# :mod:`mailbox` --- Manipulate mailboxes in various

formats

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Unknown directive type "module".

.. module:: mailbox :synopsis: Manipulate mailboxes in various formats

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Unknown directive type "moduleauthor".

.. moduleauthor:: Gregory K. Johnson <gkj@gregorykjohnson.com>

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.. sectionauthor:: Gregory K. Johnson <gkj@gregorykjohnson.com>

Source code: :source:`Lib/mailbox.py`

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This module defines two classes, <code>class:Mailbox</code> and <code>class:Message</code>, for accessing and manipulating on-disk mailboxes and the messages they contain. <code>class:Mailbox</code> offers a dictionary-like mapping from keys to messages. <code>class:Message</code> extends the <code>mod:email.message</code> module's <code>class:\*-email.message</code>. Message class with format-specific state and behavior. Supported mailbox formats are Maildir, mbox, MH, Babyl, and MMDF.

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```
.. seealso::

Module :mod:`email`
Represent and manipulate messages.
```

# :class:'Mailbox' objects

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A mailbox, which may be inspected and modified.

The <a href="mailto:">class</a>: Mailbox' class defines an interface and is not intended to be instantiated. Instead, format-specific subclasses should inherit from <a href="mailto:seas:">class</a>: Mailbox' and your code should instantiate a particular subclass.

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The <code>class: Mailbox</code> interface is dictionary-like, with small keys corresponding to messages. Keys are issued by the <code>class: Mailbox</code> instance with which they will be used and are only meaningful to that <code>class: Mailbox</code> instance. A key continues to identify a message even if the corresponding message is modified, such as by replacing it with another message.

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Messages may be added to a <code>class:'Mailbox'</code> instance using the set-like method <code>meth:'add'</code> and removed using a <code>del</code> statement or the set-like methods <code>meth:'remove'</code> and <code>meth:'discard'</code>.

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class: Mailbox' interface semantics differ from dictionary semantics in some noteworthy ways. Each time a message is requested, a new representation (typically a class: Message instance) is generated based upon the current state of the mailbox. Similarly, when a message is added to a class: Mailbox' instance, the provided message representation's contents are copied. In neither case is a reference to the message representation kept by the class: Mailbox' instance.

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Unknown interpreted text role "class".

The default xclass: Mailbox iterator iterates over message representations, not keys as the default dictionary iterator does. Moreover, modification of a mailbox during iteration is safe and well-defined. Messages added to the mailbox after an iterator is created will not be seen by the iterator. Messages removed from the mailbox before the iterator yields them will be silently skipped, though using a key from an iterator may result in a 'exc: KeyError' exception if the corresponding message is subsequently removed.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library\mailbox.rst, line 59); backlink

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#### Warning

Be very cautious when modifying mailboxes that might be simultaneously changed by some other process. The safest mailbox format to use for such tasks is Maildir; try to avoid using single-file formats such as mbox for concurrent writing. If you're modifying a mailbox, you *must* lock it by calling the <code>meth'lock</code> and <code>meth'unlock</code> methods <code>before</code> reading any messages in the file or making any changes by adding or deleting a message. Failing to lock the mailbox runs the risk of losing messages or corrupting the entire mailbox.

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:class:'Mailbox' instances have the following methods:

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Unknown directive type "method".

.. method:: add(message)

 $\mbox{Add *message*}$  to the mailbox and return the key that has been assigned to it.

Parameter \*message\* may be a :class:`Message` instance, an :class:`email.message.Message` instance, a string, a byte string, or a file-like object (which should be open in binary mode). If \*message\* is an instance of the appropriate format-specific :class:`Message` subclass (e.g., if it's an :class:`mboxMessage` instance and this is an :class:`mbox instance), its format-specific information is used. Otherwise, reasonable defaults for format-specific information are used.

.. versionchanged:: 3.2 Support for binary input was added.

System Message: ERROR/3 (p:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library)mailbox.rst, line 100)

Unknown directive type "method".

```
.. method:: remove(key)
__delitem__(key)
discard(key)
```

Delete the message corresponding to \*key\* from the mailbox.

If no such message exists, a :exc:`KeyError` exception is raised if the method was called as :meth:`remove` or :meth:`\_delitem\_\_` but no exception is raised if the method was called as :meth:`discard`. The behavior of :meth:`discard` may be preferred if the underlying mailbox format supports concurrent modification by other processes.

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Unknown directive type "method".

```
.. method:: _setitem__(key, message)

Replace the message corresponding to *key* with *message*. Raise a :exc:`KeyError` exception if no message already corresponds to *key*.

As with :meth:`add`, parameter *message* may be a :class:`Message` instance, an :class:`email.message.Message` instance, a string, a byte string, or a file-like object (which should be open in binary mode). If *message* is an instance of the appropriate format-specific :class:`Message` subclass (e.g., if it's an :class:`mboxMessage` instance and this is an :class:`mbox' instance), its format-specific information is used. Otherwise, the format-specific information of the message that currently corresponds to *key* is left unchanged.
```

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## Unknown directive type "method".

```
.. method:: itervalues()
__iter__()
_values()
```

Return an iterator over representations of all messages if called as :meth: itervalues' or :meth: iter\_ or return a list of such representations if called as :meth: values'. The messages are represented as instances of the appropriate format-specific :class: Message' subclass unless a custom message factory was specified when the :class: Mailbox instance was initialized.

.. note:

The behavior of :meth:`\_iter\_` is unlike that of dictionaries, which iterate over keys.

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## Unknown directive type "method".

```
.. method:: iteritems()
    items()
```

Return an iterator over (\*key\*, \*message\*) pairs, where \*key\* is a key and \*message\* is a message representation, if called as :meth:'iteritems' or return a list of such pairs if called as :meth:'items'. The messages are represented as instances of the appropriate format-specific :class:'Message' subclass unless a custom message factory was specified when the :class:'Mailbox' instance was initialized.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library) mailbox.rst, line 164)

#### Unknown directive type "method".

Return a representation of the message corresponding to \*key\*. If no such message exists, \*default\* is returned if the method was called as :meth: get` and a :exc: YeyError` exception is raised if the method was called as :meth: \_getiem \_. The message is represented as an instance of the appropriate format-specific :class: Message` subclass unless a custom message factory was specified when the :class: Mailbox` instance was initialized.

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# Unknown directive type "method".

```
.. method:: get_message(key)
```

Return a representation of the message corresponding to \*key\* as an instance of the appropriate format-specific :class: Message` subclass, or raise a :exc:`KeyError` exception if no such message exists.

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## Unknown directive type "method".

```
.. method:: get_bytes(key)
```

Return a byte representation of the message corresponding to \*key\*, or raise a :exc:`KeyError` exception if no such message exists.

.. versionadded:: 3.2

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### Unknown directive type "method".

```
.. method:: get_string(key)
```

Return a string representation of the message corresponding to \*key\*, or raise a :exc: <code>XeyError</code> exception if no such message exists. The message is processed through :class: <code>Yemail.message.Message</code> to convert it to a <code>7bit</code> clean representation.

#### main\Doc\library\(cpython-main) (Doc) (library)mailbox.rst, line 199)

#### Unknown directive type "method".

.. method:: get\_file(key)

Return a file-like representation of the message corresponding to \*key\*, or raise a :exc: 'KeyError' exception if no such message exists. The file-like object behaves as if open in binary mode. This file should be closed once it is no longer needed.

- .. versionchanged:: 3.2
  The file object really is a binary file; previously it was incorrectly returned in text mode. Also, the file-like object now supports the context management protocol: you can use a :keyword:`with` statement to automatically close it.
- note..

Unlike other representations of messages, file-like representations are not necessarily independent of the :class: Mailbox` instance that created them or of the underlying mailbox. More specific documentation is provided by each subclass.

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#### Unknown directive type "method".

```
.. method:: __contains__(key)
Return ``True`` if *key* corresponds to a message, ``False`` otherwise.
```

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## Unknown directive type "method".

```
.. method:: __len__()

Return a count of messages in the mailbox.
```

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#### Unknown directive type "method".

```
.. method:: clear()
```

Delete all messages from the mailbox.

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## Unknown directive type "method".

.. method:: pop(key, default=None)

Return a representation of the message corresponding to \*key\* and delete the message. If no such message exists, return \*default\*. The message is represented as an instance of the appropriate format-specific :class: 'Message' subclass unless a custom message factory was specified when the :class: 'Mailbox' instance was initialized.

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# Unknown directive type "method".

.. method:: popitem()

Return an arbitrary (\*key\*, \*message\*) pair, where \*key\* is a key and \*message\* is a message representation, and delete the corresponding message. If the mailbox is empty, raise a :exc: `KeyError` exception. The message is represented as an instance of the appropriate format-specific :class: `Message` subclass unless a custom message factory was specified when the :class: `Mailbox` instance was initialized.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\((cpython-main)\ (Doc)\ ((ibrary)\ mailbox.rst, line 254)

## Unknown directive type "method".

```
.. method:: update(arg)
```

Parameter \*arg\* should be a \*key\*-to-\*message\* mapping or an iterable of (\*key\*, \*message\*) pairs. Updates the mailbox so that, for each given \*key\* and \*message\*, the message corresponding to \*key\* is set to \*message\* as if by using :meth:`\_setitem\_\_`. As with :meth:`\_setitem\_\_`, each \*key\* must already correspond to a message in the mailbox or else a :exc:`KeyError` exception will be raised, so in general it is incorrect for \*arg\* to be a :class:`Mailbox` instance.

.. note:

Unlike with dictionaries, keyword arguments are not supported.

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Unknown directive type "method".

.. method:: flush()

Write any pending changes to the filesystem. For some :class:`Mailbox` subclasses, changes are always written immediately and :meth:`flush` does nothing, but you should still make a habit of calling this method.

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Unknown directive type "method"

.. method:: lock()

Acquire an exclusive advisory lock on the mailbox so that other processes know not to modify it. An :exc: ExternalClashError` is raised if the lock is not available. The particular locking mechanisms used depend upon the mailbox format. You should \*always\* lock the mailbox before making any modifications to its contents.

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Unknown directive type "method".

.. method:: unlock()

Release the lock on the mailbox, if any.

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Unknown directive type "method".

.. method:: close()

Flush the mailbox, unlock it if necessary, and close any open files. For some :class: `Mailbox` subclasses, this method does nothing.

:class:`Maildir`

Unknown interpreted text role "class".

A subclass of xclass; Mailbox' for mailboxes in Maildir format. Parameter factory is a callable object that accepts a file-like message representation (which behaves as if opened in binary mode) and returns a custom representation. If factory is None, xclass; MaildirMessage' is used as the default message representation. If create is True, the mailbox is created if it does not exist.

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Unknown interpreted text role "class".

If create is True and the dirname path exists, it will be treated as an existing maildir without attempting to verify its directory layout. It is for historical reasons that dirname is named as such rather than path.

Maildir is a directory-based mailbox format invented for the qmail mail transfer agent and now widely supported by other programs. Messages in a Maildir mailbox are stored in separate files within a common directory structure. This design allows Maildir mailboxes to be accessed and modified by multiple unrelated programs without data corruption, so file locking is unnecessary.

Maildir mailboxes contain three subdirectories, namely: file:'tmp', file:'new', and file:'cur'. Messages are created momentarily in the file:'tmp' subdirectory and then moved to the file:'new' subdirectory to finalize delivery. A mail user agent may subsequently move the message to the file:'cur' subdirectory and store information about the state of the message in a special "info" section appended to its file name.

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main\Doc\library\(cpython-main) (Doc) (library)mailbox.rst, line 323); backlink Unknown interpreted text role "file".

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Folders of the style introduced by the Courier mail transfer agent are also supported. Any subdirectory of the main mailbox is considered a folder if '.' is the first character in its name. Folder names are represented by <a href="mailto:class:">class: Maildir</a> without the leading '.' : Each folder is itself a Maildir mailbox but should not contain other folders. Instead, a logical nesting is indicated using '.' to delimit levels, e.g., "Archived.2005.07".

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Unknown interpreted text role "class".

### Note

The Maildir specification requires the use of a colon (':') in certain message file names. However, some operating systems do not permit this character in file names, If you wish to use a Maildir-like format on such an operating system, you should specify another character to use instead. The exclamation point ('!') is a popular choice. For example:

```
import mailbox
mailbox.Maildir.colon = '!'
```

The :attr:'colon' attribute may also be set on a per-instance basis.

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:class: 'Maildir' instances have all of the methods of :class: 'Mailbox' in addition to the following:

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System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library)mailbox.rst, line 355)

Unknown directive type "method".

```
.. method:: list_folders()

Return a list of the names of all folders.
```

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Unknown directive type "method".

```
.. method:: get_folder(folder)

Return a :class: 'Maildir' instance representing the folder whose name is *folder*. A :exc: 'NoSuchMailboxError' exception is raised if the folder does not exist.
```

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Unknown directive type "method".

```
.. method:: add_folder(folder)

Create a folder whose name is *folder* and return a :class:`Maildir`
instance representing it.
```

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Unknown directive type "method".

```
.. method:: remove_folder(folder)

Delete the folder whose name is *folder*. If the folder contains any messages, a :exc: NotEmptyError` exception will be raised and the folder
```

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Unknown directive type "method".

.. method:: clean()

Delete temporary files from the mailbox that have not been accessed in the last 36 hours. The Maildir specification says that mail-reading programs should do this occasionally.

Some :class:'Mailbox' methods implemented by :class:'Maildir' deserve special remarks:

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Unknown interpreted text role "class".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library)mailbox.rst, line 390)

Unknown directive type "method".

- .. method:: add(message)
  \_\_setitem\_(key, message)
  update(arg)
  - .. warning::

These methods generate unique file names based upon the current process ID. When using multiple threads, undetected name clashes may occur and cause corruption of the mailbox unless threads are coordinated to avoid using these methods to manipulate the same mailbox simultaneously.

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Unknown directive type "method".

.. method:: flush()

All changes to Maildir mailboxes are immediately applied, so this method does nothing.  $% \left( 1\right) =\left( 1\right) \left( 1\right) +\left( 1\right) \left( 1\right) \left( 1\right) +\left( 1\right) \left( 1\right)$ 

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Unknown directive type "method".

.. method:: lock()

 $\mbox{\tt Maildir}$  mailboxes do not support (or require) locking, so these methods do nothing.

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.. method:: close()

:class:`Maildir` instances do not keep any open files and the underlying mailboxes do not support locking, so this method does nothing.

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Unknown directive type "method".

.. method:: get\_file(key)

Depending upon the host platform, it may not be possible to modify or remove the underlying message while the returned file remains open.

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Unknown directive type "seealso".

.. seealso::

`maildir man page from Courier <a href="http://www.courier-mta.org/maildir.html">
 A specification of the format. Describes a common extension for supporting folders.

Notes on Maildir by its inventor. Includes an updated name-creation scheme and details on "info" semantics.

### :class:\mbox\

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Unknown interpreted text role "class".

A subclass of <code>class</code>; <code>Mailbox</code> for mailboxes in mbox format. Parameter <code>factory</code> is a callable object that accepts a file-like message representation (which behaves as if opened in binary mode) and returns a custom representation. If <code>factory</code> is <code>None</code>, <code>class</code>; <code>mboxMessage</code> is used as the default message representation. If <code>create</code> is <code>True</code>, the mailbox is created if it does not exist.

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Unknown interpreted text role "class".

Unknown interpreted text role "class".

The mbox format is the classic format for storing mail on Unix systems. All messages in an mbox mailbox are stored in a single file with the beginning of each message indicated by a line whose first five characters are "From".

Several variations of the mbox format exist to address perceived shortcomings in the original. In the interest of compatibility, <a href="class:">class: mbox"</a> implements the original format, which is sometimes referred to as <a href="mailheader:">dfin: mboxo</a>. This means that the <a href="mailheader:">mailheader: Content-Length</a> header, if present, is ignored and that any occurrences of "From" at the beginning of a line in a message body are transformed to ">From " when storing the message, although occurrences of ">From " are not transformed to "From " when reading the message.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library)mailbox.rst, line 457); backlink

Unknown interpreted text role "class".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) mailbox.rst, line 457); backlink

Unknown interpreted text role "dfn".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library)mailbox.rst, line 457); backlink

Unknown interpreted text role "mailheader".

Some  $\mbox{"class:'Mailbox"}$  methods implemented by  $\mbox{"class:'mbox"}$  deserve special remarks:

 $System Message: ERROR/3 \ ( \verb|D: \ondownding-resources \) sample-onboarding-resources \) copython-main \) ( \verb|Doc| \) (library) mailbox.rst, line 465); backlink \)$ 

Unknown interpreted text role "class".

 $System\,Message: ERROR/3 \ (\cite{Continuous} a continuous sample-onboarding-resources \cite{Continuous} and continuous sample-onboarding-resources \cite{$ 

Unknown interpreted text role "class".

 $System\,Message: ERROR/3~(\c b) arding-resources ample-onboarding-resources cpython-main\c b) (library) allbox.rst, line 469)$ 

Unknown directive type "method".

.. method:: get\_file(key)

Using the file after calling :meth:`flush` or :meth:`close` on the :class:`mbox` instance may yield unpredictable results or raise an exception.

 $System \, Message: ERROR/3 \ ( \verb|D:\nonboarding-resources \rangle sample-onboarding-resources \rangle cpython-main \ ( \verb|Doc \rangle library \rangle ( cpython-main) \ ( \verb|Doc \rangle ( library \rangle mailbox.rst, line 476)$ 

Unknown directive type "method".

.. method:: lock() unlock(

Three locking mechanisms are used---dot locking and, if available, the :c:func:`flock` and :c:func:`lockf` system calls.

 $System\,Message: ERROR/3~(\colored) in pressure a sample-onboarding-resources $$ \colored) in Doc\library (cpython-main) (Doc) (library) mailbox.rst, line 483)$ 

Unknown directive type "seealso".

.. seealso::

`mbox man page from tin <a href="http://www.tin.org/bin/man.cgi?section=5&topic=mbox">\\_
A specification of the format, with details on locking.

`Configuring Netscape Mail on Unix: Why The Content-Length Format is Bad <a href="https://www.jwz.org/doc/content-length.html">https://www.jwz.org/doc/content-length.html</a> An argument for using the original mbox format rather than a variation. ""mbox" is a family of several mutually incompatible mailbox formats <a href="https://www.loc.gov/preservation/digital/formats">https://www.loc.gov/preservation/digital/formats</a> A history of mbox variations.

#### :class:`MH`

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) mailbox.rst, line 497); backlink

Unknown interpreted text role "class".

A subclass of <code>class</code>: <code>Mailbox</code> for mailboxes in MH format. Parameter <code>factory</code> is a callable object that accepts a file-like message representation (which behaves as if opened in binary mode) and returns a custom representation. If <code>factory</code> is <code>None</code>, <code>class</code>: <code>MHMessage</code> is used as the default message representation. If <code>create</code> is <code>True</code>, the mailbox is created if it does not exist.

 $System\ Message: ERROR/3\ (\texttt{D:\noboarding-resources}) sample-onboarding-resources \verb|\conton=main|Doc|library| (cpython-main)\ (Doc)\ (library)\ mailbox.rst, line\ 503); \textit{backlink}$ 

Unknown interpreted text role "class".

 $System \, Message: ERROR/3 \ ( \verb|D:\onboarding-resources| sample-onboarding-resources| cpython-main| Doc| library| (cpython-main| (Doc) (library| mailbox.rst, line 503); \\ backlink$ 

Unknown interpreted text role "class".

MH is a directory-based mailbox format invented for the MH Message Handling System, a mail user agent. Each message in an MH mailbox resides in its own file. An MH mailbox may contain other MH mailboxes (called <a href="mailto:xffile://dfm;">xffile://dfm;</a> folders may be nested indefinitely. MH mailboxes also support <a href="mailto:xffile://dfm;">xffile://dfm;</a> folders. Sequences are defined in a file called <a href="mailto://dfm;">ffile://dfm;</a> in each folder.

 $System\ Message: ERROR/3\ (\ D:\ \ \ \ )\ (b) \ (b)$ 

Unknown interpreted text role "dfn".

 $System\,Message: ERROR/3~(\colored in g-resources) sample-onboarding-resources \colored in boclibrary (cpython-main)~(boc)~(library) mailbox.rst, line 510); backlink$ 

Unknown interpreted text role "dfn".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) mailbox.rst, line 510); backlink

Unknown interpreted text role "file".

The xclass: MH class manipulates MH mailboxes, but it does not attempt to emulate all of program mh's behaviors. In particular, it does not modify and is not affected by the file: context or file: mh\_profile files that are used by program mh to store its state and configuration.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\((cpython-main)\ (Doc)\ ((ibrary)\ mailbox.rst, line 518); backlink

Unknown interpreted text role "class".

 $System\,Message: ERROR/3 \ (\cite{Continuous} a continuous and in pressure and in the continuous and in the c$ 

Unknown interpreted text role "program".

 $System\,Message: ERROR/3 \ (\cite{Continuous} a continuous and independent of the continuous and the contin$ 

Unknown interpreted text role "file".

 $System\,Message: ERROR/3 \ (\cite{Continuous} a continuous and independent of the continuous and the contin$ 

Unknown interpreted text role "file".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) mailbox.rst, line 518); backlink

Unknown interpreted text role "program".

:class:'MH' instances have all of the methods of :class:'Mailbox' in addition to the following:

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library)mailbox.rst, line 523); backlink

Unknown interpreted text role "class".

 $System\,Message: ERROR/3~(\colored in g-resources) sample-onboarding-resources \colored in Jock library \colored in Jock library) (cpython-main) (Doc) (library) mailbox.rst, line 523); backlink$ 

Unknown interpreted text role "class".

 $System\,Message: ERROR/3~(\colored) in pressure a sample-onboarding-resource $$ \colored) in Doc\library (cpython-main) (Doc) (library) mailbox.rst, line 527)$ 

Unknown directive type "method".

.. method:: list\_folders()

Return a list of the names of all folders.

 $System\,Message: ERROR/3~(\colored in g-resources) sample-onboarding-resources \colored in Jocolibrary (cpython-main) (Doc) (library) mailbox.rst, line 532)$ 

## Unknown directive type "method".

.. method:: get\_folder(folder)

Return an :class:`MH` instance representing the folder whose name is \*folder\*. A :exc:`NoSuchMailboxError` exception is raised if the folder does not exist.

 $System\,Message: ERROR/3 \ (\cite{Continuous} a continuous and index of the continuous and the continuous a$ 

#### Unknown directive type "method".

.. method:: add folder(folder)

Create a folder whose name is \*folder\* and return an :class:`MH` instance representing it.

 $System\,Message: ERROR/3 \ (\cite{Continuous} a continuous and co$ 

#### Unknown directive type "method".

.. method:: remove\_folder(folder)

Delete the folder whose name is \*folder\*. If the folder contains any messages, a :exc: NotEmptyError` exception will be raised and the folder will not be deleted.

 $System\,Message: ERROR/3~(\texttt{D:}\comboarding-resources}\comboarding-resources) comboarding-resources continuous (and the comboarding-resources) comboarding-resources (and the comboarding-resources) comboarding-$ 

#### Unknown directive type "method".

.. method:: get\_sequences()

Return a dictionary of sequence names mapped to key lists. If there are no sequences, the empty dictionary is returned.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library)mailbox.rst, line 558)

### Unknown directive type "method".

.. method:: set\_sequences(sequences)

Re-define the sequences that exist in the mailbox based upon \*sequences\*, a dictionary of names mapped to key lists, like returned by :meth: get sequences'.

 $System\,Message: ERROR/3~(\cite{Control} in pressure states and the pressure states are supplied in the control of the contro$ 

## Unknown directive type "method".

.. method:: pack()

Rename messages in the mailbox as necessary to eliminate gaps in numbering. Entries in the sequences list are updated correspondingly.

.. note::

Already-issued keys are invalidated by this operation and should not be subsequently used.  $% \left( 1\right) =\left( 1\right) +\left( 1\right)$ 

Some :class:'Mailbox' methods implemented by :class:'MH' deserve special remarks:

Unknown interpreted text role "class".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library)mailbox.rst, line 575); backlink

Unknown interpreted text role "class".

 $System\,Message: ERROR/3~(\cite{Description}) \label{line-resources} $$\sup_{\alpha\in\mathbb{N}} (\cite{Description}) \cite{Description} \end{Description} $$\sup_{\alpha\in\mathbb{N}} (\cite{Description}) \cite{Description} \end{Description} $$\sup_{\alpha\in\mathbb{N}} (\cite{Description}) \cite{Description} \end{Description} $$\sup_{\alpha\in\mathbb{N}} (\cite{Description}) \cite{Description} \end{Description} $$\lim_{\alpha\to\infty} (\cite{Description}) \cite{Description} \end{Description} $$\sup_{\alpha\in\mathbb{N}} (\cite{Description}) \cite{Description} \end{Description} $$\lim_{\alpha\to\infty} (\cite{Description}) \cite{Description} \end{De$ 

### Unknown directive type "method".

```
.. method:: remove(key)

__delitem__(key)
discard(key)
```

These methods immediately delete the message. The MH convention of marking  $% \left( 1\right) =\left( 1\right) \left( 1\right)$ 

 $System\,Message: ERROR/3~(\colored in g-resources) sample-onboarding-resources \colored in Jocolibrary) (cpython-main) (Doc) (library) mailbox.rst, line 587)$ 

#### Unknown directive type "method".

.. method:: lock() unlock(

Three locking mechanisms are used---dot locking and, if available, the :c:func:`flock` and :c:func:`lockf` system calls. For MH mailboxes, locking the mailbox means locking the :file:`.mh\_sequences` file and, only for the duration of any operations that affect them, locking individual message files.

 $System\,Message: ERROR/3~(\colored in g-resources) sample-onboarding-resources \colored in Jocolibrary (cpython-main)~(Doc)~(library) mailbox.rst, line~597)$ 

#### Unknown directive type "method".

.. method:: get file(key)

Depending upon the host platform, it may not be possible to remove the underlying message while the returned file remains open.

 $System\,Message: ERROR/3~(\colored in g-resources) sample-onboarding-resources \colored in Jocolibrary) (cpython-main) (Doc) (library) mailbox.rst, line 603)$ 

#### Unknown directive type "method".

.. method:: flush()

All changes to MH mailboxes are immediately applied, so this method does nothing.

 $System\,Message: ERROR/3~(\colored in g-resources) sample-onboarding-resources \colored in Jocolibrary) (cpython-main) (Doc) (library) mailbox.rst, line 609)$ 

#### Unknown directive type "method".

.. method:: close()

:class:`MH' instances do not keep any open files, so this method is equivalent to :meth:`unlock`.

 $System\,Message: ERROR/3 \ (\cite{Continuous} and index of the continuous and index of the continuous continuous and index of the continuous continuous continuous and index of the continuous contin$ 

### Unknown directive type "seealso".

.. seealso::

`nmh - Message Handling System <a href="http://www.nongnu.org/nmh/>" Home page of :program:`nmh", an updated version of the original :program:`mh".

`MH & nmh: Email for Users & Programmers <a href="https://rand-mh.sourceforge.io/book/>" A GPL-licensed book on :program: mh" and :program: nmh", with some information on the mailbox format.

### :class:`Babyl`

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\((cpython-main)\ (Doc)\ (1) brary\mailbox.rst, line 627); backlink

Unknown interpreted text role "class".

A subclass of <code>class:'Mailbox'</code> for mailboxes in Babyl format. Parameter <code>factory</code> is a callable object that accepts a file-like message representation (which behaves as if opened in binary mode) and returns a custom representation. If <code>factory</code> is <code>None</code>, <code>class:'BabylMessage'</code> is used as the default message representation. If <code>create</code> is <code>True</code>, the mailbox is created if it does not exist.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library)mailbox.rst, line 633); backlink

Unknown interpreted text role "class".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\((cpython-main)\ (Doc)\ (1) brary\ mailbox.rst, line 633); backlink

Unknown interpreted text role "class".

Babyl is a single-file mailbox format used by the Rmail mail user agent included with Emacs. The beginning of a message is indicated by a line containing the two characters Control-Underscore (' $\037'$ ) and Control-L(' $\014'$ ). The end of a message is indicated by the start of the next message or, in the case of the last message, a line containing a Control-Underscore (' $\037'$ ) character.

Messages in a Babyl mailbox have two sets of headers, original headers and so-called visible headers. Visible headers are typically a subset of the original headers that have been reformatted or abridged to be more attractive. Each message in a Babyl mailbox also has an accompanying list of adhir labels, or short strings that record extra information about the message, and a list of all user-defined labels found in the mailbox is kept in the Babyl options section.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library)mailbox.rst, line 647); backlink

Unknown interpreted text role "dfin".

:class:'Babyl' instances have all of the methods of :class:'Mailbox' in addition to the following:

 $System\,Message: ERROR/3~\cite{Continuous} a maple-onboarding-resources $$ \cite{Continuous} (python-main) (Doc) (library) mailbox.rst, line 655); backlink $$ \cite{Continuous} (Doc) (Doc$ 

Unknown interpreted text role "class".

 $System\,Message: ERROR/3 \ (\cite{Continuous} a continuous sample-onboarding-resources \cite{Continuous} and continuous sample-onboarding-resources \cite{$ 

Unknown interpreted text role "class".

 $System\,Message: ERROR/3~(\colored in g-resources) sample-onboarding-resources \colored in Jocolibrary) (cpython-main) (Doc) (library) mailbox.rst, line 659)$ 

Unknown directive type "method".

.. method:: get\_labels()

Return a list of the names of all user-defined labels used in the mailbox.

note··

The actual messages are inspected to determine which labels exist in the mailbox rather than consulting the list of labels in the Babyl options section, but the Babyl section is updated whenever the mailbox is modified.

Some :class: 'Mailbox' methods implemented by :class: 'Babyl' deserve special remarks:

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library)mailbox.rst, line 670); backlink

Unknown interpreted text role "class".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library)mailbox.rst, line 670); backlink

Unknown interpreted text role "class".

 $System\,Message: ERROR/3~(\colored in g-resources) sample-onboarding-resources \colored in Jocolibrary (cpython-main)~(Doc)~(library) mailbox.rst, line~674)$ 

Unknown directive type "method".

.. method:: get\_file(key)

In Babyl mailboxes, the headers of a message are not stored contiguously with the body of the message. To generate a file-like representation, the headers and body are copied together into an :class:`io.BytesIO` instance, which has an API identical to that of a file. As a result, the file-like object is truly independent of the underlying mailbox but does not save memory compared to a string representation.

 $System\,Message: ERROR/3~(\colored in g-resources) sample-onboarding-resources \colored in Jocolibrary (cpython-main) (Doc) (library) mailbox.rst, line 685)$ 

Unknown directive type "method".

.. method:: lock() unlock()

Three locking mechanisms are used---dot locking and, if available, the :c:func:`flock` and :c:func:`lockf` system calls.

 $System Message: ERROR/3 \ ( \texttt{D: \cohboarding-resources \cohboardi$ 

Unknown directive type "seealso".

.. seealso:

`Format of Version 5 Babyl Files <a href="https://quimby.gnus.org/notes/BABYL">L>`\_A specification of the Babyl format.

`Reading Mail with Rmail <a href="https://www.gnu.org/software/emacs/manual/html\_node/emacs/">httml>`\_</a> The Rmail manual, with some information on Babyl semantics.

:class:`MMDF`

 $System\,Message: ERROR/3~(\cite{Description}) \label{linear} $$\operatorname{Corp}(\cite{Description}) $$ (\cite{Description}) $$ (\cite{$ 

Unknown interpreted text role "class".

A subclass of <code>rclass</code>: <code>Mailbox</code> for mailboxes in MMDF format. Parameter <code>factory</code> is a callable object that accepts a file-like message representation (which behaves as if opened in binary mode) and returns a custom representation. If <code>factory</code> is <code>None</code>, <code>rclass</code>: <code>MMDFMessage</code>' is used as the default message representation. If <code>create</code> is <code>True</code>, the mailbox is created if it does not exist.

 $System\,Message:\,ERROR/3\,(\text{D:}\cdots) - resources\cdots - sample-onboarding-resources\cdots - cpython-onboarding-resources) - resources\cdots - resources\$ \library\(cpython-main) (Doc) (library)mailbox.rst, line 709); backlink

Unknown interpreted text role "class".

MMDF is a single-file mailbox format invented for the Multichannel Memorandum Distribution Facility, a mail transfer agent. Each message is in the same form as an mbox message but is bracketed before and after by lines containing four Control-A ( characters. As with the mbox format, the beginning of each message is indicated by a line whose first five characters are "From", but additional occurrences of "From" are not transformed to ">From" when storing messages because the extra message separator lines prevent mistaking such occurrences for the starts of subsequent messages

Some :class: Mailbox' methods implemented by :class: MMDF' deserve special remarks:

 $System\,Message:\,ERROR/3\;(\text{D:}\colored ing-resources}\colored ing-resources)$ ain\Doc\library\(cpython-main) (Doc) (library)mailbox.rst, line 725); backlink

Unknown interpreted text role "class".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpythonmain\Doc\library\(cpython-main) (Doc) (library)mailbox.rst, line 725); backlink

Unknown interpreted text role "class".

 $System\,Message:\,ERROR/3\,(\texttt{D:}\nonlineg-resources}\ \texttt{Sample-onboarding-resources}\ \texttt{Cpython-onboarding-resources}\ \texttt{Conboarding-resources}\ \texttt{C$ ain\Doc\library\(cpython-main) (Doc) (library)mailbox.rst, line 729)

Unknown directive type "method".

```
.. method:: get file(key)
  Using the file after calling :meth:`flush` or :meth:`close` on the
  :class:`MMDF` instance may yield unpredictable results or raise an
  exception.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpythonmain\Doc\library\(cpython-main)(Doc)(library)mailbox.rst, line 736)

Unknown directive type "method".

```
.. method:: lock()
  Three locking mechanisms are used---dot locking and, if available, the
  :c:func:`flock` and :c:func:`lockf` system calls.
```

 $System\,Message:\,ERROR/3\,(\texttt{D:}\nonlineg-resources}\ \texttt{Sample-onboarding-resources}\ \texttt{Cpython-onboarding-resources}\ \texttt{Conboarding-resources}\ \texttt{C$ ain\Doc\library\(cpython-main) (Doc) (library)mailbox.rst, line 743)

Unknown directive type "seealso".

```
.. seealso::
                           `mmdf man page from tin <a href="http://www.tin.org/bin/man.cgi?section=5&topic=mmdf">" and page from tin <a href="http://www.tin.org/bin/man.cgi?section=5&topi
                                             A specification of MMDF format from the documentation of tin, a newsreader.
                          `MMDF <https://en.wikipedia.org/wiki/MMDF>
                                                A Wikipedia article describing the Multichannel Memorandum Distribution
                                                Facility.
```

# :class:'Message' objects

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources n\Doc\library\(cpython-main) (Doc) (library)mailbox.rst, line 755); backlink

Unknown interpreted text role "class".

A subclass of the .mod.'email.message' module's .class:'~email.message.Message'. Subclasses of .class:'mailbox.Message' add mailbox-format-specific state and behavior.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources) main\Doc\library\(cpython-main) (Doc) (library)mailbox.rst, line 761); backlink

Unknown interpreted text role "mod".

 $System\,Message:\,ERROR/3\,(\text{D:}\label{locality}) and ording-resources \verb|\sample-onboarding-resources|| and ording-resources |\sample-onboarding-resources|| and ording-resources|| and ordinal-resources|| are or$ tin\Doc\library\(cpython-main) (Doc) (library)mailbox.rst, line 761); backlink

Unknown interpreted text role "class".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpythonain\Doc\library\(cpython-main)(Doc)(library)mailbox.rst, line 761); backlink

Unknown interpreted text role "class".

If message is omitted, the new instance is created in a default, empty state. If message is an class: email.message. Message instance, its contents are copied; furthermore, any format-specific information is converted insofar as possible if message is a class; Message instance. If message is a string, a byte string, or a file, it should contain an RFC 2822-compliant message, which is read and parsed. Files should be open in binary mode, but text mode files are accepted for backward compatibility.

 $System\,Message:\,ERROR/3\,(\text{D:}\onboarding-resources}\space) ample-onboarding-resources\space) and the control of the control$ main\Doc\library\(cpython-main) (Doc) (library)mailbox.rst, line 765); backlink

Unknown interpreted text role "class".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) mailbox.rst, line 765); backlink

Unknown interpreted text role "class".

The format-specific state and behaviors offered by subclasses vary, but in general it is only the properties that are not specific to a particular mailbox that are supported (although presumably the properties are specific to a particular mailbox format). For example, file offsets for single-file mailbox formats and file names for directory-based mailbox formats are not retained, because they are only applicable to the original mailbox. But state such as whether a message has been read by the user or marked as important is retained, because it applies to the message itself.

There is no requirement that <code>class:'Message'</code> instances be used to represent messages retrieved using <code>class:'Mailbox'</code> instances. In some situations, the time and memory required to generate <code>class:'Message'</code> representations might not be acceptable. For such situations, <code>class:'Mailbox'</code> instances also offer string and file-like representations, and a custom message factory may be specified when a <code>class:'Mailbox'</code> instance is initialized.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library\mailbox.rst, line 783); backlink

Unknown interpreted text role "class".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library)mailbox.rst, line 783); backlink

Unknown interpreted text role "class".

 $System \, Message: ERROR/3 \ ( \verb|D:\onboarding-resources| sample-onboarding-resources| cpython-main| Doc| library| (cpython-main| (Doc| (library| mailbox.rst, line 783); backlink| line 783); backli$ 

Unknown interpreted text role "class".

 $System\,Message: ERROR/3~(\colored in g-resources) sample-onboarding-resources \colored in Jocolibrary \colored in Jocolibrary) and Locolibrary \colored in Jocolibrary \colo$ 

Unknown interpreted text role "class".

 $System \, Message: ERROR/3 \ ( \verb|D:\onboarding-resources \rangle sample-onboarding-resources \rangle copython-main \ ( \verb|Doc \rangle ( \verb|library \rangle ) mailbox.rst, line 783); \textit{backlink}$ 

Unknown interpreted text role "class".

:class:`MaildirMessage`

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library)mailbox.rst, line 793); backlink

Unknown interpreted text role "class".

A message with Maildir-specific behaviors. Parameter message has the same meaning as with the :class: Message` constructor.

Unknown interpreted text role "class".

Typically, a mail user agent application moves all of the messages in the :file: 'new' subdirectory to the :file: 'cur' subdirectory after the first time the user opens and closes the mailbox, recording that the messages are old whether or not they've actually been read. Each message in :file: 'cur' has an "info" section added to its file name to store information about its state. (Some mail readers may also add an "info" section to messages in :file: 'new'.) The "info" section may take one of two forms: it may contain "2," followed by a list of standardized flags (e.g., "2,FR") or it may contain "1," followed by so-called experimental information. Standard flags for Maildir messages are as follows:

 $System\,Message: ERROR/3~(\colored in g-resources) sample-onboarding-resources \colored in Jocolibrary (cpython-main) (Doc) (library) mailbox.rst, line 802); backlink$ 

Unknown interpreted text role "file".

 $System\,Message: ERROR/3~(\colored in g-resources) sample-onboarding-resources \colored in Doc\library\colored in Joc\library\colored in Joc\library\colored in B02); backlink$ 

Unknown interpreted text role "file".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library)mailbox.rst, line 802); backlink

Unknown interpreted text role "file".

 $System\,Message: ERROR/3~(\colored in g-resources) sample-onboarding-resources \colored in Jocolibrary \colored in Jocolibrary) and Locolibrary \colored in Jocolibrary \colo$ 

Flag	Meaning	Explanation
D	Draft	Under composition
F	Flagged	Marked as important
P	Passed	Forwarded, resent, or bounced
R	Replied	Replied to
S	Seen	Read
T	Trashed	Marked for subsequent deletion

Unknown interpreted text role "class".

 $System\,Message: ERROR/3~\cite{Continuous} a continuous and independent of the continuous and the continuou$ 

Unknown directive type "method".

subdirectory).

.. method:: get\_subdir()

Return either "new" (if the message should be stored in the :file:`new`
subdirectory) or "cur" (if the message should be stored in the :file:`cur`

note..

A message is typically moved from :file:`new` to :file:`cur` after its mailbox has been accessed, whether or not the message is has been read. A message ``msg`` has been read if ``"S" in msg.get\_flags()`` is ``True``.

 $System\,Message: ERROR/3 \ (\cite{Control} in pressure sample-onboarding-resources \cite{Control} in pressure sample-onb$ 

Unknown directive type "method".

.. method:: set\_subdir(subdir)

Set the subdirectory the message should be stored in. Parameter \*subdir\* must be either "new" or "cur".

 $System\,Message: ERROR/3 \ (\cite{Continuous} a continuous and in general continuous and in the continuous an$ 

Unknown directive type "method".

.. method:: get flags()

Return a string specifying the flags that are currently set. If the message complies with the standard Maildir format, the result is the concatenation in alphabetical order of zero or one occurrence of each of `'D'', `'F'', `'P'', ''R'', ''S'', and `'T'''. The empty string is returned if no flags are set or if "info" contains experimental semantics

Unknown directive type "method".

.. method:: set\_flags(flags)
 Set the flags specified by \*flags\* and unset all others.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\((cpython-main)\ (Doc)\ (1ibrary)\ mailbox.rst, line 867)

Unknown directive type "method".

.. method:: add\_flag(flag)

Set the flag(s) specified by \*flag\* without changing other flags. To add more than one flag at a time, \*flag\* may be a string of more than one character. The current "info" is overwritten whether or not it contains experimental information rather than flags.

 $System\,Message: ERROR/3~\cite{Continuous} a mapple-onboarding-resources $$ \cite{Continuous} (opython-main) (oc) (library) mailbox.rst, line 875)$ 

Unknown directive type "method".

.. method:: remove\_flag(flag)

Unset the flag(s) specified by \*flag\* without changing other flags. To remove more than one flag at a time, \*flag\* maybe a string of more than one character. If "info" contains experimental information rather than flags, the current "info" is not modified.

 $System\,Message: ERROR/3 \ (\cite{Continuous} a continuous and index of the continuous and the continuous a$ 

Unknown directive type "method".

.. method:: get date()

Return the delivery date of the message as a floating-point number representing seconds since the epoch.  $\,$ 

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library)mailbox.rst, line 889)

Unknown directive type "method".

.. method:: set date(date)

Set the delivery date of the message to \*date\*, a floating-point number representing seconds since the epoch.

Unknown directive type "method".

.. method:: get info()

Return a string containing the "info" for a message. This is useful for accessing and modifying "info" that is experimental (i.e., not a list of flags).

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library)mailbox.rst, line 902)

Unknown directive type "method".

.. method:: set\_info(info)
Set "info" to \*info\*, which should be a string.

When a :class: MaildirMessage' instance is created based upon an :class: mboxMessage' or :class: MMDFMessage' instance, the :mailheader: Status' and :mailheader: X-Status' headers are omitted and the following conversions take place:

 $System\ Message: ERROR/3\ (D:\onboarding-resources\sample-onboarding-resources\cpython-main\cp$ 

Unknown interpreted text role "class".

 $System\,Message: ERROR/3~(\colored in g-resources) sample-onboarding-resources \colored in Doc\library (cpython-main)~(Doc)~(library) mailbox.rst, line~906); backlink$ 

Unknown interpreted text role "class".

 $System\,Message: ERROR/3~(\colored in g-resources) sample-onboarding-resources \colored in Jocolibrary \colored in Jocolibrary) and Jocolibrary \colored in Jocolibrary \colo$ 

Unknown interpreted text role "class".

 $System\ Message: ERROR/3\ (\mbox{D:\nboarding-resources}\ sample-onboarding-resources\ \c) thornain\ \mbox{Doc\library}\ (cpython-main)\ (\mbox{Doc}\ (\mbox{library}\ mailbox.rst, line\ 906); \mbox{\it backlink}\ )$ 

Unknown interpreted text role "mailheader".

 $System\,Message: ERROR/3 \ (\cite{Continuous} a continuous and independent of the continuous and the contin$ 

Unknown interpreted text role "mailheader".

Resulting state

 $: class: `mbox Message`\ or\ : class: `MMDFMessage`\ state$ 

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) mailbox.rst, line 913); backlink

Unknown interpreted text role "class".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)\) (Doc) (library)mailbox.rst, line 913); backlink

Unknown interpreted text role "class".

"cur" subdirectory	O flag
F flag	F flag
R flag	A flag
S flag	R flag
S flag T flag	D flag

When a <code>:class:'MaildirMessage'</code> instance is created based upon an <code>:class:'MHMessage'</code> instance, the following conversions take place:

 $System\,Message: ERROR/3 \ (\cite{Continuous} a continuous and in pressure and in the continuous and in the c$ 

Unknown interpreted text role "class".

 $System\,Message: ERROR/3~(\colored in g-resources) sample-onboarding-resources \colored in Doc\library (cpython-main)~(Doc)~(library) mailbox.rst, line~926); backlink$ 

:class:`MHMessage` state System Message: ERROR/3 onboarding-resources\cpython-Resulting state main\Doc\library\(cpython-main) (Doc) (library) mailbox.rst, line 931); backlink Unknown interpreted text role "class". "cur" subdirectory "unseen" sequence "cur" subdirectory and S flag no "unseen" sequence "flagged" sequence R flag "replied" sequence

When a class: 'MaildirMessage' instance is created based upon a class: 'BabylMessage' instance, the following conversions take place:

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library)mailbox.rst, line 941); backlink
Unknown interpreted text role "class".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library)mailbox.rst, line 941); backlink
Unknown interpreted text role "ckass".

:class:`BabylMessage` state System Message: ERROR/3 (D:\onboarding-resources\sampleonboarding-resources\cpython-Resulting state main\Doc\library\(cpython-main) (Doc) (library)mailbox.rst, line 946); backlink Unknown interpreted text role "class". "unseen" label "cur" subdirectory "cur" subdirectory and S flag no "unseen" label "forwarded" or "resent" label P flag R flag "answered" label T flag "deleted" label

## :class:`mboxMessage`

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)\) (Doc) (library)mailbox.rst, line 961); backlink
Unknown interpreted text role "class".

A message with mbox-specific behaviors. Parameter message has the same meaning as with the "class: "Message" constructor.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library)mailbox.rst, line 967); backlink
Unknown interpreted text role "class".

Messages in an mbox mailbox are stored together in a single file. The sender's envelope address and the time of delivery are typically stored in a line beginning with "From" that is used to indicate the start of a message, though there is considerable variation in the exact format of this data among mbox implementations. Flags that indicate the state of the message, such as whether it has been read or marked as important, are typically stored in "mailheader: Status" and "mailheader: X-Status" headers.

 $System \, Message: ERROR/3 \ ( \texttt{D: \cohboarding-resources \cohording-resources \cohording-r$ 

Unknown interpreted text role "mailheader".

Unknown interpreted text role "mailheader".

Conventional flags for mbox messages are as follows:

Flag	Meaning	Explanation
R	Read	Read
О	Old	Previously detected by MUA
D	Deleted	Marked for subsequent deletion
F	Flagged	Marked as important
A	Answered	Replied to

The "R" and "O" flags are stored in the "mailheader.' Status' header, and the "D", "F", and "A" flags are stored in the "mailheader.' X-Status' header. The flags and headers typically appear in the order mentioned.

 $System\ Message: ERROR/3\ (\ b:\ onboarding-resources\ sample-onboarding-resources\ cpython-main\ ) Doc\ (library\ mailbox.rst, line\ 994); \textit{backlink}$ 

Unknown interpreted text role "mailheader".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library)mailbox.rst, line 994); backlink

Unknown interpreted text role "mailheader".

:class:`mboxMessage` instances offer the following methods:

 $System\,Message:\,ERROR/3\,(\text{D:}\conboarding-resources}\conboarding-resources\conboarding-resources}\conboarding-resources\conboardi$ main\Doc\library\(cpython-main) (Doc) (library)mailbox.rst, line 998); backlink

Unknown interpreted text role "class".

main\Doc\library\(cpython-main) (Doc) (library)mailbox.rst, line 1001)

Unknown directive type "method".

.. method:: get from()

Return a string representing the "From " line that marks the start of the message in an mbox mailbox. The leading "From " and the trailing newline  $\frac{1}{2}$ " and  $\frac{1}{2}$ " and  $\frac{1}{2}$ " are the start of the message in an mbox mailbox. The leading "From " and the trailing newline  $\frac{1}{2}$ " and  $\frac{1}{2}$ " are the start of the message in an mbox mailbox. are excluded.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpythonmain\Doc\library\(cpython-main) (Doc) (library)mailbox.rst, line 1008)

Unknown directive type "method".

.. method:: set from(from , time =None)

Set the "From " line to \*from\_\*, which should be specified without a leading "From " or trailing newline. For convenience, \*time\_\* may be specified and will be formatted appropriately and appended to \*from\_\*. If \*time\_\* is specified, it should be a :class:`time.struct\_time` instance, a tuple suitable for passing to :meth:`time.strftime`, or ``True`` (to use :meth:`time.gmtime`).

 $System\,Message:\,ERROR/3\, (\hbox{D:$\onboarding-resources}) sample-onboarding-resources \verb|\color=ding-resources|| to the color=ding-resources | to the color=ding-resources|| to the color=din$ main\Doc\library\(cpython-main) (Doc) (library)mailbox.rst, line 1018)

Unknown directive type "method".

.. method:: get flags()

Return a string specifying the flags that are currently set. If the message complies with the conventional format, the result is the concatenation in the following order of zero or one occurrence of each of  $(R^{1/2}, (R^{1/2}, R^{1/2}), (R^{1/2}, R^{1/2}))$ , and  $(R^{1/2}, R^{1/2}, R^{1/2})$ .

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpythonmain\Doc\library\(cpython-main) (Doc) (library)mailbox.rst, line 1026)

Unknown directive type "method".

.. method:: set flags(flags)

Set the flags specified by \*flags\* and unset all others. Parameter \*flags\* should be the concatenation in any order of zero or more occurrences of each of ``'R'``, ``'O'``, ``'B'``, and ``'A'``.

 $System\,Message:\,ERROR/3\,(\texttt{D:}\nonlineseques) sample-onboarding-resources \verb|\colored|| constraints of the contraction of the$ in\Doc\library\(cpython-main) (Doc) (library)mailbox.rst, line 1033)

Unknown directive type "method".

.. method:: add\_flag(flag)

Set the flag(s) specified by \*flag\* without changing other flags. To add more than one flag at a time, \*flag\* may be a string of more than one character.

 $System\,Message:\,ERROR/3\, (\hbox{\tt D:\noboarding-resources} \backslash sample-onboarding-resources \backslash sample$ main\Doc\library\(cpython-main) (Doc) (library)mailbox.rst, line 1040)

Unknown directive type "method".

.. method:: remove flag(flag)

Unset the flag(s) specified by \*flag\* without changing other flags. To remove more than one flag at a time, \*flag\* maybe a string of more than one character.

When an :class; 'mboxMessage' instance is created based upon a :class; 'MaildirMessage' instance, a "From" line is generated based upon the :class: MaildirMessage' instance's delivery date, and the following conversions take place:

 $System\,Message:\,ERROR/3\,(\text{D:}\comboarding-resources}\comple-onboarding-resources)$ main\Doc\library\(cpython-main) (Doc) (library)mailbox.rst, line 1046); backlink

Unknown interpreted text role "class".

 $System\,Message:\,ERROR/3\,(\text{D:}\cdot\color="color=$ ain\Doc\library\(cpython-main) (Doc) (library)mailbox.rst, line 1046); backlink

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)\Doc\library\(cpython-main)\Doc\library\) (both of the statement of the state

Unknown interpreted text role "class".

:class:`MaildirMessage` state System Message: ERROR/3 (D:\onboardingmple-onboarding-resources\cpython-Resulting state main\Doc\library\(cpython-main) (Doc) (library)mailbox.rst, line 1053); backlink Unknown interpreted text role "class". R flag S flag O flag "cur" subdirectory D flag T flag F flag F flag R flag A flag

When an class: mboxMessage' instance is created based upon an class: MHMessage' instance, the following conversions take place:

 $System\,Message: ERROR/3~(\colored in g-resources) sample-onboarding-resources \colored in Jocolibrary \colored in Jocolibrary) and Locolibrary \colored in Jocolibrary \colo$ 

Unknown interpreted text role "class".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library)mailbox.rst, line 1065); backlink

Unknown interpreted text role "class".

#### :class:`MHMessage` state System Message: ERROR/3 (D:\onboardingresources\sample-onboarding resources\cpython-main\Doc\library\(cpython-Resulting state main) (Doc) (library) mailbox.rst, line 1070); backlink Unknown interpreted text role "class". R flag and O flag no "unseen" sequence "unseen" sequence O flag F flag "flagged" sequence A flag "replied" sequence

When an <code>xclass:'mboxMessage'</code> instance is created based upon a <code>xclass:'BabylMessage'</code> instance, the following conversions take place:

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library)mailbox.rst, line 1080); backlink
Unknown interpreted text role "class".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library)mailbox.rst, line 1080); backlink
Unknown interpreted text role "class".

	:class:`BabylMessage` state
Resulting state	System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)\Doc\) (library\mailbox.rst, line 1085); backlink Unknown interpreted text role "class".
R flag and O flag	no "unseen" label
O flag	"unseen" label
D flag	"deleted" label
A flag	"answered" label

When a <code>xclass:'Message'</code> instance is created based upon an <code>xclass:'MMDFMessage'</code> instance, the "From" line is copied and all flags directly correspond:

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library)mailbox.rst, line 1095); backlink

Unknown interpreted text role "class".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)\ (Doc) (library) mailbox.rst, line 1095); backlink

	:class:`MMDFMessage` state	
Resulting state	System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library\mailbox.rst, line 1100); backlink Unknown interpreted text role "class".	
R flag	R flag	
O flag	O flag	
D flag	D flag	
F flag	F flag	
A flag	A flag	

:class:`MHMessage`

 $System\ Message: ERROR/3\ (\ D:\ \ \ \ \ ) conboarding-resources \ \ \ \ \ ) main\ Doc\ library\ (cpython-main\ )\ (Doc)\ (library)\ mailbox.rst,\ line\ 1115); \ backlink$ 

Unknown interpreted text role "class".

 $A \ message \ with \ MH-specific \ behaviors. \ Parameter \ \textit{message} \ has \ the \ same \ meaning \ as \ with \ the \ : \textit{class:} \ 'Message' \ constructor.$ 

 $System Message: ERROR/3 \ ( \verb|D:\onboarding-resources| sample-onboarding-resources| cpython-main| Doc| library| (cpython-main| (Doc| (library| mailbox.rst, line 1121); backlink|$ 

Unknown interpreted text role "class".

MH messages do not support marks or flags in the traditional sense, but they do support sequences, which are logical groupings of arbitrary messages. Some mail reading programs (although not the standard 'programs' mh' and 'programs' mh') use sequences in much the same way flags are used with other formats, as follows:

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library)mailbox.rst, line 1124); backlink

Unknown interpreted text role "program".

Unknown interpreted text role "program".

Sequence	Explanation
unseen	Not read, but previously detected by MUA
replied	Replied to
flagged	Marked as important

:class:'MHMessage' instances offer the following methods:

 $System \, Message: ERROR/3 \ ( \verb|D:\onboarding-resources| sample-onboarding-resources| cpython-main| Doc| library| (cpython-main| (Doc| (library| mailbox.rst, line 1140); backlink| line 1140); backlink| line 1140| line$ 

Unknown interpreted text role "class".

 $System\,Message: ERROR/3~(\cite{Continuous}) a maple-onboarding-resources $$ \cite{Continuous} (\cite{Continuous}) (\cite{Con$ 

Unknown directive type "method".

.. method:: get sequences()

Return a list of the names of sequences that include this message.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) mailbox.rst, line 1148)

Unknown directive type "method".

```
.. method:: set_sequences(sequences)
```

Set the list of sequences that include this message.

 $System\,Message: ERROR/3 \ (\cite{Continuous} a continuous and in pressure and in the continuous and continuous$ 

Unknown directive type "method".

```
.. method:: add_sequence(sequence)
```

Add \*sequence\* to the list of sequences that include this message.

 $System\,Message: ERROR/3~(\colored in g-resources) sample-onboarding-resources \colored in Jocolibrary) (cpython-main) (Doc) (library) mailbox.rst, line 1158)$ 

Unknown directive type "method".

```
.. method:: remove_sequence(sequence)
```

Remove \*sequence\* from the list of sequences that include this message.

When an class: MHMessage' instance is created based upon a class: MaildirMessage' instance, the following conversions take place:

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)\ (Doc) (library)mailbox.rst, line 1162); backlink
Unknown interpreted text role "class".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library)mailbox.rst, line 1162); backlink

Unknown interpreted text role "class".

	:class:`MaildirMessage` state
Resulting state	System Message: ERROR/3 (p:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) mailbox.rst, line 1167); backlink Unknown interpreted text role "class".
"unseen" sequence	no S flag
"replied" sequence	R flag
"flagged" sequence	F flag

When an class; MHMessage' instance is created based upon an class; mboxMessage' or class; MMDFMessage' instance, the mailheader; Status' and mailheader; X-Status' headers are omitted and the following conversions take place:

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)\) (Doc) (library)mailbox.rst, line 1175); backlink
Unknown interpreted text role "class".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)\) (Doc) (library)mailbox.rst, line 1175); backlink
Unknown interpreted text role "class".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)\) (Doc) (library)mailbox.rst, line 1175); backlink
Unknown interpreted text role "class".

Childwin interpreted text lose class.

 $System\ Message: ERROR/3\ (\texttt{D:\onboarding-resources}\ sample-onboarding-resources\ cpython-main\ (\texttt{Doc}\ (\texttt{library}\ nailbox.rst, line\ 1175); \textit{backlink}$ 

Unknown interpreted text role "mailheader".

 $System\ Message: ERROR/3\ (\ D:\ \ \ \ \ ) conboarding-resources \ \ \ \ \ ) in error in \ \ \ \ \ ) (boc)\ (library)\ mailbox.rst, line\ 1175); backlink$ 

Unknown interpreted text role "mailheader".

	:class:'mboxMessage' or :class:'MMDFMessage' state
Resulting state	System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\Doc\); backlink Unknown interpreted text role "class".
	System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library)mailbox.rst, line 1182); backlink Unknown interpreted text role "class".
"unseen" sequence	no R flag
"replied" sequence	A flag
"flagged" sequence	F flag

When an :class: MHMessage' instance is created based upon a :class: BabylMessage' instance, the following conversions take place:

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)\) (Doc) (library) mailbox.rst, line 1191); backlink
Unknown interpreted text role "class".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)\) (Doc) (library)mailbox.rst, line 1191); backlink
Unknown interpreted text role "class".

	:class:'BabylMessage' state
Resulting state	System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) mailbox.rst, line 1196); backlink Unknown interpreted text role "class".
"unseen" sequence	"unseen" label
"replied" sequence	"answered" label

## :class:`BabylMessage`

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)\ (Doc) (library) mailbox.rst, line 1205); backlink
Unknown interpreted text role "class".

A message with Babyl-specific behaviors. Parameter message has the same meaning as with the :class:'Message' constructor.

 $System\ Message: ERROR/3\ (D:\onboarding-resources\space) sample-onboarding-resources\space (python-main\space) for the property of the prop$ 

Unknown interpreted text role "class".

Certain message labels, called <a href="mailto:attributes">attributes</a>', are defined by convention to have special meanings. The attributes are as follows:

Unknown interpreted text role "dfn".

Label	Explanation
13000000	Not read, but previously detected by
unseen	MUA
deleted	Marked for subsequent deletion
filed	Copied to another file or mailbox
answered	Replied to
forwarded	Forwarded
edited	Modified by the user
resent	Resent

By default, Rmail displays only visible headers. The "class: BabylMessage" class, though, uses the original headers because they are more complete. Visible headers may be accessed explicitly if desired.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library)mailbox.rst, line 1235; backlink
Unknown interpreted text role "class".

:class:`BabylMessage` instances offer the following methods:

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)\ (Doc) (library)mailbox.rst, line 1239); backlink

Unknown interpreted text role "class".

Unknown directive type "method".

```
.. method:: get_labels()

Return a list of labels on the message.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library)mailbox.rst, line 1247)

Unknown directive type "method".

```
.. method:: set_labels(labels)

Set the list of labels on the message to *labels*.
```

 $System\,Message: ERROR/3~(\colored in g-resources) sample-onboarding-resources \colored in Jocolibrary (cpython-main)~(Doc)~(library) mailbox.rst, line~1252)$ 

Unknown directive type "method".

```
.. method:: add_label(label)
Add *label* to the list of labels on the message.
```

 $System\,Message: ERROR/3~\mbox{\cite{Chargeness}} a constant of the control of t$ 

Unknown directive type "method".

```
.. method:: remove_label(label)
```

Remove \*label\* from the list of labels on the message.

 $System\,Message: ERROR/3~(\colored) are sources $$ \ample-onboarding-resources $$ \ample-onb$ 

## Unknown directive type "method".

.. method:: get\_visible()

Return an :class:`Message` instance whose headers are the message's visible headers and whose body is empty.

 $System\,Message: ERROR/3~(\colored in g-resources) sample-onboarding-resources \colored in Jocolibrary (cpython-main)~(Doc)~(library) mailbox.rst, line~1268)$ 

#### Unknown directive type "method".

.. method:: set\_visible(visible)

Set the message's visible headers to be the same as the headers in \*message\*. Parameter \*visible\* should be a :class: Message` instance, an :class: `email.message.Message` instance, a string, or a file-like object (which should be open in text mode).

 $System\,Message: ERROR/3~(\colored) arding-resources \colored) arding-resources \colored) are in Doc\library \colored) are in Doc\library \colored). The colored is the sum of the sum of$ 

#### Unknown directive type "method".

.. method:: update\_visible()

When a :class:`BabylMessage` instance's original headers are modified, the visible headers are not automatically modified to correspond. This method updates the visible headers as follows: each visible header with a corresponding original header is set to the value of the original header, each visible header without a corresponding original header is removed, and any of :mailheader:`Date`, :mailheader:`From`, :mailheader:`Reply-To`, :mailheader:`To`, :mailheader:`CC`, and :mailheader:`Subject` that are present in the original headers but not the visible headers are added to the visible headers.

When a :class: 'BabylMessage' instance is created based upon a :class: 'MaildirMessage' instance, the following conversions take place:

Unknown interpreted text role "class".

 $System\ Message: ERROR/3\ (\cite{Contour} a contour main/Doc/library/(cpython-main)\ (Doc)\ (library) mailbox.rst, line\ 1288); backlink$ 

Unknown interpreted text role "class".

	:class:`MaildirMessage` state
Resulting state	System Message: ERROR/3 (D:\onboarding- resources\sample-onboarding-resources\cpython- main\Doc\library\(cpython-main\) (Doc) (library) mailbox.rst, line 1293); backlink Unknown interpreted text role "class".
"unseen" label	no S flag
"deleted" label	T flag
"answered" label	R flag
"forwarded" label	P flag

When a <code>:class: BabylMessage'</code> instance is created based upon an <code>:class: mboxMessage'</code> or <code>:class: MMDFMessage'</code> instance, the <code>:mailheader: Status'</code> and <code>:mailheader: X-Status'</code> headers are omitted and the following conversions take place:

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library)mailbox.rst, line 1303); backlink

Unknown interpreted text role "class".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library)mailbox.rst, line 1303); backlink

Unknown interpreted text role "class".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library\mailbox.rst, line 1303); backlink

Unknown interpreted text role "class".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library)mailbox.rst, line 1303); backlink

Unknown interpreted text role "mailheader".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)\ (Doc) (library) mailbox.rst, line 1303); backlink

Unknown interpreted text role "mailheader".

:class:`mboxMessage` or :class:`MMDFMessage` state System Message: ERROR/3 (D:\onboarding-resources\sampleoarding-resources\cpython-main\Doc\library\(cpythonmain) (Doc) (library) mailbox.rst, line 1310); backlink Unknown interpreted text role "class". Resulting state System Message: ERROR/3 (D:\onboarding-resources\sampleonboarding-resources\cpython-main\Doc\library\(cpythonmain) (Doc) (library) mailbox.rst, line 1310); backlink Unknown interpreted text role "class". "unseen" label no R flag "deleted" label D flag "answered" label A flag

When a :class: BabylMessage' instance is created based upon an :class: MHMessage' instance, the following conversions take place:

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) mailbox.rst, line 1319); backlink
Unknown interpreted text role "class".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library)mailbox.rst, line 1319); backlink
Unknown interpreted text role "class".

	:class:`MHMessage` state
Resulting state	System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) mailbox.rst, line 1324); backlink Unknown interpreted text role "class".
"unseen" label	"unseen" sequence
"answered" label	"replied" sequence

# :class:`MMDFMessage`

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library)mailbox.rst, line 1333); backlink
Unknown interpreted text role "class".

A message with MMDF-specific behaviors. Parameter message has the same meaning as with the "class: 'Message' constructor.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library)mailbox.rst, line 1339); backlink
Unknown interpreted text role "class".

As with message in an mbox mailbox, MMDF messages are stored with the sender's address and the delivery date in an initial line beginning with "From". Likewise, flags that indicate the state of the message are typically stored in mailheader; Status' and mailheader; X-Status' headers.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) mailbox.rst, line 1342); backlink

Unknown interpreted text role "mailheader".

 $System\,Message: ERROR/3~\cite{Continuous} a main-onboarding-resources $$ \cite{Continuous} (opython-main) (oc) (library) mailbox.rst, line 1342); backlink $$$ 

Unknown interpreted text role "mailheader".

Conventional flags for MMDF messages are identical to those of mbox message and are as follows:

Flag	Meaning	Explanation
R	Read	Read
О	Old	Previously detected by MUA
D	Deleted	Marked for subsequent deletion
F	Flagged	Marked as important
Α	Answered	Replied to

The "R" and "O" flags are stored in the "mailheader: \Status\) header, and the "D", "F", and "A" flags are stored in the "mailheader: \X-Status\) header. The flags and headers typically appear in the order mentioned.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)\ (Doc) (library)mailbox.rst, line 1364); backlink

Unknown interpreted text role 'mailheader''.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library)mailbox.rst, line 1364); backlink

Unknown interpreted text role "mailheader".

:class: MMDFMessage' instances offer the following methods, which are identical to those offered by :class: mboxMessage':

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)\ (Doc) (library) mailbox.rst, line 1368); backlink

Unknown interpreted text role "class".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library)mailbox.rst, line 1368); backlink

Unknown interpreted text role "class".

 $System\,Message: ERROR/3~(\cite{Description}) \label{linear} \cite{Description} Library \cite{Description} \cite{Description}$ 

Unknown directive type "method".

.. method:: get from()

Return a string representing the "From " line that marks the start of the message in an mbox mailbox. The leading "From " and the trailing newline are excluded.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) mailbox.rst, line 1379)

Unknown directive type "method".

.. method:: set\_from(from\_, time\_=None)

Set the "From " line to \*from\_\*, which should be specified without a leading "From " or trailing newline. For convenience, \*time\_\* may be specified and will be formatted appropriately and appended to \*from\_\*. If \*time\_\* is specified, it should be a :class:`time.struct\_time` instance, a tuple suitable for passing to :meth:`time.strftime`, or ``True`` (to use :meth:`time.gmtime`).

 $System\,Message: ERROR/3~(\colored in g-resources) sample-onboarding-resources \colored in Jocolibrary)~(\colored in Joco$ 

Unknown directive type "method".

.. method:: get\_flags()

Return a string specifying the flags that are currently set. If the message complies with the conventional format, the result is the concatenation in the following order of zero or one occurrence of each of  $(R^{1/N}, (R^{1/N}, R^{1/N}, (R^{1/N}, R^{1/N}, R^{1/N}$ 

 $System \, Message: ERROR/3 \ ( \verb|D:\onboarding-resources| sample-onboarding-resources| cpython-main| Doc| library| (cpython-main| (Doc) (library| mailbox.rst, line 1397)$ 

Unknown directive type "method".

.. method:: set\_flags(flags)

Set the flags specified by \*flags\* and unset all others. Parameter \*flags\* should be the concatenation in any order of zero or more occurrences of each of ``'R'``, ``'O'``, ``'D'``, ``'F'``, and ``'A'``.

 $System\,Message: ERROR/3~(\colored in g-resources) sample-onboarding-resources \colored in Jocolibrary (cpython-main)~(Doc)~(library) mailbox.rst, line~1404)$ 

Unknown directive type "method".

.. method:: add\_flag(flag)

Set the flag(s) specified by \*flag\* without changing other flags. To add more than one flag at a time, \*flag\* may be a string of more than one character.

 $System\,Message: ERROR/3~(\colored in g-resources) sample-onboarding-resources \colored in Jocolibrary (cpython-main)~(Doc)~(library) mailbox.rst, line~1411)$ 

Unknown directive type "method".

.. method:: remove\_flag(flag)

Unset the flag(s) specified by \*flag\* without changing other flags. To remove more than one flag at a time, \*flag\* maybe a string of more than one character.

When an <code>class:`MMDFMessage`</code> instance is created based upon a <code>class:`MaildirMessage`</code> instance, a "From" line is generated based upon the <code>class:`MaildirMessage`</code> instance's delivery date, and the following conversions take place:

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\((cpython-main) (Doc) (library)mailbox.rst, line 1417); backlink

Unknown interpreted text role "class".

 $System\ Message: ERROR/3\ (\ D:\ \ \ \ \ \ ) time\ 1417; backlink$ 

Unknown interpreted text role "class".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\((cpython-main)\) (Doc) (library) mailbox.rst, line 1417); backlink

Unknown interpreted text role "class".

	:class:`MaildirMessage` state	
Resulting state	System Message: ERROR/3 (p:\onboarding- resources\sample-onboarding-resources\cpython- main\Doc\library\(cpython-main\) (Doc) (library) mailbox.rst, line 1424); backlink Unknown interpreted text role "class".	
R flag	S flag	
O flag	"cur" subdirectory	
D flag	T flag	
F flag	F flag	
A flag	R flag	

When an <code>xclass:'MMDFMessage'</code> instance is created based upon an <code>xclass:'MHMessage'</code> instance, the following conversions take place:

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library)mailbox.rst, line 1436); backlink

Unknown interpreted text role "class".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library)mailbox.rst, line 1436); backlink

Unknown interpreted text role "class".

Resulting state	:class:'MHMessage' state  System Message: ERROR/3 (D:\onboarding- resources\sample-onboarding- resources\cpython-main\Doc\library\(cpython- main) (Doc) (library) mailbox.rst, line 1441); backlink  Unknown interpreted text role "class".	
R flag and O flag	no "unseen" sequence	
O flag	"unseen" sequence	
F flag	"flagged" sequence	
A flag	"replied" sequence	

When an xlass: MMDFMessage' instance is created based upon a xlass: BabylMessage' instance, the following conversions take place:

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library)mailbox.rst, line 1451); backlink
Unknown interpreted text role "class".

 $System\ Message: ERROR/3\ (\ D:\ \ \ \ \ \ \ )\ (D:\ \ \ \ \ )\ cosymple-onboarding-resources \ \ \ \ \ )\ backlink$  main \ Doc\ library\ (cpython-main) (Doc) (library) mailbox.rst, line 1451); \ backlink

Unknown interpreted text role "class".

	:class:`BabylMessage` state	
Resulting state	System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library) mailbox.rst, line 1456); backlink Unknown interpreted text role "class".	
R flag and O flag	no "unseen" label	
O flag	"unseen" label	
D flag	"deleted" label	
A flag	"answered" label	

When an  ${\it class}$ : MMDFMessage' instance is created based upon an  ${\it class}$ :  ${\it mboxMessage}$ ' instance, the "From" line is copied and all flags directly correspond:

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)\ (Doc) (library)mailbox.rst, line 1466); backlink
Unknown interpreted text role "class".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library)mailbox.rst, line 1466); backlink

Resulting state	class: mboxMessage state  System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) mailbox.rst, line 1472); backlink Unknown interpreted text role "class".
R flag	R flag
O flag	O flag
D flag	D flag
F flag	F flag
A flag	A flag

## **Exceptions**

The following exception classes are defined in the :mod:'mailbox' module:

 $System \, Message: ERROR/3 \ ( \verb|D:\onboarding-resources \rangle sample-onboarding-resources \rangle copython-main \ ( \verb|Doc \rangle ( \verb|library \rangle ) mailbox.rst, line 1488); \\ backlink$ 

Unknown interpreted text role "mod".

 $System\,Message: ERROR/3 \ (\cite{Continuous and the continuous and t$ 

Unknown directive type "exception".

.. exception:: Error()

The based class for all other module-specific exceptions.

 $System\,Message: ERROR/3~(\colored in g-resources) sample-onboarding-resources \colored in Jocolibrary (cpython-main)~(Doc)~(library) mailbox.rst, line~1496)$ 

Unknown directive type "exception".

.. exception:: NoSuchMailboxError()

Raised when a mailbox is expected but is not found, such as when instantiating a :class:`Mailbox` subclass with a path that does not exist (and with the \*create\* parameter set to ``False``), or when opening a folder that does not exist.

 $System\,Message: ERROR/3~(\colored in g-resources) sample-onboarding-resources \colored in Jocolibrary)~(\colored in Joco$ 

Unknown directive type "exception".

.. exception:: NotEmptyError()

Raised when a mailbox is not empty but is expected to be, such as when deleting a folder that contains messages.

 $System\,Message: ERROR/3~(\colored in g-resources) sample-onboarding-resources \colored in Jocolibrary)~(\colored in Joco$ 

Unknown directive type "exception".

.. exception:: ExternalClashError()

Raised when some mailbox-related condition beyond the control of the program causes it to be unable to proceed, such as when failing to acquire a lock that another program already holds a lock, or when a uniquely-generated file name already exists.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\((cpython-main)\ (Doc)\ ((ibrary)\ mailbox.rst, line 1517)

Unknown directive type "exception".

```
.. exception:: FormatError()

Raised when the data in a file cannot be parsed, such as when an :class:`MH`
instance attempts to read a corrupted :file:`.mh_sequences` file.
```

## **Examples**

A simple example of printing the subjects of all messages in a mailbox that seem interesting:

```
import mailbox
for message in mailbox.mbox('~/mbox'):
    subject = message['subject']  # Could possibly be None.
    if subject and 'python' in subject.lower():
        print(subject)
```

To copy all mail from a Babyl mailbox to an MH mailbox, converting all of the format-specific information that can be converted:

```
import mailbox
destination = mailbox.MH('~/Mail')
destination.lock()
for message in mailbox.Babyl('~/RMAIL'):
```

```
\label{lem:destination.add} $$\det(\text{mailbox.MHMessage}(\text{message}))$$ destination.flush() $$\det()$$ destination.unlock()
```

This example sorts mail from several mailing lists into different mailboxes, being careful to avoid mail corruption due to concurrent modification by other programs, mail loss due to interruption of the program, or premature termination due to malformed messages in the mailbox:

```
import mailbox
import email.errors
list_names = ('python-list', 'python-dev', 'python-bugs')
boxes = {name: mailbox.mbox('~/email/%s' % name) for name in list_names}
inbox = mailbox.Maildir('~/Maildir', factory=None)
for key in inbox.iterkeys():
      try:
      message = inbox[key]
except email.errors.MessageParseError:
    continue  # The message
                                                   # The message is malformed. Just leave it.
      for name in list_names:
    list_id = message['list-id']
    if list_id and name in list_id:
        # Get mailbox to use
        box = boxes[name]
                   # Write copy to disk before removing original.
# If there's a crash, you might duplicate a message, but
# that's better than losing a message completely.
                   box.lock()
box.add(message)
                   box.flush()
                   box.unlock()
                   # Remove original message
inbox.lock()
                   inbox.discard(key)
                   inbox.unlock()
                   break
                                                   # Found destination, so stop looking.
for box in boxes.itervalues():
      box.close()
```