Codec registry and support functions

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main][Doc][c-api]codec.rst, line 6)

Unknown directive type "c:function".

.. c:function:: int PyCodec_Register(PyObject *search_function)

Register a new codec search function.

As side effect, this tries to load the :mod:`encodings` package, if not yet done, to make sure that it is always first in the list of search functions.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main] [Doc] [c-api] codec.rst, line 13)

Unknown directive type "c:function".

.. c:function:: int PyCodec Unregister(PyObject *search function)

Unregister a codec search function and clear the registry's cache. If the search function is not registered, do nothing. Return 0 on success. Raise an exception and return -1 on error.

.. versionadded:: 3.10

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main] [Doc] [c-api] codec.rst, line 21)

Unknown directive type "c:function".

.. c:function:: int PyCodec_KnownEncoding(const char *encoding)

Return ``1`` or ``0`` depending on whether there is a registered codec for the given *encoding*. This function always succeeds.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main] [Doc] [c-api] codec.rst, line 26)

Unknown directive type "c:function".

.. c:function:: PyObject* PyCodec_Encode(PyObject *object, const char *encoding, const char *errors)

Generic codec based encoding API.

object is passed through the encoder function found for the given *encoding* using the error handling method defined by *errors*. *errors* may be ``NULL`` to use the default method defined for the codec. Raises a :exc:`LookupError` if no encoder can be found.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main] [Doc] [c-api] codec.rst, line 35)

Unknown directive type "c:function".

.. c:function:: PyObject* PyCodec Decode(PyObject *object, const char *encoding, const char *errors)

Generic codec based decoding API.

object is passed through the decoder function found for the given *encoding* using the error handling method defined by *errors*. *errors* may be ``NULL`` to use the default method defined for the codec. Raises a :exc:`LookupError` if no encoder can be found.

Codec lookup API

In the following functions, the *encoding* string is looked up converted to all lower-case characters, which makes encodings looked up through this mechanism effectively case-insensitive. If no codec is found, a <code>:exc:`KeyError`</code> is set and <code>NULL</code> returned.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main][Doc][c-api]codec.rst, line 48); backlink

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Unknown directive type "c:function".

```
.. c:function:: PyObject* PyCodec_Encoder(const char *encoding)

Get an encoder function for the given *encoding*.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main] [Doc] [c-api] codec.rst, line 57)

Unknown directive type "c:function".

```
.. c:function:: PyObject* PyCodec_Decoder(const char *encoding)
Get a decoder function for the given *encoding*.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main] [Doc] [c-api] codec.rst, line 61)

Unknown directive type "c:function".

```
.. c:function:: PyObject* PyCodec_IncrementalEncoder(const char *encoding, const char *errors)

Get an :class:`~codecs.IncrementalEncoder` object for the given *encoding*.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main] [Doc] [c-api] codec.rst, line 65)

Unknown directive type "c:function".

```
.. c:function:: PyObject* PyCodec_IncrementalDecoder(const char *encoding, const char *errors)

Get an :class:`~codecs.IncrementalDecoder` object for the given *encoding*.
```

Unknown directive type "c:function".

```
.. c:function:: PyObject* PyCodec_StreamReader(const char *encoding, PyObject *stream, const char *encoding.

Get a :class:`~codecs.StreamReader` factory function for the given *encoding*.
```

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Unknown directive type "c:function".

```
.. c:function:: PyObject* PyCodec_StreamWriter(const char *encoding, PyObject *stream, const char *encoding.

Get a :class:`~codecs.StreamWriter` factory function for the given *encoding*.
```

Registry API for Unicode encoding error handlers

Unknown directive type "c:function".

```
.. c:function:: int PyCodec_RegisterError(const char *name, PyObject *error)
```

Register the error handling callback function *error* under the given *name*. This callback function will be called by a codec when it encounters unencodable characters/undecodable bytes and *name* is specified as the error parameter in the call to the encode/decode function.

```
The callback gets a single argument, an instance of :exc:`UnicodeEncodeError`, :exc:`UnicodeDecodeError` or :exc:`UnicodeTranslateError` that holds information about the problematic
```

sequence of characters or bytes and their offset in the original string (see :ref:`unicodeexceptions` for functions to extract this information). The callback must either raise the given exception, or return a two-item tuple containing the replacement for the problematic sequence, and an integer giving the offset in the original string at which encoding/decoding should be resumed.

Return ``0`` on success, ``-1`` on error.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main][Doc][c-api]codec.rst, line 100)

Unknown directive type "c:function".

.. c:function:: PyObject* PyCodec LookupError(const char *name)

Lookup the error handling callback function registered under *name*. As a special case ``NULL`` can be passed, in which case the error handling callback for "strict" will be returned.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main][Doc][c-api]codec.rst, line 106)

Unknown directive type "c:function".

.. c:function:: PyObject* PyCodec_StrictErrors(PyObject *exc)

Raise *exc* as an exception.

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Unknown directive type "c:function".

.. c:function:: PyObject* PyCodec_IgnoreErrors(PyObject *exc)

Ignore the unicode error, skipping the faulty input.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main] [Doc] [c-api] codec.rst, line 114)

Unknown directive type "c:function".

.. c:function:: PyObject* PyCodec_ReplaceErrors(PyObject *exc)

Replace the unicode encode error with ``?`` or ``U+FFFD``.

 $System\ Message: ERROR/3\ (\texttt{D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[c-api\] codec.rst, line\ 118)$

Unknown directive type "c:function".

.. c:function:: PyObject* PyCodec_XMLCharRefReplaceErrors(PyObject *exc)

Replace the unicode encode error with XML character references.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main] [Doc] [c-api] codec.rst, line 122)

Unknown directive type "c:function".

 $\dots \verb| c:function:: PyObject* PyCodec_BackslashReplaceErrors(PyObject *exc)|\\$

Replace the unicode encode error with backslash escapes (``\x``, ``\u`` and ``\U``).

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main] [Doc] [c-api] codec.rst, line 127)

Unknown directive type "c:function".

.. c:function:: PyObject* PyCodec_NameReplaceErrors(PyObject *exc)

Replace the unicode encode error with ``\N{...}`` escapes.

.. versionadded:: 3.5