

# Package ‘sendmailR’

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**Version** 1.4-0

**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** 7.2.3

**VignetteBuilder** knitr

**NeedsCompilation** no

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## 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         |
| <b>Index</b>                | <b>10</b> |

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

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**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](#)

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`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 = "text/plain", flowed = FALSE, ...)
```

### Arguments

|                     |                                                        |
|---------------------|--------------------------------------------------------|
| <code>x</code>      | Character string, possibly a filename.                 |
| <code>name</code>   | Name of attachment.                                    |
| <code>type</code>   | Content type of inline text. Defaults to "text/plain". |
| <code>flowed</code> | Should "format=flowed" be added to the content header. |
| <code>...</code>    | 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.

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|                   |                                 |
|-------------------|---------------------------------|
| 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 | <i>Creates a MIME part from a ggplot2 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 '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 | <i>Create a MIME part from a matrix.</i> |
|------------------|------------------------------------------|

---

**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

---

|                                |                                                       |
|--------------------------------|-------------------------------------------------------|
| <code>mime_part.trellis</code> | <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.

---

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

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### 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 <a href="#">mime_part</a> 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"> <li>• "internal" for the internal smtp transport (default).</li> <li>• "curl" for the use of curl for transport. Enable if you need STARTTLS/SSL and/or SMTP authentication. See <a href="#">curl::send_mail</a>.</li> <li>• "debug" sendmail returns a RFC2822 formatted email message without sending it.</li> </ul> |
| headers    | Any other headers to include.                                                                                                                                                                                                                                                                                                                                     |
| control    | List of SMTP server settings. Valid values are the possible options for <a href="#">sendmail_options</a> .                                                                                                                                                                                                                                                        |
| engineopts | Options passed to curl if using the curl backend. <ul style="list-style-type: none"> <li>• For authentication pass a list with username and password.</li> <li>• use_ssl defaults to "force" if unset.</li> <li>• For available options run <a href="#">curl::curl_options</a>.</li> </ul>                                                                        |

## 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 | <i>Set package specific options.</i> |
|------------------|--------------------------------------|

---

**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:

- `smtpServerSMTP` 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.
- `smtpPortSMTP` port to use. Usually 25 but some institutions require the use of the submission service (port 587).
- `verboseShow` 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).

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# 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](#)