

Package ‘emayili’

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BugReports <https://github.com/datawookie/emayili/issues>

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R topics documented:

address	2
append	3
append.envelope	4

as.address	4
as.character.envelope	5
as.character.MIME	5
as.character.vctrs_address	6
attachment	6
bcc	7
cc	8
compare	8
compliant	9
display	10
domain	10
envelope	11
format.vctrs_address	12
from	12
header	13
html	13
local	15
new_address	15
parties	16
print.envelope	16
print.vctrs_address	17
qp_decode	18
qp_encode	18
raw	19
render	19
reply	21
sender	21
server	22
subject	24
text	25
to	26
Index	27

address

Email Address

Description

Create an address object which represents an email address.

Usage

```
address(email = NA, display = NA, local = NA, domain = NA, normalise = TRUE)
```

Arguments

email	Email address.
display	Display name.
local	Local part of email address.
domain	Domain part of email address.
normalise	Whether to try to normalise address to RFC-5321 requirements.

Details

Implemented as an **S3 vector class**.

Value

An address object, representing an email address.

Examples

```
address("gerry@gmail.com")
address("gerry@gmail.com", "Gerald")
address(
  c("gerry@gmail.com", "alice@yahoo.com", "jim@aol.com"),
  c("Gerald", "Alice", NA)
)
```

append	<i>Append child to a MIME element</i>
--------	---------------------------------------

Description

This is a generic function.

Usage

```
append(x, child)
```

Arguments

x	MIME element
child	Child MIME element

append.envelope *Append children to message*

Description

Append children to message

Usage

```
## S3 method for class 'envelope'  
append(x, child)
```

Arguments

x	Message object
child	A child to be appended

as.address *Create an address object*

Description

Create an address object

Usage

```
as.address(addr)
```

Arguments

addr	An email address.
------	-------------------

Value

An address object.

Examples

```
as.address("gerry@gmail.com")  
as.address("Gerald <gerry@gmail.com>")  
as.address(c("Gerald <gerry@gmail.com>", "alice@yahoo.com", "jim@aol.com"))  
as.address("Gerald <gerry@gmail.com>, alice@yahoo.com, jim@aol.com")  
as.address(c("Gerald <gerry@gmail.com>", "alice@yahoo.com, jim@aol.com"))
```

as.character.envelope *Create formatted message.*

Description

Accepts a message object and formats it as a MIME document.

Usage

```
## S3 method for class 'envelope'  
as.character(x, ...)
```

Arguments

x A message object.
... Further arguments passed to or from other methods.

Value

A formatted message object.

as.character.MIME *Convert MIME object to character vector*

Description

Convert MIME object to character vector

Usage

```
## S3 method for class 'MIME'  
as.character(x, ...)
```

Arguments

x MIME object
... Further arguments passed to or from other methods.

```
as.character.vctrs_address
```

Convert address object to character

Description

Convert address object to character

Usage

```
## S3 method for class 'vctrs_address'
as.character(x, ...)
```

Arguments

<code>x</code>	A vector of address objects.
<code>...</code>	Further arguments passed to or from other methods.

Value

A character vector.

```
attachment
```

Add attachments to a message object

Description

Add attachments to a message object

Usage

```
attachment(msg, path, name = NA, type = NA, cid = NA)
```

Arguments

<code>msg</code>	A message object.
<code>path</code>	Path to file.
<code>name</code>	Name to be used for attachment (defaults to base name of path).
<code>type</code>	MIME type or <i>NA</i> , which will result in a guess based on file extension.
<code>cid</code>	Content-ID or <i>NA</i> .

Value

A message object.

Examples

```
library(magrittr)

path_mtcars <- tempfile(fileext = ".csv")
path_scatter <- tempfile(fileext = ".png")
path_cats <- system.file("cats.jpg", package = "emayili")

write.csv(mtcars, path_mtcars)

png(path_scatter)
plot(1:10)
dev.off()

msg <- envelope() %>%
  attachment(path_mtcars) %>%
  # This attachment will have file name "cats.jpg".
  attachment(path_cats, name = "cats.jpg", type = "image/jpeg") %>%
  attachment(path_scatter, cid = "scatter")

file.remove(path_scatter, path_mtcars)
```

bcc

Add Bcc field to message

Description

Add Bcc field to message

Usage

```
bcc(msg, ...)
```

Arguments

msg	A message object.
...	Email addresses.

Value

A message object.

See Also

[to](#), [cc](#), [from](#), [sender](#), [reply](#) and [subject](#)

Examples

```
msg <- envelope()
bcc(msg, "bob@gmail.com", "alice@yahoo.com")
bcc(msg, c("bob@gmail.com", "alice@yahoo.com"))
```

cc *Add Cc field to message*

Description

Add Cc field to message

Usage

```
cc(msg, ...)
```

Arguments

msg	A message object.
...	Email addresses.

Value

A message object.

See Also

[to](#), [bcc](#), [from](#), [sender](#), [reply](#) and [subject](#)

Examples

```
msg <- envelope()  
cc(msg, "bob@gmail.com", "alice@yahoo.com")  
cc(msg, c("bob@gmail.com", "alice@yahoo.com"))
```

compare *Compare vectors*

Description

Returns TRUE wherever elements are the same (including NA), and FALSE everywhere else.

Usage

```
compare(lhs, rhs)
```

Arguments

lhs	LHS of operation.
rhs	RHS of operation.

Value

A Boolean value.

<code>compliant</code>	<i>Tests whether an email address is syntactically correct</i>
------------------------	--

Description

Checks whether an email address conforms to the **syntax rules**.

Usage

```
compliant(addr, error = FALSE)
```

Arguments

<code>addr</code>	An email address.
<code>error</code>	Whether to create an error if not compliant.

Details

An email address may take either of the following forms:

- `local@domain` or
- `Display Name <local@domain>`.

Value

A Boolean.

Examples

```
compliant("alice@example.com")  
compliant("alice?example.com")
```

display	<i>Extract display name</i>
---------	-----------------------------

Description

Extracts the display name from an email address.

Usage

```
display(addr)
```

Arguments

addr An address object.

Value

The display name or NA.

Examples

```
gerry <- as.address("Gerald <gerry@gmail.com>")
display(gerry)
```

domain	<i>Extract domain of email address</i>
--------	--

Description

Extract domain of email address

Usage

```
domain(addr)
```

Arguments

addr An address object.

Value

A character vector.

Examples

```
domain("alice@example.com")
```

envelope	<i>Create a message.</i>
----------	--------------------------

Description

Create a message.

Usage

```
envelope(  
  to = NULL,  
  from = NULL,  
  cc = NULL,  
  bcc = NULL,  
  reply = NULL,  
  subject = NULL,  
  text = NULL,  
  html = NULL  
)
```

Arguments

to	See to()
from	See from()
cc	See cc()
bcc	See bcc()
reply	See reply()
subject	See subject()
text	See text()
html	See html()

Value

A message object.

See Also

[subject](#), [from](#), [to](#), [cc](#), [bcc](#) and [reply](#)

Examples

```
# Create an (empty) message object.  
msg <- envelope()  
  
# Create a complete message object.  
envelope(  
  to = "to@domain.com",  
  from = "from@domain.com",  
  cc = "cc@domain.com",  
  bcc = "bcc@domain.com",  
  reply = "reply@domain.com",  
  subject = "subject",  
  text = "text",  
  html = "html"
```

```

to = "bob@gmail.com",
from = "craig@gmail.com",
cc = "alex@gmail.com",
bcc = "shannon@gmail.com",
reply = "craig@yahoo.com",
subject = "Hiya!",
text = "Hi Bob, how are you?"
)

```

`format.vctrs_address` *Encode email addresses in a common format*

Description

Encode email addresses in a common format

Usage

```

## S3 method for class 'vctrs_address'
format(x, ...)

```

Arguments

`x` A vector of address objects.

`...` Further arguments passed to or from other methods.

Value

A character vector.

`from` *Add From field to message*

Description

Add From field to message

Usage

```

from(msg, from = NULL)

```

Arguments

`msg` A message object.

`from` Email address.

Value

A message object.

See Also

[to](#), [cc](#), [bcc](#), [sender](#), [reply](#) and [subject](#)

Examples

```
msg <- envelope()  
from(msg, "craig@gmail.com")
```

header	<i>Create formatted header.</i>
--------	---------------------------------

Description

Create formatted header.

Usage

```
header(msg)
```

Arguments

msg A message object.

Value

A message header.

html	<i>Add an HTML body to a message object.</i>
------	--

Description

Add an HTML body to a message object.

Usage

```
html(  
  msg,  
  content,  
  disposition = "inline",  
  charset = "utf-8",  
  encoding = "quoted-printable",  
  interpolate = TRUE,  
  .open = "{",  
  .close = "}",  
  .envir = NULL  
)
```

Arguments

msg	A message object.
content	A string of message content.
disposition	How content is presented (Content-Disposition).
charset	How content is encoded.
encoding	How content is transformed to ASCII (Content-Transfer-Encoding).
interpolate	Whether or not to interpolate into input using glue .
.open	The opening delimiter.
.close	The closing delimiter.
.envir	Environment used for glue interpolation. Defaults to <code>parent.frame()</code> .

Value

A message object.

See Also

[text](#)

Examples

```
library(magrittr)  
  
# Inline HTML message.  
msg <- envelope() %>% html("<b>Hello!</b>")  
  
# Read HTML message from a file.  
msg <- envelope() %>% html("message.html")
```

local	<i>Extract local part of email address</i>
-------	--

Description

Extract local part of email address

Usage

```
local(addr)
```

Arguments

addr An address object.

Value

A character vector.

Examples

```
local("alice@example.com")
```

new_address	<i>Helper function for creating address objects</i>
-------------	---

Description

Helper function for creating address objects

Usage

```
new_address(  
  email = character(),  
  display = character(),  
  local = character(),  
  domain = character(),  
  normalise = TRUE  
)
```

Arguments

email Email address.
display Display name.
local Local part of email address.
domain Domain part of email address.
normalise Whether to try to normalise address to RFC-5321 requirements.

Value

An address object, representing an email address.

parties	<i>Extract sender and recipient(s)</i>
---------	--

Description

Extract sender and recipient(s)

Usage

```
parties(msg)
```

Arguments

msg A message object.

Value

A tibble.

Examples

```
email <- envelope() %>%
  from("Gerald <gerald@gmail.com>") %>%
  to(c("bob@gmail.com", "alice@yahoo.com")) %>%
  cc("Craig <craig@gmail.com>") %>%
  bcc(" Erin <erin@yahoo.co.uk >")

parties(email)
```

print.envelope	<i>Print a message object</i>
----------------	-------------------------------

Description

The message body will be printed if details is TRUE or if the envelope_details option is TRUE.

Usage

```
## S3 method for class 'envelope'
print(x, details = NA, ...)
```


Arguments

<code>x</code>	A message object.
<code>details</code>	Whether or not to display full message content.
<code>...</code>	Any other arguments (for consistency of generic function).

Examples

```
msg <- envelope() %>% text("Hello, World!")

print(msg)
print(msg, details = TRUE)

options(envelope_details = TRUE)
print(msg)
```

```
print.vctrs_address Print an address object
```

Description

Print an address object

Usage

```
## S3 method for class 'vctrs_address'
print(x, ...)
```

Arguments

<code>x</code>	An address object.
<code>...</code>	Further arguments passed to or from other methods.

Examples

```
gerry <- as.address("gerry@gmail.com")
print(gerry)
```

qp_decode	<i>Decode a quoted-printable string.</i>
-----------	--

Description

Decode a quoted-printable string.

Usage

```
qp_decode(x)
```

Arguments

x A vector of strings.

Value

A vector of decoded strings.

qp_encode	<i>Encode a string to quoted-printable.</i>
-----------	---

Description

Encode a string to quoted-printable.

Usage

```
qp_encode(x)
```

Arguments

x A vector of strings.

Value

A vector of encoded strings.

raw	<i>Extract raw email address</i>
-----	----------------------------------

Description

Strips the display name off an email address (if present).

Usage

```
raw(addr)
```

Arguments

addr An address object.

Value

A raw email address.

Examples

```
gerry <- as.address("Gerald <gerry@gmail.com>")
raw(gerry)
```

render	<i>Render Markdown into email</i>
--------	-----------------------------------

Description

Render either Plain Markdown or R Markdown directly into the body of an email.

Usage

```
render(
  msg,
  input,
  plain = FALSE,
  include_css = TRUE,
  interpolate = TRUE,
  .open = "{{",
  .close = "}}",
  .envir = NULL
)
```

Arguments

<code>msg</code>	A message object.
<code>input</code>	The input Markdown file to be rendered or a character vector of Markdown text.
<code>plain</code>	Whether to treat the input as plain or R Markdown.
<code>include_css</code>	Whether to include rendered CSS.
<code>interpolate</code>	Whether or not to interpolate into input using glue .
<code>.open</code>	The opening delimiter.
<code>.close</code>	The closing delimiter.
<code>.envir</code>	Environment used for glue interpolation. Defaults to <code>parent.frame()</code> .

Value

A message object.

Examples

```
# Plain Markdown

markdown <- "[This](https://www.google.com) is a link."
filename <- "message.md"

# Render from Markdown in character vector.
msg <- envelope() %>% render(markdown, plain = TRUE)

# Create a file containing Markdown
cat(markdown, file = filename)

# Render from Markdown in file.
msg <- envelope() %>% render(filename, plain = TRUE)

# Cleanup.
file.remove(filename)

# R Markdown

filename <- "gh-doc.Rmd"

# Create an Rmd document from template.
rmarkdown::draft(
  filename,
  template = "github_document",
  package = "rmarkdown",
  edit = FALSE
)

# Render from Rmd file.
msg <- envelope() %>% render(filename)
```

```
# Cleanup.  
file.remove(filename)
```

reply	<i>Add Reply-To field to message</i>
-------	--------------------------------------

Description

Add Reply-To field to message

Usage

```
reply(msg, reply_to = NULL)
```

Arguments

msg	A message object.
reply_to	Email address.

Value

A message object.

See Also

[to](#), [cc](#), [bcc](#), [from](#), [sender](#) and [subject](#)

Examples

```
msg <- envelope()  
reply(msg, "gerry@gmail.com")
```

sender	<i>Add Sender (on behalf of) field to message</i>
--------	---

Description

Add Sender (on behalf of) field to message

Usage

```
sender(msg, sender = NULL)
```

Arguments

msg	A message object.
sender	Email address.

Value

A message object.

See Also

[to](#), [cc](#), [bcc](#), [from](#), [reply](#) and [subject](#)

Examples

```
msg <- envelope()
sender(msg, "on_behalf_of@gmail.com")
```

server

Create a SMTP server object.

Description

Create a SMTP server object.

Usage

```
server(
  host,
  port = 25,
  username = NULL,
  password = NULL,
  insecure = FALSE,
  reuse = TRUE,
  helo = NA,
  pause_base = 1,
  max_times = 5,
  ...
)
```

Arguments

host	DNS name or IP address of the SMTP server.
port	Port that the SMTP server is listening on.
username	Username for SMTP server.
password	Password for SMTP server.
insecure	Whether to ignore SSL issues.
reuse	Whether the connection to the SMTP server should be left open for reuse.
helo	The HELO domain name of the sending host. If left as NA then will use local host name.
pause_base	Base delay (in seconds) for exponential backoff. See rate_backoff .

max_times Maximum number of times to retry.
... Additional curl options. See `curl::curl_options()` for a list of supported options.

Value

A function which is used to send messages to the server.

Examples

```
library(magrittr)

# Set parameters for SMTP server (with username and password)
smtp <- server(host = "smtp.gmail.com",
               port = 465,
               username = "bob@gmail.com",
               password = "bd40ef6d4a9413de9c1318a65cbae5d7")

# Set parameters for a (fake) testing SMTP server.
#
# More information about this service can be found at https://www.smtpbucket.com/.
#
smtp <- server(host = "mail.smtpbucket.com",
               port = 8025)

# Create a message
msg <- envelope() %>%
  from("bob@gmail.com") %>%
  to("alice@yahoo.com")

# Send message (verbose output from interactions with server)
## Not run:
smtp(msg, verbose = TRUE)

## End(Not run)

# To confirm that the message was sent, go to https://www.smtpbucket.com/ then:
#
# - fill in "bob@gmail.com" for the Sender field and
# - fill in "alice@yahoo.com" for the Recipient field then
# - press the Search button.

# With explicit HELO domain.
#
smtp <- server(host = "mail.example.com",
               helo = "client.example.com")
```

subject	<i>Add or query subject of message.</i>
---------	---

Description

Add or query subject of message.

Usage

```
subject(  
  msg,  
  subject = NULL,  
  interpolate = TRUE,  
  .open = "{{",  
  .close = "}}",  
  .envir = NULL  
)
```

Arguments

msg	A message object.
subject	A subject for the message.
interpolate	Whether or not to interpolate into input using glue .
.open	The opening delimiter.
.close	The closing delimiter.
.envir	Environment used for glue interpolation. Defaults to <code>parent.frame()</code> .

Value

A message object or the subject of the message object (if subject is NULL).

See Also

[to](#), [from](#), [cc](#), [bcc](#) and [reply](#)

Examples

```
library(magrittr)  
  
# Create a message and set the subject  
msg <- envelope() %>% subject("Updated report")  
  
# Retrieve the subject for a message  
subject(msg)
```

text *Add a text body to a message.*

Description

Uses `glue::glue()` to evaluate expressions enclosed in brackets as R code.

Usage

```
text(  
  msg,  
  content,  
  disposition = "inline",  
  charset = "utf-8",  
  encoding = "7bit",  
  interpolate = TRUE,  
  .open = "{{",  
  .close = "}}",  
  .envir = NULL  
)
```

Arguments

<code>msg</code>	A message object.
<code>content</code>	A string of message content.
<code>disposition</code>	How content is presented (Content-Disposition).
<code>charset</code>	How content is encoded.
<code>encoding</code>	How content is transformed to ASCII (Content-Transfer-Encoding).
<code>interpolate</code>	Whether or not to interpolate into input using glue .
<code>.open</code>	The opening delimiter.
<code>.close</code>	The closing delimiter.
<code>.envir</code>	Environment used for glue interpolation. Defaults to <code>parent.frame()</code> .

Value

A message object.

See Also

[html](#)

Examples

```
library(magrittr)

msg <- envelope() %>% text("Hello!")

# Using {glue} interpolation.
#
name <- "Alice"
msg <- envelope() %>% text("Hello {name}.")

print(msg, details = TRUE)

# Disable {glue} interpolation.
#
msg <- envelope() %>% text("This is a set: {1, 2, 3}.", interpolate = FALSE)
```

to *Add To field to message*

Description

Add To field to message

Usage

```
to(msg, ...)
```

Arguments

msg	A message object.
...	Email addresses.

Value

A message object.

See Also

[cc](#), [bcc](#), [from](#), [sender](#), [reply](#) and [subject](#)

Examples

```
msg <- envelope()
to(msg, "bob@gmail.com", "alice@yahoo.com")
to(msg, c("bob@gmail.com", "alice@yahoo.com"))
```

Index

address, [2](#)
append, [3](#)
append.envelope, [4](#)
as.address, [4](#)
as.character.envelope, [5](#)
as.character.MIME, [5](#)
as.character.vctrs_address, [6](#)
attachment, [6](#)

bcc, [7](#), [8](#), [11](#), [13](#), [21](#), [22](#), [24](#), [26](#)

cc, [7](#), [8](#), [11](#), [13](#), [21](#), [22](#), [24](#), [26](#)
compare, [8](#)
compliant, [9](#)

display, [10](#)
domain, [10](#)

envelope, [11](#)

format.vctrs_address, [12](#)
from, [7](#), [8](#), [11](#), [12](#), [21](#), [22](#), [24](#), [26](#)

glue, [14](#), [20](#), [24](#), [25](#)

header, [13](#)
html, [13](#), [25](#)

local, [15](#)

new_address, [15](#)

parties, [16](#)
print.envelope, [16](#)
print.vctrs_address, [17](#)

qp_decode, [18](#)
qp_encode, [18](#)

rate_backoff, [22](#)
raw, [19](#)
render, [19](#)

reply, [7](#), [8](#), [11](#), [13](#), [21](#), [22](#), [24](#), [26](#)

sender, [7](#), [8](#), [13](#), [21](#), [21](#), [26](#)
server, [22](#)
subject, [7](#), [8](#), [11](#), [13](#), [21](#), [22](#), [24](#), [26](#)

text, [14](#), [25](#)
to, [7](#), [8](#), [11](#), [13](#), [21](#), [22](#), [24](#), [26](#)