

# Package ‘mailmerge’

September 20, 2021

**Title** Mail Merge Using R Markdown Documents and 'gmailr'

**Version** 0.2.2

**Description** Perform a mail merge (mass email) using the message defined in markdown, the recipients in a csv, and gmail as the mailing engine. With this package you can parse markdown documents as the body of email, and the 'yaml' header to specify the subject line of the email. Any '{}' braces in the email will be encoded with 'glue::glue()'. You can preview the email in the RStudio viewer pane, and send (draft) email using 'gmailr'.

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**URL** <https://andrie.github.io/mailmerge/>,  
<https://github.com/andrie/mailmerge>

**BugReports** <https://github.com/andrie/mailmerge/issues>

**Depends** R (>= 3.3)

**Imports** commonmark, gmailr, rstudioapi, googledrive, rmarkdown, dplyr,  
glue, googlesheets4, magrittr, withr, purrr, utils, fs,  
lifecycle, shiny, miniUI

**Suggests** spelling, covr, knitr, testthat (>= 2.1.0), here, mockery,  
readr

**VignetteBuilder** knitr

**RdMacros** lifecycle

**Encoding** UTF-8

**RoxygenNote** 7.1.2

**Language** en-US

**Config/testthat/edition** 3

**NeedsCompilation** no

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**Repository** CRAN

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mail_merge	<i>Merges data into an email and send.</i>
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### Description

#### [Experimental]

Merges columns from a data frame into a markdown document using the `glue::glue_data()` function. The markdown can contain a yaml header for subject and cc line.

Note that only 'gmail' is supported at the moment, via `gmailr::gm_send_message`.

Before using `mail_merge()`, you must be authenticated to the gmail service. Use `gmailr::gm_auth()` to authenticate prior to starting the mail merge.

### Usage

```
mail_merge(
  data,
  message,
  to_col = "email",
  send = c("preview", "draft", "immediately"),
  confirm = FALSE,
  sleep_preview = 1,
  sleep_send = 0.1
)
```

### Arguments

data	A data frame or tibble with all the columns that should be glued into the message. Substitution is performed using <code>glue::glue_data()</code>
message	A list with components <code>yaml</code> and <code>body</code> . You can use <code>mm_read_message()</code> or <code>mm_read_message_googledoc()</code> to construct a message in this format.
to_col	The name of the column in <code>data</code> that contains the email address to send the message to.
send	A character string, one of: <ul style="list-style-type: none"> <li>"preview" : displays message in viewer without sending mail</li> <li>"draft" : writes message into "drafts" folder on gmail</li> <li>"immediately" : sends email</li> </ul>

confirm	If TRUE sends email without additional confirmation. If FALSE asks for confirmation before sending.
sleep_preview	If send == "preview" the number of seconds to sleep between each preview. See also <a href="#">preview_mailmerge</a>
sleep_send	If send == "immediately" the number of seconds to sleep between each email send (to prevent gmail API 500 errors).

### Value

Returns a list for every message, consisting of:

- msg: The message in mime format
- id: The gmailr response id
- type: preview, draft or sent
- success: TRUE if the message was sent successfully

### See Also

[preview\\_mailmerge](#)

### Examples

```
## ---- input-data -----
dat <- data.frame(
  email      = c("friend@example.com", "foe@example.com"),
  first_name = c("friend", "foe"),
  thing      = c("something good", "something bad"),
  stringsAsFactors = FALSE
)

## ---- markdown-message -----

msg <- '
---
subject: "**Hello, {first_name}**"
---

Hi, **{first_name}**

I am writing to tell you about **{thing}**.

{if (first_name == "friend") "Regards" else ""}

Me
'

## ---- mail-merge -----
```

```
dat %>%
  mail_merge(msg)

if (interactive()) {
  dat %>%
    mail_merge(msg) %>%
    print()
}

## ---- display shiny gadget -----

if (interactive()) {
  dat %>%
    mail_merge(msg) %>%
    preview_mailmerge()
}
```

---

mm\_read\_googledoc      *Read a markdown file from google drive*

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## Description

Read a markdown file from google drive

## Usage

```
mm_read_googledoc(id)
```

## Arguments

id                      Unique Google Drive identifier, passed to [googledrive::drive\\_download](#)

## Value

the imported document

A list of character strings, containing the content of the google doc

---

mm_read_message	<i>Parse a markdown document into yaml and body components.</i>
-----------------	---

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**Description**

You can use this to construct the message argument of [mail\\_merge\(\)](#).

**Usage**

```
mm_read_message(txt)
```

**Arguments**

txt	A file in markdown format
-----	---------------------------

**Value**

A list with components yaml and body

**See Also**

Other parsing functions: [mm\\_read\\_message\\_googledoc\(\)](#)

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mm_read_message_googledoc	<i>Parse the email template inside a markdown document on google drive.</i>
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---

**Description**

You can use this to construct the message argument of [mail\\_merge\(\)](#).

**Usage**

```
mm_read_message_googledoc(id)
```

**Arguments**

id	Unique Google Drive identifier, passed to <a href="#">googledrive::drive_download</a>
----	---

**Value**

A list of character strings

**See Also**

Other parsing functions: [mm\\_read\\_message\(\)](#)

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```
preview_mailmerge      Preview mailmerge as shiny gadget in RStudio preview pane.
```

---

**Description****[Experimental]****Usage**

```
preview_mailmerge(x)
```

**Arguments**

x                    mailmerge\_preview object, from [mail\\_merge](#)

**Value**

A 'shiny' gadget, see also [shiny::runGadget](#)

**See Also**

[mail\\_merge](#)

**Examples**

```
## ---- input-data -----
dat <- data.frame(
  email      = c("friend@example.com", "foe@example.com"),
  first_name = c("friend", "foe"),
  thing      = c("something good", "something bad"),
  stringsAsFactors = FALSE
)

## ---- markdown-message -----

msg <- '
---
subject: Hello, {first_name}
---

Hi, {first_name}

I am writing to tell you about {thing}.

{if (first_name == "friend") "Regards" else ""}

Me
'
```

```
## ---- display shiny gadget -----  
  
if (interactive()) {  
  dat %>%  
    mail_merge(msg) %>%  
    preview_mailmerge()  
}
```

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