

Package ‘sendmailR’

April 12, 2026

Version 1.4-1

Title Send Email Using R

Description Package contains a simple SMTP client with minimal dependencies which provides a portable solution for sending email, including file attachments and inline html reports, from within R. SMTP Authentication and SSL/STARTTLS is implemented using curl.

URL <https://github.com/olafmersmann/sendmailR>

BugReports <https://github.com/olafmersmann/sendmailR/issues>

Depends R (>= 3.0.0)

Imports base64enc

Suggests curl (>= 4.0), knitr, rmarkdown, htmltools

License GPL-2

Encoding UTF-8

RoxygenNote 7.3.3

VignetteBuilder knitr

NeedsCompilation no

Author Olaf Mersmann [aut, cre] (ORCID: <https://orcid.org/0000-0002-7720-4939>),
Quinn Weber [ctb],
Marius Barth [ctb] (ORCID: <https://orcid.org/0000-0002-3421-6665>),
Are Edvardsen [ctb] (ORCID: <https://orcid.org/0000-0002-5210-3656>),
Alexander Bartel [ctb] (ORCID: <https://orcid.org/0000-0002-1280-6138>)

Maintainer Olaf Mersmann <olafm@p-value.net>

Repository CRAN

Date/Publication 2026-04-12 05:10:02 UTC

Contents

mime_part	2
mime_part.character	3
mime_part.data.frame	3

mime_part.default	4
mime_part.ggplot	5
mime_part.matrix	5
mime_part.trellis	6
mime_part_html	6
sendmail	7
sendmail_options	9

Index	10
--------------	-----------

mime_part	<i>Create a MIME part</i>
-----------	---------------------------

Description

Create a MIME part

Usage

```
mime_part(x, name, ...)
```

Arguments

x	Object to include
name	Name of mime part. Usually the filename of the attachment as displayed by the e-mail client.
...	Possible further arguments for mime_part implementations.

Value

An S3 mime_part object.

See Also

[mime_part.character](#), [mime_part_html](#), [mime_part.data.frame](#), [mime_part.matrix](#), [mime_part.ggplot](#), [mime_part.trellis](#)

mime_part.character *Create an inline character MIME Part*

Description

Create a MIME part from a character string. If the string matches a filename, a MIME part containing that file is returned instead.

Usage

```
## S3 method for class 'character'  
mime_part(x, name, type, flowed = FALSE, ...)
```

Arguments

x	Character string, possibly a filename.
name	Name of attachment.
type	Content type of inline text. Defaults to "text/plain" for character strings and to "application/octet-stream" for files.
flowed	Should "format=flowed" be added to the content header.
...	Ignored.

Value

An S3 mime_part object.

See Also

[mime_part_html](#) for adding inline HTML

mime_part.data.frame *Create a MIME part from a data.frame.*

Description

Create a MIME part from a data.frame.

Usage

```
## S3 method for class 'data.frame'  
mime_part(x, name = deparse(substitute(x)), filename_extension = ".txt", ...)
```

Arguments

x	A data.frame.
name	Basename of file attachment that is generated.
filename_extension	Filename extension (i.e., the suffix) to be used for the attached file.
...	Ignored.

Value

An S3 mime_part object.

mime_part.default	<i>Default MIME part method</i>
-------------------	---------------------------------

Description

Creates a string representation of the object x using dput. This representation is then turned into a file attachment.

Usage

```
## Default S3 method:
mime_part(x, name, ...)
```

Arguments

x	R object
name	Filename used for attachment (sans the .R extension)
...	Ignored.

Value

An S3 mime_part object.

mime_part.ggplot *Creates a MIME part from a ggplot2 plot object*

Description

Writes a PDF file of the plot defined by x and turns this PDF file into a file attachment.

Usage

```
## S3 method for class 'ggplot'  
mime_part(x, name = deparse(substitute(x)), device = pdf, ...)
```

Arguments

x	A ggplot object
name	Name of attachment (sans .pdf extension).
device	Graphics device used to render the plot. Defaults to pdf.
...	Ignored.

Value

An S3 mime_part object.

mime_part.matrix *Create a MIME part from a matrix.*

Description

Create a MIME part from a matrix.

Usage

```
## S3 method for class 'matrix'  
mime_part(x, name = deparse(substitute(x)), ...)
```

Arguments

x	Matrix
name	Basename of file attachment that is generated.
...	Ignored.

Value

An S3 mime_part object

mime_part.trellis	<i>Creates a MIME part from a trellis plot object</i>
-------------------	---

Description

Writes a PDF file of the plot defined by `x` and turns this PDF file into a file attachment.

Usage

```
## S3 method for class 'trellis'
mime_part(x, name = deparse(substitute(x)), device = pdf, ...)
```

Arguments

<code>x</code>	A trellis (lattice) object
<code>name</code>	Name of attachment (sans .pdf extension).
<code>device</code>	Graphics device used to render the plot. Defaults to pdf.
<code>...</code>	Ignored.

Value

An S3 mime_part object.

mime_part_html	<i>Create an inline HTML MIME Part</i>
----------------	--

Description

Create a MIME part from a character string containing HTML. If the string matches a filename the file is read and inserted as an inline character MIME part.

Usage

```
mime_part_html(x, ...)
```

Arguments

<code>x</code>	Character string, vector/list of character strings or path to html file.
<code>...</code>	Ignored.

Value

An S3 mime_part object.

Examples

```
## Not run:
sendmail(
  from="from@example.org",
  to="to1@example.org",
  subject="inline HTML",
  msg=mime_part_html("Hello<br>World"),
  control=list(smtpServer="ASPMX.L.GOOGLE.COM")
)

sendmail(
  from="from@example.org",
  to="to1@example.org",
  subject="inline HTML",
  msg=mime_part_html("out/report.html"),
  control=list(smtpServer="ASPMX.L.GOOGLE.COM")
)

## End(Not run)
```

sendmail

Send mail from within R

Description

Simplistic sendmail utility for R. Uses SMTP to submit a message to a local SMTP server.

Usage

```
sendmail(
  from,
  to,
  subject,
  msg,
  cc,
  bcc,
  ...,
  engine = c("internal", "curl", "debug"),
  headers = list(),
  control = list(),
  engineopts = list()
)
```

Arguments

from From whom the mail message is (RFC2822 style address).
to Recipient of the message (vector of valid RFC2822 style addresses).

subject	Subject line of message.
msg	Body text of message or a list containing mime_part objects.
cc	Carbon-copy recipients (vector of valid RFC2822 style addresses).
bcc	Blind carbon-copy recipients (vector of valid RFC2822 style addresses).
...	...
engine	One of: <ul style="list-style-type: none"> • "internal" for the internal smtp transport (default). • "curl" for the use of curl for transport. Enable if you need STARTTLS/SSL and/or SMTP authentication. See <code>curl::send_mail</code>. • "debug" sendmail returns a RFC2822 formatted email message without sending it.
headers	Any other headers to include.
control	List of SMTP server settings. Valid values are the possible options for sendmail_options .
engineopts	Options passed to curl if using the curl backend. <ul style="list-style-type: none"> • For authentication pass a list with username and password. • <code>use_ssl</code> defaults to "force" if unset. • For available options run <code>curl::curl_options</code>.

See Also

[mime_part](#) for a way to add attachments.

`curl::send_mail` for curl SMTP URL specification.

Examples

```
## Not run:
from <- sprintf("<sendmailR@\\%s>", Sys.info()[4])
to <- "<olafm@datensplitter.net>"
subject <- "Hello from R"
body <- list("It works!", mime_part(iris))
sendmail(from, to, subject, body,
         control=list(smtpServer="ASPMX.L.GOOGLE.COM"))

sendmail(from="from@example.org",
         to=c("to1@example.org", "to2@example.org"),
         subject="SMTP auth test",
         msg=mime_part("This message was send using sendmailR and curl."),
         engine = "curl",
         engineopts = list(username = "foo", password = "bar"),
         control=list(smtpServer="smtp://smtp.gmail.com:587", verbose = TRUE)
)

## End(Not run)
```

sendmail_options *Set package specific options.*

Description

Specify global sendmail options so that subsequent calls to `sendmail()` do not have to set them in the control argument.

Usage

```
sendmail_options(...)
```

```
sendmailOptions(...)
```

Arguments

... Any options can be defined, using `name=value` or by passing a list of such tagged values. However, only the ones below are used in base sendmailR.

Details

List of options:

smtpServer SMTP server to contact. This can either be the mail server responsible for the destination addresses domain or a smarthost provided by your ISP or institution. SMTP AUTH is currently unsupported.

smtpPort SMTP port to use. Usually 25 but some institutions require the use of the submission service (port 587).

verbose Show detailed information about message submission. Useful for debugging.

Value

For `sendmail_options()`, a list of all set options sorted by name. For `sendmail_options(name)`, a list of length one containing the set value, or 'NULL' if it is unset. For uses setting one or more options, a list with the previous values of the options changed (returned invisibly).

Author(s)

Olaf Mersmann <olafm@datensplitter.net>

Index

* **utilities**

[sendmail](#), [7](#)

[curl_options](#), [8](#)

[mime_part](#), [2](#), [8](#)

[mime_part.character](#), [2](#), [3](#)

[mime_part.data.frame](#), [2](#), [3](#)

[mime_part.default](#), [4](#)

[mime_part.ggplot](#), [2](#), [5](#)

[mime_part.matrix](#), [2](#), [5](#)

[mime_part.trellis](#), [2](#), [6](#)

[mime_part_html](#), [2](#), [3](#), [6](#)

[send_mail](#), [8](#)

[sendmail](#), [7](#)

[sendmail_options](#), [8](#), [9](#)

[sendmailOptions \(sendmail_options\)](#), [9](#)