

# Package ‘moodlequizR’

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**Type** Package

**Title** Easily Create Fully Randomized 'Moodle' Test Questions

**Version** 1.0.3

**Description** Routines to generate fully randomized 'moodle' quizzes. It also contains 12 examples and a 'shiny' app.

**License** GPL (>= 2)

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 7.2.1

**Depends** R (>= 2.10)

**Imports** base64, mvtnorm, shiny

**Suggests** rmarkdown, knitr

**VignetteBuilder** knitr

**NeedsCompilation** no

**Author** Wolfgang Rolke [aut, cre] (<<https://orcid.org/0000-0002-3514-726X>>)

**Maintainer** Wolfgang Rolke <[wolfgang.rolke@upr.edu](mailto:wolfgang.rolke@upr.edu)>

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gen.cont.table.data    *gen.cont.table.data*

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### Description

This function generates data for problems that use contingency tables

### Usage

```
gen.cont.table.data(n, A, B, tbl = FALSE, rho)
```

### Arguments

n	sample size
A	vector of values of first categorical variable
B	vector of values of second categorical variable
tbl	should output be a table
rho	correlation between A and B

### Value

A matrix with two columns

### Examples

```
gen.cont.table.data(10, c("a", "b"), 1:3, rho=0.9)
```

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genquiz	<i>genquiz</i>
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**Description**

This function generates an xml file for import into moodle.

**Usage**

```
genquiz(fun, k = 1, folder, problem = 0, Show = FALSE, ...)
```

**Arguments**

fun	name of the R routine that makes a quiz
k	how many quizzes?
folder	where is the .R located?
problem	(optional) which problem should be done?
Show	(optional) want to see what it looks like?
...	further arguments passed to fun

**Value**

None

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make.xml	<i>make.xml</i>
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**Description**

This function is a simple wrapper for genquiz. It reads file from folder and runs genquiz. The default is to then remove the quiz.

**Usage**

```
make.xml(fun, k = 1, folder, ...)
```

**Arguments**

fun	(unquoted) name of function that makes a quiz, or number of a quiz
k	how many quizzes?
folder	folder were fun.R is located
...	further arguments passed to fun

**Value**

None

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mc	<i>mc</i>
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### Description

This function generates the code for a multiple choice CLOZE question

### Usage

```
mc(options, w, which.true, pts = 1)
```

### Arguments

options	vector of choices
w	vector of weights
which.true	either which of the options gets 100 or a logical value TRUE=first option, False=second option
pts	how many points is question worth?

### Value

a list with the elements for qmc and amc

### Examples

```
mc(c("Yes", "No"), c(100, 0), 10)
```

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moodle.table	<i>moodle.table</i>
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### Description

This function takes a data frame or vector and generates the html code to display it in a moodle quiz

### Usage

```
moodle.table(x, DoRowNames = FALSE, DoBorder = FALSE, ncols = 10)
```

### Arguments

x	df or vector
DoRowNames	print row names?
DoBorder	print border?
ncols	for vectors, how many items per row?

**Value**

A character vector with html code

**Examples**

```
moodle.table(round(rnorm(50), 1))  
moodle.table(mtcars)
```

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moodleRexample1      *Info for moodleR example 1*

---

**Description**

A dataset containing the info to create the xml file for example 1

**Usage**

```
moodleRexample1
```

**Format**

A list

**quizname** example1

**category** MoodleR Examples / 1 ...

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moodleRexample10      *Info for moodleR example 10*

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**Description**

A dataset containing the info to create the xml file for example 10

**Usage**

```
moodleRexample10
```

**Format**

A list

**quizname** example10

**category** MoodleR Examples / 10 ...

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moodleRexample11

*Info for moodleR example 11*

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### **Description**

A dataset containing the info to create the xml file for example 11

### **Usage**

moodleRexample11

### **Format**

A list

**quizname** example11

**category** MoodleR Examples / 11 ...

---

moodleRexample12

*Info for moodleR example 12*

---

### **Description**

A dataset containing the info to create the xml file for example 12

### **Usage**

moodleRexample12

### **Format**

A list

**quizname** example12

**category** MoodleR Examples / 12 ...

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moodleRexample2

*Info for moodleR example 2*

---

### **Description**

A dataset containing the info to create the xml file for example 2

### **Usage**

moodleRexample2

### **Format**

A list

**quizname** example2

**category** MoodleR Examples / 2 ...

---

moodleRexample3

*Info for moodleR example 3*

---

### **Description**

A dataset containing the info to create the xml file for example 3

### **Usage**

moodleRexample3

### **Format**

A list

**quizname** example3

**category** MoodleR Examples / 3 ...

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moodleRexample4

*Info for moodleR example 4*

---

### **Description**

A dataset containing the info to create the xml file for example 4

### **Usage**

moodleRexample4

### **Format**

A list

**quizname** example4

**category** MoodleR Examples / 4 ...

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moodleRexample5

*Info for moodleR example 5*

---

### **Description**

A dataset containing the info to create the xml file for example 5

### **Usage**

moodleRexample5

### **Format**

A list

**quizname** example5

**category** MoodleR Examples / 5 ...



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moodleRexample6

*Info for moodleR example 6*

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### **Description**

A dataset containing the info to create the xml file for example 6

### **Usage**

moodleRexample6

### **Format**

A list

**quizname** example6

**category** MoodleR Examples / 6 ...

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moodleRexample7

*Info for moodleR example 7*

---

### **Description**

A dataset containing the info to create the xml file for example 7

### **Usage**

moodleRexample7

### **Format**

A list

**quizname** example7

**category** MoodleR Examples / 7 ...

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moodleRexample8

*Info for moodleR example 8*

---

### **Description**

A dataset containing the info to create the xml file for example 8

### **Usage**

moodleRexample8

### **Format**

A list

**quizname** example8

**category** MoodleR Examples / 8 ...

---

moodleRexample9

*Info for moodleR example 9*

---

### **Description**

A dataset containing the info to create the xml file for example 9

### **Usage**

moodleRexample9

### **Format**

A list

**quizname** example9

**category** MoodleR Examples / 9 ...

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nm	<i>nm</i>
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**Description**

This function generates the code for a numerical CLOZE question

**Usage**

```
nm(x, w, eps, ndigits, pts = 1)
```

**Arguments**

x	vector of values
w	list of weights
eps	vector of precision
ndigits	answers have to be rounded to ndigits, otherwise gives partial credit. Overrides eps
pts	how many points is question worth?

**Value**

a character vector with the code for a CLOZE question

**Examples**

```
nm(50)
nm(c(50, 40), w=c(100, 50))
```

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paste.data	<i>paste.data</i>
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**Description**

This function is used to read data from moodle into R

**Usage**

```
paste.data(sep = "", header = TRUE, is.table = FALSE)
```

**Arguments**

sep	symbol used for separation
header	does data have a header?
is.table	is data a table? Needed if all data is character.

**Value**

the data in the clipboard

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png64

*png64 Function*

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**Description**

This function creates a plot object that can be used in a moodle quiz

**Usage**

png64(plt)

**Arguments**

plt                    some graph object

**Value**

a character vector

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qamatrix

*qamatrix*

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**Description**

This function takes a matrix and generates the html code for questions and answers in a moodle quiz

**Usage**

qamatrix(tbl, points = 100, precision = 0, Border = TRUE, before, after)

**Arguments**

tbl	a matrix
points	Points for correct answers
precision	required
Border	should table have a border?
before	text that appears before question
after	text that appears after question

**Value**

a list for the qmc and amc portions of `genquiz`

**Examples**

```
p=matrix(1:6,2,3)
qamatrix(p)
qamatrix(p, c(100,80), c(0,0.1))
```

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<code>rcategorical</code>	<i>rcategorical</i>
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**Description**

This function generates data from a univariate or a bivariate discrete distribution

**Usage**

```
rcategorical(n, p)
```

**Arguments**

<code>n</code>	sample size
<code>p</code>	vector or matrix of values

**Value**

a vector or a matrix

**Examples**

```
p=1:3
names(p)=letters[1:3]
x=rcategorical(1000, p)
p=matrix(1:6, 2, 3)
dimnames(p)=list(c("A","B"), letters[1:3])
x=rcategorical(1000, p)
```

---

sa	<i>sa</i>
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**Description**

This function creates a text question for moodle in CLOZE format.

**Usage**

```
sa(txt, w = 100, caps = TRUE, pts = 1)
```

**Arguments**

txt	character vector with possible answers
w	vector of weights
caps	keep capital letters
pts	points for answers

**Value**

a character vector

**Examples**

```
sa("Los Angeles")  
sa(c("Los Angeles", "San Francisco"), w=c(100, 80))
```

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shinymoodlequizR	<i>shinymoodlequizR</i>
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**Description**

This function runs the moodlequizR shiny app

**Usage**

```
shinymoodlequizR()
```

**Value**

None

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