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

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VignetteBuilder knitr

NeedsCompilation no

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R topics documented:

`mime_part` *Create a MIME part*

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

Arguments

x	Character string, possibly a filename.
name	Name of attachment.
type	Content type of inline text. Defaults to "text/plain".
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.

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mime_part.default *Default MIME part method*

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 *Creates a MIME part from a trellis 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 'trellis'
mime_part(x, name = deparse(substitute(x)), device = pdf, ...)
```

Arguments

x	A trellis (lattice) 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_html *Create an inline HTML MIME Part*

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

x	Character string, vector/list of character strings or path to html file.
...	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: • "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 curl::send_mail. • "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. • For authentication pass a list with username and password. • use_ssl defaults to "force" if unset. • For available options run curl::curl_options.

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:

- 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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