

:mod:`stringprep` --- Internet String Preparation

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library) stringprep.rst, line 1); [backlink](#)

Unknown interpreted text role "mod".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library) stringprep.rst, line 4)

Unknown directive type "module".

```
.. module:: stringprep
   :synopsis: String preparation, as per RFC 3453
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library) stringprep.rst, line 7)

Unknown directive type "moduleauthor".

```
.. moduleauthor:: Martin v. LÃ¶wis <martin@v.loewis.de>
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library) stringprep.rst, line 8)

Unknown directive type "sectionauthor".

```
.. sectionauthor:: Martin v. LÃ¶wis <martin@v.loewis.de>
```

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

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library) stringprep.rst, line 10); [backlink](#)

Unknown interpreted text role "source".

When identifying things (such as host names) in the internet, it is often necessary to compare such identifications for "equality". Exactly how this comparison is executed may depend on the application domain, e.g. whether it should be case-insensitive or not. It may be also necessary to restrict the possible identifications, to allow only identifications consisting of "printable" characters.

[RFC 3454](#) defines a procedure for "preparing" Unicode strings in internet protocols. Before passing strings onto the wire, they are processed with the preparation procedure, after which they have a certain normalized form. The RFC defines a set of tables, which can be combined into profiles. Each profile must define which tables it uses, and what other optional parts of the `stringprep` procedure are part of the profile. One example of a `stringprep` profile is `nameprep`, which is used for internationalized domain names.

The module `:mod:`stringprep`` only exposes the tables from [RFC 3454](#). As these tables would be very large to represent them as dictionaries or lists, the module uses the Unicode character database internally. The module source code itself was generated using the `mkstringprep.py` utility.

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Unknown interpreted text role "mod".

As a result, these tables are exposed as functions, not as data structures. There are two kinds of tables in the RFC: sets and mappings. For a set, `:mod:`stringprep`` provides the "characteristic function", i.e. a function that returns `True` if the parameter is part of the set. For mappings, it provides the mapping function: given the key, it returns the associated value. Below is a list of all functions available in the module.

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Unknown interpreted text role "mod".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library) stringprep.rst, line 42)

Unknown directive type "function".

```
.. function:: in_table_a1(code)
```

Determine whether **code** is in tableA.1 (Unassigned code points in Unicode 3.2).

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library) stringprep.rst, line 47)

Unknown directive type "function".

```
.. function:: in_table_b1(code)
```

Determine whether **code** is in tableB.1 (Commonly mapped to nothing).

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library) stringprep.rst, line 52)

Unknown directive type "function".

```
.. function:: map_table_b2(code)
```

Return the mapped value for **code** according to tableB.2 (Mapping for case-folding used with NFKC).

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Unknown directive type "function".

```
.. function:: map_table_b3(code)
```

Return the mapped value for **code** according to tableB.3 (Mapping for case-folding used with no normalization).

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library) stringprep.rst, line 64)

Unknown directive type "function".

```
.. function:: in_table_c11(code)
```

Determine whether **code** is in tableC.1.1 (ASCII space characters).

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Unknown directive type "function".

```
.. function:: in_table_c12(code)
```

Determine whether **code** is in tableC.1.2 (Non-ASCII space characters).

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Unknown directive type "function".

```
.. function:: in_table_c11_c12(code)
```

Determine whether **code** is in tableC.1 (Space characters, union of C.1.1 and C.1.2).

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Unknown directive type "function".

```
.. function:: in_table_c21(code)
```

Determine whether **code** is in tableC.2.1 (ASCII control characters).

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Unknown directive type "function".

```
.. function:: in_table_c22(code)
```

Determine whether **code** is in tableC.2.2 (Non-ASCII control characters).

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library) stringprep.rst, line 90)

Unknown directive type "function".

```
.. function:: in_table_c21_c22(code)
```

Determine whether **code** is in tableC.2 (Control characters, union of C.2.1 and C.2.2).

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Unknown directive type "function".

```
.. function:: in_table_c3(code)
```

Determine whether **code** is in tableC.3 (Private use).

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Unknown directive type "function".

```
.. function:: in_table_c4(code)
```

Determine whether **code** is in tableC.4 (Non-character code points).

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Unknown directive type "function".

```
.. function:: in_table_c5(code)
```

Determine whether **code** is in tableC.5 (Surrogate codes).

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Unknown directive type "function".

```
.. function:: in_table_c6(code)
```

Determine whether **code** is in tableC.6 (Inappropriate for plain text).

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Unknown directive type "function".

```
.. function:: in_table_c7(code)
```

Determine whether **code** is in tableC.7 (Inappropriate for canonical representation).

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Unknown directive type "function".

```
.. function:: in_table_c8(code)
```

Determine whether **code** is in tableC.8 (Change display properties or are deprecated).

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Unknown directive type "function".

```
.. function:: in_table_c9(code)
```

Determine whether **code** is in tableC.9 (Tagging characters).

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)stringprep.rst, line 133)

Unknown directive type "function".

```
.. function:: in_table_d1(code)
```

Determine whether **code** is in tableD.1 (Characters with bidirectional property "R" or "AL").

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Unknown directive type "function".

```
.. function:: in_table_d2(code)
```

Determine whether **code** is in tableD.2 (Characters with bidirectional property "L").