

Package ‘MOQA’

October 12, 2022

Type Package

Title Basic Quality Data Assurance for Epidemiological Research

Version 2.0.0

Date 2017-06-21

Author

Martin Bialke <mosaic-projekt@uni-greifswald.de>, Thea Schwaneberg <thea.schwaneberg@uni-greifswald.de>

Maintainer Martin Bialke <mosaic-projekt@uni-greifswald.de>

Description With the provision of several tools and templates the MOSAIC project (DFG-Grant Number HO 1937/2-1) supports the implementation of a central data management in epidemiological research projects. The 'MOQA' package enables epidemiologists with none or low experience in R to generate basic data quality reports for a wide range of application scenarios. See <<https://mosaic-greifswald.de/>> for more information. Please read and cite the corresponding open access publication (using the former package-name) in METHODS OF INFORMATION IN MEDICINE by M. Bialke, H. Rau, T. Schwaneberg, R. Walk, T. Bahls and W. Hoffmann (2017) <doi:10.3414/ME16-01-0123>. <<https://methods.schattauer.de/en/contents/most-recent-articles/issue/2483/issue/special/manuscript/27573/show.html>>.

License AGPL-3

Depends psych, gplots, grid, readr

NeedsCompilation no

Repository CRAN

Date/Publication 2017-06-22 13:23:11 UTC

R topics documented:

codelist	2
footnoteString	3
labelCounts	3
labelPercentage	3
label_boxplot	4
label_description	4
label_normalverteilung	4

label_qnormplot	5
label_unit	5
MOQA	5
MOQA.env	10
mosaic.addFootnote	10
mosaic.beginPlot	11
mosaic.countValue	11
mosaic.createSimplePdfCategorical	12
mosaic.createSimplePdfCategoricalDataframe	13
mosaic.createSimplePdfMetric	13
mosaic.createSimplePdfMetricDataframe	14
mosaic.finishPlot	15
mosaic.generateCategoricalPlot	16
mosaic.generateMetricPlots	16
mosaic.generateMetricTablePlot	17
mosaic.getTimestamp	18
mosaic.importToolboxSpssDataFile	18
mosaic.info	19
mosaic.loadCsvData	19
mosaic.preProcessCategoricalData	20
mosaic.preProcessMetricData	20
mosaic.setGlobalCodelist	21
mosaic.setGlobalDescription	21
mosaic.setGlobalMissingTreshold	22
mosaic.setGlobalUnit	23
outputPrefix	23
qualifiedMissingsTreshold	24

Index	25
--------------	-----------

codelist	<i>codelist</i>
----------	-----------------

Description

internal data variable

Note

internal data variable

Author(s)

The MOSAIC Project, Martin Bialke

footnoteString	<i>footnoteString</i>
----------------	-----------------------

Description

internal data variable

Note

internal data variable

Author(s)

The MOSAIC Project, Martin Bialke

labelCounts	<i>labelCounts</i>
-------------	--------------------

Description

internal label for data variable

Note

internal label for data variable

Author(s)

The MOSAIC Project, Martin Bialke

labelPercentage	<i>labelPercentage</i>
-----------------	------------------------

Description

internal label for data variable

Note

internal label for data variable

Author(s)

The MOSAIC Project, Martin Bialke

label_boxplot *label_boxplot*

Description

internal label for data variable

Note

internal label for data variable

Author(s)

The MOSAIC Project, Martin Bialke

label_description *label_description*

Description

internal label for data variable

Note

internal label for data variable

Author(s)

The MOSAIC Project, Martin Bialke

label_normalverteilung
label_normalverteilung

Description

internal label for data variable

Note

internal label for data variable

Author(s)

The MOSAIC Project, Martin Bialke

label_qnormplot	<i>label_qnormplot</i>
-----------------	------------------------

Description

internal label for data variable

Note

internal label for data variable

Author(s)

The MOSAIC Project, Martin Bialke

label_unit	<i>label_unit</i>
------------	-------------------

Description

internal label for data variable

Note

internal label for data variable

Author(s)

The MOSAIC Project, Martin Bialke

MOQA	<i>Basic Quality Data Assurance for Epidemiological Research</i>
------	--

Description

With the provision of several tools and templates the MOSAIC project (DFG-Grant Number HO 1937/2-1) supports the implementation of a central data management in epidemiological research projects. The 'MOQA' package enables epidemiologists with none or low experience in R to generate basic data quality reports for a wide range of application scenarios. See <https://mosaic-greifswald.de/> for more information. Please read and cite the corresponding open access publication (using the former package-name) in METHODS OF INFORMATION IN MEDICINE by M. Bialke, H. Rau, T. Schwaneberg, R. Walk, T. Bahls and W. Hoffmann (2017) <doi:10.3414/ME16-01-0123>. <https://methods.schattauer.de/en/contents/most-recent-articles/issue/2483/issue/special/manuscript/27573/show>.

Details

The DESCRIPTION file:

```

Package:      MOQA
Type:        Package
Title:       Basic Quality Data Assurance for Epidemiological Research
Version:     2.0.0
Date:       2017-06-21
Author:      Martin Bialke <mosaic-projekt@uni-greifswald.de>, Thea Schwaneberg <thea.schwaneberg@uni-greifswald.de>
Maintainer:  Martin Bialke <mosaic-projekt@uni-greifswald.de>
Description: With the provision of several tools and templates the MOSAIC project (DFG-Grant Number HO 1937/2)
License:     AGPL-3
Depends:    psych, gplots, grid, readr
NeedsCompilation: no
Repository:  CRAN

```

Index of help topics:

```

MOQA.env          MOQA.env
codelist          codelist
footnoteString   footnoteString
labelCounts      labelCounts
labelPercentage  labelPercentage
label_boxplot    label_boxplot
label_description label_description
label_normalverteilung
                  label_normalverteilung
label_qnormplot  label_qnormplot
label_unit       label_unit
moqa             Basic Quality Data Assurance for
                  Epidemiological Research
mosaic.addFootnote  addFootnote
mosaic.beginPlot   beginPlot
mosaic.countValue  countValue
mosaic.createSimplePdfCategorical
                  createSimplePdfCategorical
mosaic.createSimplePdfCategoricalDataframe
                  createSimplePdfCategoricalDataframe
mosaic.createSimplePdfMetric
                  createSimplePdfMetric
mosaic.createSimplePdfMetricDataframe
                  createSimplePdfMetricDataframe
mosaic.finishPlot  finishPlot
mosaic.generateCategoricalPlot
                  generateCategoricalPlot
mosaic.generateMetricPlots
                  generateMetricPlots
mosaic.generateMetricTablePlot
                  generateMetricTablePlot
mosaic.getTimestamp  getTimestamp

```

```
mosaic.importToolboxSpssDataFile
importToolboxSpssDataFile
mosaic.info
info
mosaic.loadCsvData
loadCsvData
mosaic.preProcessCategoricalData
preProcessCategoricalData
mosaic.preProcessMetricData
preProcessMetricData
mosaic.setGlobalCodelist
setGlobalCodelist
mosaic.setGlobalDescription
setGlobalDescription
mosaic.setGlobalMissingTreshold
setGlobalMissingTreshold
mosaic.setGlobalUnit
setGlobalUnit
outputPrefix
outputPrefix
qualifiedMissingsTreshold
qualifiedMissingsTreshold
```

The aim of the MOQA R-Package is to provide a basic assessment of data quality and to generate a set of informative graphs. Especially, there should be no demand for the potential researcher to master R. This R-package enables researchers to generate reports for various kinds of metric and categorical data. Additionally, general reports for multivariate input data and, if needed, detailed results for single-variable data can be produced.

CSV-files as well as dataframes can be used as input format to create a report. The results are instantly saved in an automatically generated PDF-file. For each study variable within the data input file a separate PDF-file with standard or, if applicable, customized plots and tables is produced. These standard reports enable the user to monitor and report the data integrity and completeness. However, for more specific reports the knowledge of metadata is necessary, including definition of units, variables, descriptions, code lists and categories of qualified missings.

Version 1.2 ——— ADDED Support for metric and categorical dataframes BUGFIX Aborted report generation in case of non-existent missings in datacolumn

Version 2.0 ——— RENAME Official Renaming of former package-name mosaicQA to MOQA
ADDED new function importToolboxSpssDataFile

Author(s)

Martin Bialke <mosaic-projekt@uni-greifswald.de>, Thea Schwaneberg <thea.schwaneberg@uni-greifswald.de>, Rene Walk <rene.walk@uni-greifswald.de>

Maintainer: Martin Bialke <mosaic-projekt@uni-greifswald.de>

See Also

mosaic-greifswald.de

Examples

```
## Example 1: Generate pdf with graphs for a single metric data column, e.g. data of body height

# load MOQA package
library('MOQA')

# specify the csv import file with metric data, use one column per variable
metric_datafile='c:/mosaic/metric_single_var.csv'

#specify output folder
outputFolder='c:/mosaic/outputs/'

#set missing threshold, optional, default is 99900
mosaic.setGlobalMissingTreshold(99900)

#set variable unit, optional
mosaic.setGlobalUnit('(cm)')

#set variable description, optional, if not uses the name of the variable is displayed in
#table heading
mosaic.setGlobalDescription('Height')

#create PDF-report,
#uncomment to start report-generation
#mosaic.createSimplePdfmetric(metric_datafile, outputFolder)

## Example 2: Generate pdf with graphs for a single categorical data column

# load MOQA package
library('MOQA')

# specify the import file with Categorical data
# first row has to contain variable names without special characters
Categorical_datafile='c:/mosaic/cat_single_var_en.csv'

#specify output folder
outputFolder='c:/mosaic/outputs/'

#set treshold to detect missings, default is 99900 (adjust this line to change this global value,
#but be careful)
mosaic.setGlobalMissingTreshold(99900)

#set description of var
mosaic.setGlobalCodelist(c('1=yes','2=no','99996=not specified','99997=not acquired'))

# create simple pdf file foreach variable column in Categorical data file,
# uncomment to start report-generation
# mosaic.createSimplePdfCategorical(Categorical_datafile,outputFolder)
```



```
## Example 3: Generate pdf with graphs for a multiple metric data columns, generates one pdf for  
# each column using the variable name for table headings
```

```
# load MOQA package  
library('MOQA')
```

```
# specify the import file with metric data  
# use one column per variable, first row should contain variable name, following rows should  
# contain data, csv Files with multiple rows are supported, decimal values should be formatted  
# for example : 25.4  
metric_datafile='c:/mosaic/metric_multi_var.csv'
```

```
#specify output folder  
outputFolder="c:/mosaic/outputs/"
```

```
# set treshold to detect missings, default is 99900 (adjust this line to change this global value  
# but be careful)  
mosaic.setGlobalMissingTreshold(99900)
```

```
# create PDF-Files for vars,  
# uncomment to start report-generation  
#mosaic.createSimplePdfmetric(metric_datafile, outputFolder)
```

```
## Example 4: Generate pdf with graphs for a multiple metric dataframe, generates one pdf for  
# each column using the variable name for table headings
```

```
# load MOQA package  
library('MOQA')
```

```
# specify the metric dataframe with 1-n columns, here sample data is generated  
metric_data=data.frame(matrix(rnorm(20), nrow=10))
```

```
#specify output folder  
outputFolder="c:/mosaic/outputs/"
```

```
# set treshold to detect missings, default is 99900 (adjust this line to change this global value  
# but be careful)  
mosaic.setGlobalMissingTreshold(99900)
```

```
# create PDF-Files for vars,  
# uncomment to start report-generation  
#mosaic.createSimplePdfMetricDataframe(metric_data, outputFolder)
```

```
## Example 5: Import data from SPSS Export file generated by Toolbox for Research  
# and generate report for specific variable
```

```
# load MOQA package  
library('MOQA')
```

```
# specify import dat-file
importfile="c:/mosaic/import/all_in_one.dat"

# specify output folder
outputFolder="c:/mosaic/outputs/"

# import data
#importdata=mosaic.importToolboxSpssDataFile(importfile)

# generate report for a specific variable e.e. patient.age
# pass data as dataframe to use already given column name for a more descriptive output
#mosaic.createSimplePdfMetricDataframe(as.data.frame(importdata$ve_temperature_ear),outputFolder)
```

MOQA.env

MOQA.env

Description

local environment to handle MOQA-internal variables

Note

local environment

Author(s)

The MOSAIC Project, Martin Bialke

mosaic.addFootnote

addFootnote

Description

Add a Footnote to plot using footnotestring and current timestamp.

Usage

```
mosaic.addFootnote()
```

Note

Function call type: internal

Author(s)

The MOSAIC Project, Martin Bialke

mosaic.beginPlot	<i>beginPlot</i>
------------------	------------------

Description

begin plotting the configured graphs for loaded data and generate the output PDF-File.

Usage

```
mosaic.beginPlot(varname,outputfolder)
```

Arguments

varname	name of the studyitem or csv column loaded to plot graphs for.
outputfolder	name of the output folder

Note

Function call type: internal

Author(s)

The MOSAIC Project, Martin Bialke

mosaic.countValue	<i>countValue</i>
-------------------	-------------------

Description

Count occurrence of search value in data column

Usage

```
mosaic.countValue(searchvalue, data_column)
```

Arguments

searchvalue	value to search for
data_column	name of study item or data column to search in

Details

useful to find qualified missings in data column

Value

count of occurrences of specified value in specified data column

Note

Function call type: internal

Author(s)

The MOSAIC Project, Martin Bialke

```
mosaic.createSimplePdfCategorical  
    createSimplePdfCategorical
```

Description

Create simple PDF-file for categorical data

Usage

```
mosaic.createSimplePdfCategorical(inputfile, outputfolder)
```

Arguments

inputfile	path to input csv-file
outputfolder	path to output folder

Note

Function call type: user

Author(s)

The MOSAIC Project, Martin Bialke

Examples

```
# load MOQA package  
library('MOQA')  
  
# specify the import file with categorial data  
# first row has to contain variable names without special characters  
categorical_datafile='c:/mosaic/cat_single_var_en.csv'  
  
# specify output folder  
outputFolder='c:/mosaic/outputs/'  
  
# set treshold to detect missings, default is 99900 (adjust this line to change this global value,  
# but be careful)  
mosaic.setGlobalMissingTreshold(99900)
```

```
# set description of var
mosaic.setGlobalCodelist(c('1=yes', '2=no', '99996=not specified', '99997=not acquired'))

# create simple pdf file foreach variable column in categorial data file, uncomment to start
# report-generation
# mosaic.createSimplePdfCategorical(categorical_datafile,outputFolder)
```

```
mosaic.createSimplePdfCategoricalDataframe
      createSimplePdfCategoricalDataframe
```

Description

Create simple PDF-file for categorical data

Usage

```
mosaic.createSimplePdfCategoricalDataframe(df, outputfolder)
```

Arguments

df	dataframe
outputfolder	path to output folder

Note

Function call type: user

Author(s)

The MOSAIC Project, Martin Bialke

```
mosaic.createSimplePdfMetric
      createSimplePdfMetric
```

Description

Create simple PDF-file for metric data

Usage

```
mosaic.createSimplePdfMetric(inputfile, outputfolder)
```

Arguments

inputfile path to input csv file
outputfolder path to output folder

Note

Function call type: user

Author(s)

The MOSAIC Project, Martin Bialke

Examples

```
# load MOQA package
library('MOQA')

# specify the csv import file with metric data, use one column per variable
metric_datafile='c:/mosaic/metric_single_var.csv'

#specify output folder
outputFolder='c:/mosaic/output/'

#set missing threshold, optional, default is 99900
mosaic.setGlobalMissingTreshold(99900)

#set variable unit, optional
mosaic.setGlobalUnit('(cm)')

#set variable description, optional
mosaic.setGlobalDescription('Height')

#create PDF-report, uncomment to start report-generation
#mosaic.createSimplePdfMetric(metric_datafile, outputFolder)
```

```
mosaic.createSimplePdfMetricDataframe
      createSimplePdfMetricDataframe
```

Description

Create simple PDF-file for metric data

Usage

```
mosaic.createSimplePdfMetricDataframe(df, outputfolder)
```

Arguments

df path to input csv file
outputfolder path to output folder

Note

Function call type: user

Author(s)

The MOSAIC Project, Martin Bialke

Examples

```
# load MOQA package
library('MOQA')

# specify the metric dataframe with 1-n columns, here sample data is generated
metric_data=data.frame(matrix(rnorm(20), nrow=10))

#specify output folder
outputFolder="c:/mosaic/outputs/"

# set treshold to detect missings, default is 99900 (adjust this line to change this global value
# but be careful)
mosaic.setGlobalMissingTreshold(99900)

# create PDF-Files for vars,
# uncomment to start report-generation
#mosaic.createSimplePdfMetricDataframe(metric_data, outputFolder)
```

mosaic.finishPlot *finishPlot*

Description

Finish plotting, close PDF-file

Usage

```
mosaic.finishPlot()
```

Note

Function call type: internal

Author(s)

The MOSAIC Project, Martin Bialke

```
mosaic.generateCategoricalPlot  
    generateCategoricalPlot
```

Description

Generate Statistics and Create plots for categorical data

Usage

```
mosaic.generateCategoricalPlot(dataframe, varname)
```

Arguments

dataframe	data table with one or more columns (first row should contain column names/study item names/variable names)
varname	selected column/study item/variable to plot graph for

Note

Function call type: internal

Author(s)

The MOSAIC Project, Martin Bialke

```
mosaic.generateMetricPlots  
    generateMetricPlots
```

Description

calculate statistics and generate graphs for metric data

Usage

```
mosaic.generateMetricPlots(data_snippet, var_name)
```

Arguments

data_snippet	data table with one or more columns (first row should contain column names/study item names/variable names)
var_name	selected column/study item/variable to plot graph for

Note

Function call type: internal

Author(s)

The MOSAIC Project, Martin Bialke

`mosaic.generateMetricTablePlot`
generateMetricTablePlot

Description

Generate missing-ratio table for metric data (data, num of columns, column index, varname)

Usage

`mosaic.generateMetricTablePlot(data, num_of_columns, index, varname)`

Arguments

<code>data</code>	preprocessed data frame including 'valid value markers'
<code>num_of_columns</code>	absolute number of to be processed data columns
<code>index</code>	current column to be processed
<code>varname</code>	current name of variable to be used in table heading

Note

Function call type: internal

Author(s)

The MOSAIC Project, Martin Bialke

mosaic.getTimestamp *getTimestamp*

Description

get a current timestamp formatted as %Y_%m_%d_%H%M%S

Usage

mosaic.getTimestamp()

Value

timestamp, e.g. '2016_09_09_143458'

Note

Function call type: internal

Author(s)

The MOSAIC Project, Martin Bialke

mosaic.importToolboxSpssDataFile
importToolboxSpssDataFile

Description

load dat-file from 'toolbox for resarch' spss export with tab-separator with n columns to dataframe

Usage

mosaic.importToolboxSpssDataFile(filename)

Arguments

filename filename or a complete path to a dat-file

Note

Function call type: user

Author(s)

The MOSAIC Project, Martin Bialke

mosaic.info	<i>info</i>
-------------	-------------

Description

MOSAIC Information

Usage

```
mosaic.info()
```

Note

Function call type: user

Author(s)

The MOSAIC Project, Martin Bialke

mosaic.loadCsvData	<i>loadCsvData</i>
--------------------	--------------------

Description

Load data from csv-file is one or more columns. first row should contain the name of the study item, e.g. 'height'

Usage

```
mosaic.loadCsvData(filename)
```

Arguments

filename	filename or a complete path to a file
----------	---------------------------------------

Note

Function call type: user

Author(s)

The MOSAIC Project, Martin Bialke

mosaic.preProcessCategoricalData
preProcessCategoricalData

Description

Identify unique values in data column, get absolute, percentage and cumulative statistics

Usage

```
mosaic.preProcessCategoricalData(data)
```

Arguments

data data frame to be processed containing categorical data

Note

Function call type: internal

Author(s)

The MOSAIC Project, Martin Bialke

mosaic.preProcessMetricData
preProcessMetricData

Description

Pre-process metric data to allow missing-ratio table

Usage

```
mosaic.preProcessMetricData(data)
```

Arguments

data data frame to be preprocessed containing metric data

Note

Function call type: internal

Author(s)

The MOSAIC Project, Martin Bialke

```
mosaic.setGlobalCodelist  
    setGlobalCodelist
```

Description

set and parse a global code list for categorical data to be used in categorical plot descriptions

Usage

```
mosaic.setGlobalCodelist(coding)
```

Arguments

coding list of code and value pairs, see example for details

Note

Function call type: user

Author(s)

The MOSAIC Project, Martin Bialke

Examples

```
mosaic.setGlobalCodelist(c('1=yes','2=no', '99996=no information'))
```

```
mosaic.setGlobalDescription  
    setGlobalDescription
```

Description

Set Global Description for variable User (description) data. especially useful when plotting graphs for a selected data column

Usage

```
mosaic.setGlobalDescription(value)
```

Arguments

value string value to be used as study item description, e.g. 'waist circumference'

Note

Function call type: user

Author(s)

The MOSAIC Project, Martin Bialke

Examples

```
mosaic.setGlobalDescription('waist circumference')
```

```
mosaic.setGlobalMissingTreshold  
    setGlobalMissingTreshold
```

Description

Set Global Threshold for Missings , e.g. 99000

Usage

```
mosaic.setGlobalMissingTreshold(value)
```

Arguments

value threshold to separate missings from valid values

Note

Function call type: user

Author(s)

The MOSAIC Project, Martin Bialke

Examples

```
mosaic.setGlobalMissingTreshold(99000)
```

`mosaic.setGlobalUnit` *setGlobalUnit*

Description

Set Global Unit Label to be used User in graphs, e.g. '(cm)'

Usage

`mosaic.setGlobalUnit(value)`

Arguments

value unit string to be used in graphs

Note

Function call type: user

Author(s)

The MOSAIC Project, Martin Bialke

Examples

`mosaic.setGlobalUnit('(cm)')`

`outputPrefix` *outputPrefix*

Description

internal data variable

Note

internal data variable

Author(s)

The MOSAIC Project, Martin Bialke

qualifiedMissingsTreshold

qualifiedMissingsTreshold

Description

internal data variable

Note

internal data variable

Author(s)

The MOSAIC Project, Martin Bialke

Index

- * **MOQA**
 - MOQA, 5
- * **categorical**
 - mosaic.createSimplePdfCategorical, 12
 - mosaic.createSimplePdfCategoricalDataframe, 13
- * **count**
 - mosaic.countValue, 11
- * **csv**
 - mosaic.loadCsvData, 19
- * **data assurance**
 - MOQA, 5
- * **data quality**
 - MOQA, 5
- * **data**
 - mosaic.importToolboxSpssDataFile, 18
 - mosaic.loadCsvData, 19
- * **footnote**
 - mosaic.addFootnote, 10
- * **generate**
 - mosaic.createSimplePdfCategorical, 12
 - mosaic.createSimplePdfCategoricalDataframe, 13
 - mosaic.createSimplePdfMetric, 13
 - mosaic.createSimplePdfMetricDataframe, 14
- * **load**
 - mosaic.importToolboxSpssDataFile, 18
 - mosaic.loadCsvData, 19
- * **metric**
 - mosaic.createSimplePdfMetric, 13
 - mosaic.createSimplePdfMetricDataframe, 14
- * **package**
 - MOQA, 5
- * **pdf**
 - mosaic.createSimplePdfCategorical, 12
 - mosaic.createSimplePdfCategoricalDataframe, 13
 - mosaic.createSimplePdfMetric, 13
 - mosaic.createSimplePdfMetricDataframe, 14
- * **plot**
 - mosaic.beginPlot, 11
- * **search**
 - mosaic.countValue, 11
- * **spss**
 - mosaic.importToolboxSpssDataFile, 18
- * **timestamp**
 - mosaic.addFootnote, 10
 - mosaic.getTimestamp, 18
- * **toolbox for research**
 - mosaic.importToolboxSpssDataFile, 18
- * **version**
 - mosaic.info, 19
- codelist, 2
- footnoteString, 3
- label_boxplot, 4
- label_description, 4
- label_normalverteilung, 4
- label_qnormplot, 5
- label_unit, 5
- labelCounts, 3
- labelPercentage, 3
- MOQA, 5
- moqa (MOQA), 5
- MOQA.env, 10
- mosaic.addFootnote, 10

mosaic.beginPlot, [11](#)
mosaic.countValue, [11](#)
mosaic.createSimplePdfCategorical, [12](#)
mosaic.createSimplePdfCategoricalDataframe,
[13](#)
mosaic.createSimplePdfMetric, [13](#)
mosaic.createSimplePdfMetricDataframe,
[14](#)
mosaic.finishPlot, [15](#)
mosaic.generateCategoricalPlot, [16](#)
mosaic.generateMetricPlots, [16](#)
mosaic.generateMetricTablePlot, [17](#)
mosaic.getTimestamp, [18](#)
mosaic.importToolboxSpssDataFile, [18](#)
mosaic.info, [19](#)
mosaic.loadCsvData, [19](#)
mosaic.preProcessCategoricalData, [20](#)
mosaic.preProcessMetricData, [20](#)
mosaic.setGlobalCodelist, [21](#)
mosaic.setGlobalDescription, [21](#)
mosaic.setGlobalMissingTreshold, [22](#)
mosaic.setGlobalUnit, [23](#)

outputPrefix, [23](#)

qualifiedMissingsTreshold, [24](#)