

**NAME**

URI::\_punycode – encodes Unicode string in Punycode

**SYNOPSIS**

```
use strict;
use warnings;
use utf8;

use URI::_punycode qw(encode_punycode decode_punycode);

# encode a unicode string
my $punycode = encode_punycode('http://.net'); # http://.net-xc8g
$punycode = encode_punycode('bücher'); # bcher-kva
$punycode = encode_punycode(''); # ihqwcrb4cv8a8dqq056pqjye

# decode a punycode string back into a unicode string
my $unicode = decode_punycode('http://.net-xc8g'); # http://.net
$unicode = decode_punycode('bcher-kva'); # bücher
$unicode = decode_punycode('ihqwcrb4cv8a8dqq056pqjye'); #
```

**DESCRIPTION**

URI::\_punycode is a module to encode / decode Unicode strings into Punycode <<https://tools.ietf.org/html/rfc3492>>, an efficient encoding of Unicode for use with IDNA <<https://tools.ietf.org/html/rfc5890>>.

**FUNCTIONS**

All functions throw exceptions on failure. You can catch them with `Syntax::Keyword::Try` or `Try::Tiny`. The following functions are exported by default.

**encode\_punycode**

```
my $punycode = encode_punycode('http://.net'); # http://.net-xc8g
$punycode = encode_punycode('bücher'); # bcher-kva
$punycode = encode_punycode('') # ihqwcrb4cv8a8dqq056pqjye
```

Takes a Unicode string (UTF8-flagged variable) and returns a Punycode encoding for it.

**decode\_punycode**

```
my $unicode = decode_punycode('http://.net-xc8g'); # http://.net
$unicode = decode_punycode('bcher-kva'); # bücher
$unicode = decode_punycode('ihqwcrb4cv8a8dqq056pqjye'); #
```

Takes a Punycode encoding and returns original Unicode string.

**AUTHOR**

Tatsuhiko Miyagawa <[miyagawa@bulknews.net](mailto:miyagawa@bulknews.net)> is the author of IDNA::Punycode which was the basis for this module.

**SEE ALSO**

IDNA::Punycode, RFC 3492 <<https://tools.ietf.org/html/rfc3492>>, RFC 5891 <<https://tools.ietf.org/html/rfc5891>>

**COPYRIGHT AND LICENSE**

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.