` *mkdCodeChunkComplete*

## Description

it creates a complete code chunk.

### Usage

```
## S4 method for signature 'easyreporting'
mkdCodeChunkComplete(
  object,
  code,
  optionList = getOptionsList(object),
  sourceFilesList = NULL
)
```

### Arguments

| | |
|---|---|
| object | an easyreporting class object |
| code | a string or an expression (or a list of expressions) generated with quote containing a function call or the entire code chunk to trace. |
| optionList | a list of options. |
| sourceFilesList | a list of files to source. |

### Value

none

### Examples

```
rd <- easyreporting(filenamePath=tempfile("project_report"),
                        title="example_report", author=c("It's me"))
mkdCodeChunkComplete(rd, code=c(quote(a <- 1), quote(b <- 2), quote(c<-  a+b),
quote(print(c))))
mkdCodeChunkComplete(rd, code="a <- 1\n b <- 2\n c <- a+b\n print(c)")
```

---

## mkdCodeChunkEnd *mkdCodeChunkEnd*

---

### Description

it creates a code chunk end. Always use it after a mkdCodeChunkSt()

### Usage

```
mkdCodeChunkEnd(object)
```

### Arguments

| | |
|---|---|
| object | an easyreporting class object |

### Value

none

## Examples

```
 rd <- easyreporting(filenamePath=tempfile("project_report"),
                       title="example_report", author=c("It's me"))
mkdCodeChunkSt(rd)
## just leaving empty
mkdCodeChunkEnd(rd)
```

---

mkdCodeChunkEnd,easyreporting-method *mkdCodeChunkEnd*

---

## Description

it creates a code chunk end. Always use it after a mkdCodeChunkSt()

## Usage

```
## S4 method for signature 'easyreporting'
mkdCodeChunkEnd(object)
```

## Arguments

| | |
|---|---|
| object | an easyreporting class object |

## Value

none

## Examples

```
 rd <- easyreporting(filenamePath=tempfile("project_report"),
                       title="example_report", author=c("It's me"))
mkdCodeChunkSt(rd)
## just leaving empty
mkdCodeChunkEnd(rd)
```

---

mkdCodeChunkSt *mkdCodeChunkSt*

---

## Description

it creates a code chunk start. A list of options and files to source for the chunk can optionally be passed to the function.

## Usage

```
mkdCodeChunkSt(
  object,
  optionList = getOptionsList(object),
  sourceFilesList = NULL,
  isComplete = FALSE
)
```

## Arguments

| | |
|---|---|
| object | an easyreporting class object |
| optionList | a list of options |
| sourceFilesList | a list of files that can be sourced inside the code chunk. |
| isComplete | a flag determining if the chunk is already a complete chunk |

## Value

none

## Examples

```
rd <- easyreporting(filenamePath=tempfile("project_report"),
                        title="example_report", author=c("It's me"))
## no options
mkdCodeChunkSt(rd)
## just leaving empty
mkdCodeChunkEnd(rd)

## setting options
optList <- makeOptionsList(includeFlag=TRUE)
mkdCodeChunkSt(rd, optionList=optList)
## just leaving empty
mkdCodeChunkEnd(rd)
```

---

# mkdCodeChunkSt,easyreporting-method *mkdCodeChunkSt*

---

## Description

it creates a code chunk start. A list of options and files to source for the chunk can optionally be passed to the function.

## Usage

```
## S4 method for signature 'easyreporting'
mkdCodeChunkSt(
  object,
  optionList = getOptionsList(object),
  sourceFilesList = NULL,
  isComplete = FALSE
)
```

## Arguments

| | |
|---|---|
| object | an easyreporting class object |
| optionList | a list of options |
| sourceFilesList | a list of files that can be sourced inside the code chunk. |
| isComplete | a flag determining if the chunk is already a complete chunk |

## Value

none

## Examples

```
rd <- easyreporting(filenamePath=tempfile("project_report"),
                        title="example_report", author=c("It's me"))
## no options
mkdCodeChunkSt(rd)
## just leaving empty
mkdCodeChunkEnd(rd)

## setting options
optList <- makeOptionsList(includeFlag=TRUE)
mkdCodeChunkSt(rd, optionList=optList)
## just leaving empty
mkdCodeChunkEnd(rd)
```

---

# mkdCodeChunkTitledCommented

*mkdCodeChunkCommented*

---

## Description

it creates a complete code chunk, adding a natural language comment before of it.

## Usage

```
mkdCodeChunkTitledCommented(
  object,
  title = NULL,
  level = 1,
  comment = NULL,
  code,
  optionList = getOptionsList(object),
  sourceFilesList = NULL
)
```

## Arguments

| | |
|---|---|
| object | an easyreporting class object |
| title | the title to assign to the code chunk section |
| level | the level of the title (default is 1) |
| comment | a string with the natural language comment for the chunk. |
| code | a string within the code. |
| optionList | a list of options (default is the class options). |
| sourceFilesList | a optional list of files to source inside the chunk. |

## Value

none

## Examples

```
rd <- easyreporting(filenamePath=tempfile("project_report"),
                        title="example_report", author=c("It's me"))
optList <- makeOptionsList(includeFlag=TRUE, cacheFlag=TRUE)
mkdCodeChunkCommented(rd,
                comment="This is the comment of the following code chunk",
                code="a <- 1\n b <- 2\n (c <- a+b)\n", optionList=optList,
                sourceFilesList=NULL)
```

---

# mkdCodeChunkTitledCommented,easyreporting-method *mkdCodeChunkTitledCommented*

---

## Description

it creates a complete code chunk, adding a natural language comment before of it.

### Usage

```
## S4 method for signature 'easyreporting'
mkdCodeChunkTitledCommented(
  object,
  title = NULL,
  level = 1,
  comment = NULL,
  code,
  optionList = getOptionsList(object),
  sourceFilesList = NULL
)
```

### Arguments

| | |
|---|---|
| object | an easyreporting class object |
| title | the title to assign to the code chunk section |
| level | the level of the title (default is 1) |
| comment | a string with the natural language comment for the chunk. |
| code | a string within the code. |
| optionList | a list of options (default is the class options). |
| sourceFilesList | a optional list of files to source inside the chunk. |

### Value

none

### Examples

```
rd <- easyreporting(filenamePath=tempfile("project_report"),
                        title="example_report", author=c("It's me"))
optList <- makeOptionsList(includeFlag=TRUE, cacheFlag=TRUE)
mkdCodeChunkTitledCommented(rd, title="Title Example", level=1,
                comment="This is the comment of the following code chunk",
                code="a <- 1\n b <- 2\n(c <- a+b)\n", optionList=optList,
                sourceFilesList=NULL)
```

---

## mkdGeneralMsg *mkdGeneralMsg*

---

### Description

It appends a general message to the report, useful for describing a code chunk or a part of the report. Useful for adding natural language comments.

### Usage

```
mkdGeneralMsg(object, message)
```

### Arguments

| | |
|---|---|
| object | an easyreporting class object |
| message | the message to append to the report |

### Value

none

### Examples

```
rd <- easyreporting(filenamePath=tempfile("project_report"),
                        title="example_report", author=c("It's me"))
mkdGeneralMsg(rd, message="Writing a paragraph to describe my code chunk")
```

---

## mkdGeneralMsg,easyreporting-method
*mkdGeneralMsg*

---

### Description

It appends a general message to the report. Useful for adding natural language comments.

### Usage

```
## S4 method for signature 'easyreporting'
mkdGeneralMsg(object, message)
```

### Arguments

| | |
|---|---|
| object | an easyreporting class object |
| message | the message to append to the report |

### Value

none

### Examples

```
rd <- easyreporting(filenamePath=tempfile("project_report"),
                        title="example_report", author=c("It's me"))
mkdGeneralMsg(rd, "Writing a paragraph to describe my code chunk")
```

mkdGeneralTitledMsg *mkdGeneralTitledMsg*

## Description

It appends a a titled section followed by a general message to the report. Useful for adding natural language comments.

## Usage

```
mkdGeneralTitledMsg(object, title = NULL, level = 1, message)
```

## Arguments

| | |
|---|---|
| object | an easyreporting class object |
| title | the title of the report section. |
| level | the level (1 to 6) of the title (default is 1) |
| message | the message to append to the report |

## Value

none

## Examples

```
rd <- easyreporting(filenamePath=tempfile("project_report"),
                        title="example_report", author=c("It's me"))
mkdGeneralTitledMsg(rd, title="Generic SubTitle for this message", level=2,
            message="Writing a paragraph to describe my code chunk")
```

mkdGeneralTitledMsg,easyreporting-method
*mkdGeneralTitledMsg*

## Description

It appends a a titled section followed by a general message to the report. Useful for adding natural language comments.

## Usage

```
## S4 method for signature 'easyreporting'
mkdGeneralTitledMsg(object, title = NULL, level = 1, message)
```

### Arguments

| | |
|---|---|
| object | an easyreporting class object |
| title | the optional title to give to the message section |
| level | the level (1 to 6) of the title (default is 1) |
| message | the message to append to the report |

### Value

none

### Examples

```
rd <- easyreporting(filenamePath=tempfile("project_report"),
                        title="example_report", author=c("It's me"))
mkdGeneralTitledMsg(rd, title="Generic SubTitle for this message", level=2,
        message="Writing a paragraph to describe my code chunk")
```

---

## mkdTitle *mkdTitle*

---

### Description

Inserts an rmarkdown title inside the report, useful for create distinct sections inside the final resport.

### Usage

```
mkdTitle(object, title, level = 1)
```

### Arguments

| | |
|---|---|
| object | an easyreporting class object |
| title | a string within the title. |
| level | a numeric from 1 to 6 (default is 1). |

### Value

none

### Examples

```
rd <- easyreporting(filenamePath=tempfile("project_report"),
                        title="example_report", author=c("It's me"))

mkdTitle(rd, "First Level Title")
mkdTitle(rd, "Sub-Title", level=2)
```

## mkdTitle,easyreporting-method *mkdTitle*

### Description

Inserts an rmarkdown title inside the report.

### Usage

```
## S4 method for signature 'easyreporting'
mkdTitle(object, title, level = 1)
```

### Arguments

| | |
|---|---|
| object | an easyreporting class object |
| title | a string within the title. |
| level | a numeric from 1 to 6 (default is 1). |

### Value

none

### Examples

```
rd <- easyreporting(filenamePath=tempfile("project_report"),
                        title="example_report", author=c("It's me"))

mkdTitle(rd, "First Level Title")
mkdTitle(rd, "Sub-Title", level=2)
```

## mkdVariableAssignment *mkdVariableAssignment*

### Description

it includes a variable assignment in the report. NB: a call to the "mkdCodeChunkSt" has to be done before using it.

### Usage

```
mkdVariableAssignment(object, variable.name, variable.object.name, show)
```

### Arguments

| | |
|---|---|
| object | an easyreporting class object |
| variable.name | a string indicating the name of the variabe to store in the report. (This can be changed here, but further uses of the variable needs to take into account the variable name change). |
| variable.object.name | the name of the already existing variable. (This cannot be canged.) |
| show | a boolean indicating if to show the message before writing it into the rmardown file. |

### Value

none

### Examples

```
rd <- easyreporting(filenamePath=tempfile("project_report"),
                        title="example_report", author=c("It's me"))
## leaving the default options to the code chunk
mkdCodeChunkSt(rd)
## adding a variable assignement
variable <- 1
mkdVariableAssignment(rd, "variable", "variable", show=TRUE)
mkdCodeChunkEnd(rd)
```

---

## mkdVariableAssignment,easyreporting-method
*mkdVariableAssignment*

---

### Description

it includes a variable assignment in the report. NB: a call to the "mkdCodeChunkSt" has to be done before using it.

### Usage

```
## S4 method for signature 'easyreporting'
mkdVariableAssignment(
  object,
  variable.name,
  variable.object.name,
  show = FALSE
)
```

### Arguments

| | |
|---|---|
| object | an easyreporting class object |
| variable.name | a string indicating the name of the variabe to store in the report. (This can be changed here, but further uses of the variable needs to take into account the variable name change). |
| variable.object.name | the name of the already existing variable. (This cannot be canged.) |
| show | a boolean indicating if to show the message before writing it into the rmardown file. |

### Value

none

### Examples

```
rd <- easyreporting(filenamePath=tempfile("project_report"),
                        title="example_report", author=c("It's me"))
## leaving the default options to the code chunk
mkdCodeChunkSt(rd)
## adding a variable assignement
variable <- 1
mkdVariableAssignment(rd, "variable", "variable", show=TRUE)
mkdCodeChunkEnd(rd)
```

---

## setBibliography *setBibliography*

---

### Description

add a bibfile name to the object that will be reflected into the report as a bibliography section

### Usage

```
setBibliography(object, bibfile = NULL)
```

### Arguments

| | |
|---|---|
| object | an easyreporting class object |
| bibfile | a path string with the name of the bib file |

### Value

none

## Examples

```
rd <- easyreporting(filenamePath=tempfile("report"),
                    title="Example", author="Author")
bibfile <- tempfile(fileext=".bib")
writeLines("", bibfile)
setBibliography(rd, bibfile)
getBibliography(rd)
```

---

`setOptionsList` *setOptionsList*

---

## Description

set an optionList to the class, it automatically sets the options for the rmarkdown file. Are useful for the interpretation/execution of the code chunks.

## Usage

```
setOptionsList(
  object,
  cacheFlag = TRUE,
  evalFlag = TRUE,
  echoFlag = TRUE,
  warningFlag = FALSE,
  showMessages = FALSE,
  includeFlag = TRUE,
  collapseFlag = FALSE,
  purlFlag = TRUE,
  errorFlag = TRUE,
  messageFlag = TRUE,
  highlightFlag = TRUE,
  promptFlag = FALSE,
  stripWhiteFlag = TRUE,
  tidyFlag = FALSE
)
```

## Arguments

| | |
|---|---|
| `object` | an easyreporting class object |
| `cacheFlag` | boolean for caching chunk data (default TRUE) |
| `evalFlag` | boolean for evaluating the code chunk in the compiled version (default TRUE) |
| `echoFlag` | boolean for showing the code chunk (default TRUE) |
| `warningFlag` | boolean for showing the chunk warnings (default FALSE) |
| `showMessages` | boolean for showing the chunk warnings in compiled version (default FALSE) |
| `includeFlag` | boolean for including the code chunk in the compiled version (default TRUE) |

| | |
|---|---|
| collapseFlag | boolean for collapsing the code chunk in the compiled version (default FALSE), |
| purlFlag | boolean for extracting the code chunk as R code in a separate R file (default TRUE), |
| errorFlag | boolean for including the error generated by the code chunk in the compiled version (default TRUE), |
| messageFlag | boolean for including the code chunk messages in the compiled version (default TRUE), |
| highlightFlag | boolean for highlinghtinh the code chunk in the compiled version (default TRUE), |
| promptFlag | boolean for including a ">" for the code chunk in the compiled version (default FALSE), |
| stripWhiteFlag | boolean for removing the white spaces at beginning/end of the code chunk in the compiled version (default TRUE), |
| tidyFlag | boolean for creating a tidy code chunk in the compiled version (default FALSE). |

## Value

none

## Examples

```
rd <- easyreporting(filenamePath=tempfile("project_report"),
                        title="example_report", author=c("It's me"))

## setting default option
setOptionsList(rd)

## modifying only some options
rd <- setOptionsList(rd, warningFlag=TRUE,
        showMessages=TRUE, includeFlag=TRUE)
```

---

# setOptionsList,easyreporting-method
*setOptionsList*

---

## Description

set an optionList to the class

## Usage

```
## S4 method for signature 'easyreporting'
setOptionsList(
  object,
  cacheFlag = TRUE,
  evalFlag = TRUE,
  echoFlag = TRUE,
```

```
  warningFlag = FALSE,
  showMessages = FALSE,
  includeFlag = TRUE,
  collapseFlag = FALSE,
  purlFlag = TRUE,
  errorFlag = TRUE,
  messageFlag = TRUE,
  highlightFlag = TRUE,
  promptFlag = FALSE,
  stripWhiteFlag = TRUE,
  tidyFlag = FALSE
)
```

## Arguments

| | |
|---|---|
| object | an easyreporting class object |
| cacheFlag | boolean for caching chunk data (default TRUE) |
| evalFlag | boolean for evaluating the code chunk in the compiled version (default TRUE) |
| echoFlag | boolean for showing the code chunk (default TRUE) |
| warningFlag | boolean for showing the chunk warnings (default FALSE) |
| showMessages | boolean for showing the chunk warnings in compiled version (default FALSE) |
| includeFlag | boolean for including the code chunk in the compiled version (default TRUE) |
| collapseFlag | boolean for collapsing the code chunk in the compiled version (default FALSE), |
| purlFlag | boolean for extracting the code chunk as R code in a separate R file (default TRUE), |
| errorFlag | boolean for including the error generated by the code chunk in the compiled version (default TRUE), |
| messageFlag | boolean for including the code chunk messages in the compiled version (default TRUE), |
| highlightFlag | boolean for highlinghtinh the code chunk in the compiled version (default TRUE), |
| promptFlag | boolean for including a ">" for the code chunk in the compiled version (default FALSE), |
| stripWhiteFlag | boolean for removing the white spaces at beginning/end of the code chunk in the compiled version (default TRUE), |
| tidyFlag | boolean for creating a tidy code chunk in the compiled version (default FALSE). |

## Value

none

## Examples

```
rd <- easyreporting(filenamePath=tempfile("project_report"),
                        title="example_report", author=c("It's me"))
```

```
## setting default option
setOptionsList(rd)

## modifying only some options
rd <- setOptionsList(rd, warningFlag=TRUE,
        showMessages=TRUE, includeFlag=TRUE)
```

---

show,easyreporting-method *Display an easyreporting object*

---

## Description

Display an easyreporting object

## Usage

```
## S4 method for signature 'easyreporting'
show(object)
```

## Arguments

| | |
|---|---|
| object | an easyreporting class object. |

## Value

The object, invisibly.

## Examples

```
report <- easyreporting(tempfile("report"), "Example", "Author")
show(report)
```

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