NAME

Mail::Box::File::Message − one message in a Mbox folder

INHERITANCE

```
 Mail::Box::File::Message
   is a Mail::Box::Message
   is a Mail::Message
   is a Mail::Reporter

 Mail::Box::File::Message is extended by
   Mail::Box::Dbx::Message
   Mail::Box::Mbox::Message
```

SYNOPSIS

```
 my $folder  = new Mail::Box::File folder => $ENV{MAIL}, ...;
 my $message = $folder−>message(0);
```

DESCRIPTION

Maintain one message in an file based folder, any Mail::Box::File extension.

Extends “DESCRIPTION” in Mail::Box::Message.

METHODS

Extends “METHODS” in Mail::Box::Message.

Constructors

Extends “Constructors” in Mail::Box::Message.

`$obj`−>**clone**(%options)

Inherited, see “Constructors” in Mail::Message

Mail::Box::File::Message−>**new**(%options)

Messages in file-based folders use the following options for creation:

```
 −Option    −−Defined in       −−Default
  body        Mail::Message      undef
  body_type   Mail::Box::Message <from folder>
  deleted     Mail::Message      <false>
  field_type  Mail::Message      undef
  folder      Mail::Box::Message <required>
  from_line                      undef
  head        Mail::Message      undef
  head_type   Mail::Message      Mail::Message::Head::Complete
  labels      Mail::Message      {}
  log         Mail::Reporter     'WARNINGS'
  messageId   Mail::Message      undef
  modified    Mail::Message      <false>
  size        Mail::Box::Message undef
  trace       Mail::Reporter     'WARNINGS'
  trusted     Mail::Message      <false>
```

body => OBJECT
body_type => CODE|CLASS
deleted => BOOLEAN
field_type => CLASS
folder => FOLDER
from_line => STRING

The line which begins each message in the file. Some people detest this line, but this is just how things were invented...

head => OBJECT
head_type => CLASS
labels => ARRAY|HASH
log => LEVEL
messageId => STRING
modified => BOOLEAN
size => INTEGER
trace => LEVEL
trusted => BOOLEAN

Constructing a message

Extends ‘‘Constructing a message’’ in Mail::Box::Message.

`$obj`−>**bounce**([<$rg_object|%options>])
Inherited, see ‘‘Constructing a message’’ in Mail::Message::Construct::Bounce

Mail::Box::File::Message−>**build**([$message|$part|$body], `$content`)
Inherited, see ‘‘Constructing a message’’ in Mail::Message::Construct::Build

Mail::Box::File::Message−>**buildFromBody**($body, [$head], `$headers`)
Inherited, see ‘‘Constructing a message’’ in Mail::Message::Construct::Build

`$obj`−>**forward**(%options)
Inherited, see ‘‘Constructing a message’’ in Mail::Message::Construct::Forward

`$obj`−>**forwardAttach**(%options)
Inherited, see ‘‘Constructing a message’’ in Mail::Message::Construct::Forward

`$obj`−>**forwardEncapsulate**(%options)
Inherited, see ‘‘Constructing a message’’ in Mail::Message::Construct::Forward

`$obj`−>**forwardInline**(%options)
Inherited, see ‘‘Constructing a message’’ in Mail::Message::Construct::Forward

`$obj`−>**forwardNo**(%options)
Inherited, see ‘‘Constructing a message’’ in Mail::Message::Construct::Forward

`$obj`−>**forwardPostlude**()
Inherited, see ‘‘Constructing a message’’ in Mail::Message::Construct::Forward

`$obj`−>**forwardPrelude**()
Inherited, see ‘‘Constructing a message’’ in Mail::Message::Construct::Forward

`$obj`−>**forwardSubject**(STRING)
Inherited, see ‘‘Constructing a message’’ in Mail::Message::Construct::Forward

Mail::Box::File::Message−>**read**($fh|STRING|SCALAR|ARRAY, `%options`)
Inherited, see ‘‘Constructing a message’’ in Mail::Message::Construct::Read

`$obj`−>**rebuild**(%options)
Inherited, see ‘‘Constructing a message’’ in Mail::Message::Construct::Rebuild

`$obj`−>**reply**(%options)
Inherited, see ‘‘Constructing a message’’ in Mail::Message::Construct::Reply

`$obj`−>**replyPrelude**([STRING|$field|$address|ARRAY−$of−$things])
Inherited, see ‘‘Constructing a message’’ in Mail::Message::Construct::Reply

`$obj`−>**replySubject**(STRING)
Mail::Box::File::Message−>**replySubject**(STRING)
Inherited, see ‘‘Constructing a message’’ in Mail::Message::Construct::Reply

The message

Extends ‘‘The message’’ in Mail::Box::Message.

`$obj->`**container**()
Inherited, see "The message" in Mail::Message

`$obj->`**copyTo**($folder, `%options`)
Inherited, see "The message" in Mail::Box::Message

`$obj->`**escapedBody**()
Mbox folders contain multiple messages in one file, using a separator line to keep them apart. Typically, these lines start with "From ". Lines within the message could interfere with this separator, and should therefore be translated.

This method will return the escaped text of the body as reference.

`$obj->`**folder**([$folder])
Inherited, see "The message" in Mail::Box::Message

`$obj->`**fromLine**([$line])
Many people detest file-style folders because they store messages all in one file, where a line starting with `From ` leads the header. If we receive a message from a file-based folder, we store that line. If we write to such a file, but there is no such line stored, then we try to generate one.

If `$line` is provided, then the starting line is set to this value.

`$obj->`**isDummy**()
Inherited, see "The message" in Mail::Message

`$obj->`**isPart**()
Inherited, see "The message" in Mail::Message

`$obj->`**messageId**()
Inherited, see "The message" in Mail::Message

`$obj->`**moveTo**($folder, `%options`)
Inherited, see "The message" in Mail::Box::Message

`$obj->`**partNumber**()
Inherited, see "The message" in Mail::Message

`$obj->`**print**([$fh])
Inherited, see "The message" in Mail::Message

`$obj->`**send**([$mailer], `%options`)
Inherited, see "The message" in Mail::Message

`$obj->`**seqnr**([$integer])
Inherited, see "The message" in Mail::Box::Message

`$obj->`**size**()
Inherited, see "The message" in Mail::Message

`$obj->`**toplevel**()
Inherited, see "The message" in Mail::Message

`$obj->`**write**([$fh])
Write one message to a file handle. It is the message including the leading 'From ' line and trailing blank. The From-line may interfere with lines in the body: those lines are escaped with an extra '>'.

example:

```
 $msg->write(\*FILE);    # print the message with encaps to FILE
 $msg->write;            # message with encaps to selected filehandle
 $msg->print(\*FILE);    # the message without encaps.
```

The header

Extends "The header" in Mail::Box::Message.

`$obj−>`**bcc**()
Inherited, see "The header" in Mail::Message

`$obj−>`**cc**()
Inherited, see "The header" in Mail::Message

`$obj−>`**date**()
Inherited, see "The header" in Mail::Message

`$obj−>`**destinations**()
Inherited, see "The header" in Mail::Message

`$obj−>`**from**()
Inherited, see "The header" in Mail::Message

`$obj−>`**get**($fieldname)
Inherited, see "The header" in Mail::Message

`$obj−>`**guessTimestamp**()
Inherited, see "The header" in Mail::Message

`$obj−>`**head**([$head])
Inherited, see "The header" in Mail::Message

`$obj−>`**nrLines**()
Inherited, see "The header" in Mail::Message

`$obj−>`**sender**()
Inherited, see "The header" in Mail::Message

`$obj−>`**study**($fieldname)
Inherited, see "The header" in Mail::Message

`$obj−>`**subject**()
Inherited, see "The header" in Mail::Message

`$obj−>`**timestamp**()
Inherited, see "The header" in Mail::Message

`$obj−>`**to**()
Inherited, see "The header" in Mail::Message

The body

Extends "The body" in Mail::Box::Message.

`$obj−>`**body**([$body])
Inherited, see "The body" in Mail::Message

`$obj−>`**contentType**()
Inherited, see "The body" in Mail::Message

`$obj−>`**decoded**(%options)
Inherited, see "The body" in Mail::Message

`$obj−>`**encode**(%options)
Inherited, see "The body" in Mail::Message

`$obj−>`**isMultipart**()
Inherited, see "The body" in Mail::Message

`$obj−>`**isNested**()
Inherited, see "The body" in Mail::Message

`$obj−>`**parts**([<'ALL'|'ACTIVE'|'DELETED'|'RECURSE'|$filter>])
Inherited, see "The body" in Mail::Message

Flags

Extends ‘‘Flags’’ in Mail::Box::Message.

$obj−>**delete**()
Inherited, see ‘‘Flags’’ in Mail::Message

$obj−>**deleted**([BOOLEAN])
Inherited, see ‘‘Flags’’ in Mail::Message

$obj−>**isDeleted**()
Inherited, see ‘‘Flags’’ in Mail::Message

$obj−>**isModified**()
Inherited, see ‘‘Flags’’ in Mail::Message

$obj−>**label**($label|PAIRS)
Inherited, see ‘‘Flags’’ in Mail::Message

$obj−>**labels**()
Inherited, see ‘‘Flags’’ in Mail::Message

$obj−>**labelsToStatus**()
Inherited, see ‘‘Flags’’ in Mail::Message

$obj−>**modified**([BOOLEAN])
Inherited, see ‘‘Flags’’ in Mail::Message

$obj−>**statusToLabels**()
Inherited, see ‘‘Flags’’ in Mail::Message

The whole message as text

Extends ‘‘The whole message as text’’ in Mail::Box::Message.

$obj−>**file**()
Inherited, see ‘‘The whole message as text’’ in Mail::Message::Construct::Text

$obj−>**lines**()
Inherited, see ‘‘The whole message as text’’ in Mail::Message::Construct::Text

$obj−>**printStructure**([$fh|undef],[$indent])
Inherited, see ‘‘The whole message as text’’ in Mail::Message::Construct::Text

$obj−>**string**()
Inherited, see ‘‘The whole message as text’’ in Mail::Message::Construct::Text

Internals

Extends ‘‘Internals’’ in Mail::Box::Message.

$obj−>**clonedFrom**()
Inherited, see ‘‘Internals’’ in Mail::Message

Mail::Box::File::Message−>**coerce**($message, %options)
Inherited, see ‘‘Internals’’ in Mail::Message

$obj−>**diskDelete**()
Inherited, see ‘‘Internals’’ in Mail::Box::Message

$obj−>**fileLocation**()
Returns the location of the whole message including the from-line. In LIST context, both begin and end are returned. In SCALAR context, only the begin is passed back.

$obj−>**isDelayed**()
Inherited, see ‘‘Internals’’ in Mail::Message

$obj−>**loadBody**()

$obj−>**moveLocation**($distance)
The message is relocated in the file, being moved over $distance bytes. Setting a new location will update the according information in the header and body.

$obj−>**readBody**($parser, $head, [$bodytype])
Inherited, see ‘‘Internals’’ in Mail::Box::Message

$obj−>**readFromParser**($parser)
Read one message from a Mail::Box::File based folder, including the leading message separator.

$obj−>**readHead**($parser, [$class])
Inherited, see ‘‘Internals’’ in Mail::Message

$obj−>**recursiveRebuildPart**($part, %options)
Inherited, see ‘‘Internals’’ in Mail::Message::Construct::Rebuild

$obj−>**storeBody**($body)
Inherited, see ‘‘Internals’’ in Mail::Message

$obj−>**takeMessageId**([STRING])
Inherited, see ‘‘Internals’’ in Mail::Message

Error handling

Extends ‘‘Error handling’’ in Mail::Box::Message.

$obj−>**AUTOLOAD**()
Inherited, see ‘‘METHODS’’ in Mail::Message::Construct

$obj−>**addReport**($object)
Inherited, see ‘‘Error handling’’ in Mail::Reporter

$obj−>**defaultTrace**([$level]|[$loglevel, $tracelevel]|[$level, $callback])
Mail::Box::File::Message−>**defaultTrace**([$level]|[$loglevel, $tracelevel]|[$level, $callback])
Inherited, see ‘‘Error handling’’ in Mail::Reporter

$obj−>**errors**()
Inherited, see ‘‘Error handling’’ in Mail::Reporter

$obj−>**log**([$level, [$strings]])
Mail::Box::File::Message−>**log**([$level, [$strings]])
Inherited, see ‘‘Error handling’’ in Mail::Reporter

$obj−>**logPriority**($level)
Mail::Box::File::Message−>**logPriority**($level)
Inherited, see ‘‘Error handling’’ in Mail::Reporter

$obj−>**logSettings**()
Inherited, see ‘‘Error handling’’ in Mail::Reporter

$obj−>**notImplemented**()
Inherited, see ‘‘Error handling’’ in Mail::Reporter

$obj−>**report**([$level])
Inherited, see ‘‘Error handling’’ in Mail::Reporter

$obj−>**reportAll**([$level])
Inherited, see ‘‘Error handling’’ in Mail::Reporter

$obj−>**shortSize**([$value])
Mail::Box::File::Message−>**shortSize**([$value])
Inherited, see ‘‘Error handling’’ in Mail::Message

$obj−>**shortString**()
Inherited, see ‘‘Error handling’’ in Mail::Message

`$obj`−>**trace**([$level])
Inherited, see ‘‘Error handling’’ in Mail::Reporter

`$obj`−>**warnings**()
Inherited, see ‘‘Error handling’’ in Mail::Reporter

Cleanup

Extends ‘‘Cleanup’’ in Mail::Box::Message.

`$obj`−>**DESTROY**()
Inherited, see ‘‘Cleanup’’ in Mail::Reporter

`$obj`−>**destruct**()
Inherited, see ‘‘Cleanup’’ in Mail::Box::Message

DETAILS

Extends ‘‘DETAILS’’ in Mail::Box::Message.

DIAGNOSTICS

Error: Cannot coerce a `$class` object into a `$class` object

Error: Cannot include forward source as `$include`.
Unknown alternative for the forward(include). Valid choices are `NO`, `INLINE`, `ATTACH`, and `ENCAPSULATE`.

Error: Cannot include reply source as `$include`.
Unknown alternative for the `include` option of **reply()**. Valid choices are `NO`, `INLINE`, and `ATTACH`.

Error: Method bounce requires To, Cc, or Bcc
The message **bounce()** method forwards a received message off to someone else without modification; you must specified it’s new destination. If you have the urge not to specify any destination, you probably are looking for **reply()**. When you wish to modify the content, use **forward()**.

Error: Method forwardAttach requires a preamble

Error: Method forwardEncapsulate requires a preamble

Error: No address to create forwarded to.
If a forward message is created, a destination address must be specified.

Error: No default mailer found to send message.
The message **send()** mechanism had not enough information to automatically find a mail transfer agent to sent this message. Specify a mailer explicitly using the `via` options.

Error: No rebuild rule `$name` defined.

Error: Only **build()** Mail::Message’s; they are not in a folder yet
You may wish to construct a message to be stored in a some kind of folder, but you need to do that in two steps. First, create a normal Mail::Message, and then add it to the folder. During this **Mail::Box::addMessage()** process, the message will get **coerce()**−d into the right message type, adding storage information and the like.

Error: Package `$package` does not implement `$method`.
Fatal error: the specific package (or one of its superclasses) does not implement this method where it should. This message means that some other related classes do implement this method however the class at hand does not. Probably you should investigate this and probably inform the author of the package.

Error: Unable to read delayed body.

Error: coercion starts with some object

SEE ALSO

This module is part of Mail-Box distribution version 3.009, built on August 18, 2020. Website: *http://perl.overmeer.net/CPAN/*

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