

# Package ‘checkdown’

September 27, 2025

**Type** Package

**Title** Check-Fields and Check-Boxes for 'rmarkdown'

**Version** 0.0.13

**Depends** R (>= 4.2.0)

**Description** Creates auto-grading check-fields and check-boxes for 'rmarkdown' or 'quarto' HTML. It can be used in class, when teacher share materials and tasks, so students can solve some problems and check their work. In contrast to the 'learnr' package, the 'checkdown' package works serverlessly without 'shiny'.

**Imports** markdown, htmltools, glue

**URL** <https://agricolamz.github.io/checkdown/>

**BugReports** <https://github.com/agricolamz/checkdown/issues>

**Suggests** rmarkdown, knitr

**License** GPL (>= 2)

**Encoding** UTF-8

**RoxygenNote** 7.3.3

**VignetteBuilder** knitr

**NeedsCompilation** no

**Author** George Moroz [aut, cre] (ORCID:  
<<https://orcid.org/0000-0003-1990-6083>>)

**Maintainer** George Moroz <[agricolamz@gmail.com](mailto:agricolamz@gmail.com)>

**Repository** CRAN

**Date/Publication** 2025-09-27 06:20:02 UTC

## Contents

|                          |   |
|--------------------------|---|
| check_hint . . . . .     | 2 |
| check_hints . . . . .    | 3 |
| check_question . . . . . | 4 |

|                         |   |
|-------------------------|---|
| insert_audio . . . . .  | 5 |
| insert_images . . . . . | 6 |
| insert_score . . . . .  | 7 |

|              |          |
|--------------|----------|
| <b>Index</b> | <b>8</b> |
|--------------|----------|

---

|            |                                    |
|------------|------------------------------------|
| check_hint | <i>Create hint for 'rmarkdown'</i> |
|------------|------------------------------------|

---

**Description**

Create hint for 'rmarkdown'

**Usage**

```
check_hint(  
  hint_text,  
  hint_title = "Click here to see/close the hint",  
  type = c("onclick", "onmouseover", "ondblclick"),  
  hint_id = sample(1e+05:1, 1)  
)
```

**Arguments**

|            |                                                                                                      |
|------------|------------------------------------------------------------------------------------------------------|
| hint_text  | hint paragraph text; can contain markdown                                                            |
| hint_title | click paragraph text; can contain markdown                                                           |
| type       | character that describes behavior of the hint. Possible values are: onclick, onmouseover, ondblclick |
| hint_id    | unique identifier of the question                                                                    |

**Value**

returns the html tags and javascript code

**Author(s)**

George Moroz <agricolamz@gmail.com>

**Examples**

```
check_hint("You can use argument `echo=FALSE`!")
```

---

`check_hints`*Create list of hints for 'rmarkdown'*

---

**Description**

Create list of hints for 'rmarkdown'

**Usage**

```
check_hints(  
  hint_text,  
  hint_title = "Click here to see/close the hint",  
  hint_title_prefix = "",  
  hint_title_suffix = "",  
  list_title = "Click here to see/close the list of hints",  
  type = c("onclick", "onmouseover", "ondblclick")  
)
```

**Arguments**

|                                |                                                                                                                                                |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>hint_text</code>         | hint paragraph texts; can contain markdown                                                                                                     |
| <code>hint_title</code>        | hint title texts; can contain markdown                                                                                                         |
| <code>hint_title_prefix</code> | string that added before each <code>hint_title</code>                                                                                          |
| <code>hint_title_suffix</code> | string that added after each <code>hint_title</code>                                                                                           |
| <code>list_title</code>        | unique identifier for each hint                                                                                                                |
| <code>type</code>              | character that describes behavior of the hints. Possible values are: <code>onclick</code> , <code>onmouseover</code> , <code>ondblclick</code> |

**Value**

returns the html tags and javascript code

**Author(s)**

George Moroz <agricolamz@gmail.com>

**Examples**

```
check_hints(1:4)
```

---

|                |                                                     |
|----------------|-----------------------------------------------------|
| check_question | Create check-fields and check-boxes for 'rmarkdown' |
|----------------|-----------------------------------------------------|

---

## Description

Create check-fields and check-boxes for 'rmarkdown'

## Usage

```
check_question(
  answer,
  right = "Correct",
  wrong = "I have a different answer",
  options = NULL,
  type = NULL,
  button_label = "check",
  alignment = NULL,
  placeholder = "",
  random_answer_order = FALSE,
  title = NULL,
  width_of_in_order = paste0(round(1/length(answer) * 85), "%"),
  height_of_in_order = "60px",
  style_of_in_order = "padding:5px;border: 1px solid #aaaaaa; display: inline-block;",
  q_id = sample(1:1e+05, 1)
)
```

## Arguments

|                     |                                                                                                                                                                                                                                             |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| answer              | correct answer (can be a double or a string). It is possible to put here a vector of several answers.                                                                                                                                       |
| right               | form reaction on right answer                                                                                                                                                                                                               |
| wrong               | form reaction on wrong answer                                                                                                                                                                                                               |
| options             | vector of values for the selection list type                                                                                                                                                                                                |
| type                | character that defines type of the list. Possible values: text, select, radio, checkbox, in_order                                                                                                                                           |
| button_label        | character value that will be displayed on the button                                                                                                                                                                                        |
| alignment           | character argument for options' alignment: vertical or horizontal                                                                                                                                                                           |
| placeholder         | character that defines a short hint that describes the expected value of an input field. This works with the text input type only.                                                                                                          |
| random_answer_order | logical argument that denotes whether answers should be shuffled, when the type value is select, radio or checkbox                                                                                                                          |
| title               | character value that will be displayed as a question title. It is possible to put there the question. You can put markdown markup. Since this argument wraps the form contents with fieldset tags, you can redefine it appearance with CSS. |

width\_of\_in\_order  
character with some values for width of the boxes, when the type value is in\_order. Possible values: "30px", "20%"

height\_of\_in\_order  
character with some values for height of the boxes, when the type value is in\_order. Possible values: "30px", "20%"

style\_of\_in\_order  
character that contains CSS style for the div boxes, when the type value is in\_order

q\_id  
unique identifier of the question

**Value**

returns the html tags and javascript code

**Author(s)**

George Moroz <agricolamz@gmail.com>

**Examples**

```
check_question(answer = 5)
```

---

insert\_audio

---

Insert audio

---

**Description**

Insert audio

**Usage**

```
insert_audio(
  src,
  controls = TRUE,
  autoplay = FALSE,
  loop = FALSE,
  muted = FALSE,
  preload = c("none", "auto", "metadata")
)
```

**Arguments**

|          |                                                                                                                                                            |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| src      | character. It specifies the location (URL) of the audio file.                                                                                              |
| controls | logical. When TRUE, it specifies that audio controls should be displayed.                                                                                  |
| autoplay | logical. When TRUE, the audio will automatically start playing as soon as it can do so without stopping.                                                   |
| loop     | logical. When TRUE, it specifies that the audio will start over again, every time it is finished.                                                          |
| muted    | logical. When TRUE, it specifies that the audio output should be muted.                                                                                    |
| preload  | character. It specifies if and how the author thinks that the audio file should be loaded when the page loads. Possible values are none, auto and metadata |

**Value**

returns set of html tags

**Author(s)**

George Moroz <agricolamz@gmail.com>

**Examples**

```
insert_audio("1.wav")
```

---

insert\_images

---

*Insert multiple images into questions and hints*


---

**Description**

Insert multiple images into questions and hints

**Usage**

```
insert_images(
  src,
  alt = "image",
  image_width = "100%",
  image_height = "100%"
)
```

**Arguments**

|              |                                                                        |
|--------------|------------------------------------------------------------------------|
| src          | image file names                                                       |
| alt          | alternate texts for an image in case If a browser cannot find an image |
| image_width  | image widths. Could be absolute value in pixels or percentage.         |
| image_height | image heights. Could be absolute value in pixels or percentage.        |

**Value**

returns set of html tags

**Author(s)**

George Moroz <agricolamz@gmail.com>

**Examples**

```
insert_images(c("1.png", "2.png"))
```

---

insert\_score

*Create an overall sum score for all correct tasks in the document*

---

**Description**

Create an overall sum score for all correct tasks in the document

**Usage**

```
insert_score()
```

**Value**

returns the html tags and javascript code

**Author(s)**

George Moroz <agricolamz@gmail.com>

# Index

check\_hint, [2](#)  
check\_hints, [3](#)  
check\_question, [4](#)  
  
insert\_audio, [5](#)  
insert\_images, [6](#)  
insert\_score, [7](#)