# Package 'base64url'

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Type Package
Title Fast and URL-Safe Base64 Encoder and Decoder
Version 1.4
<b>Description</b> In contrast to RFC3548, the 62nd character (``+") is replaced with ``-", the 63rd character (``/") is replaced with ``_". Furthermore, the encoder does not fill the string with trailing ``=". The resulting encoded strings comply to the regular expression pattern ``[A-Za-z0-9]" and thus are safe to use in URLs or for file names.  The package also comes with a simple base32 encoder/decoder suited for case insensitive file systems.
<pre>URL https://github.com/mllg/base64url</pre>
<pre>BugReports https://github.com/mllg/base64url/issues</pre>
NeedsCompilation yes
License GPL-3
Encoding UTF-8
Imports backports (>= 1.1.0)
<b>Suggests</b> base64enc, checkmate, knitr, microbenchmark, openssl, rmarkdown, testthat
RoxygenNote 6.0.1
VignetteBuilder knitr
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base32\_encode

Encode to base32 or Decode from base32

# **Description**

Simple RFC4648 base32 encoder/decoder. Pads with "=".

# Usage

```
base32_encode(x, use.padding = FALSE)
base32_decode(x, use.padding = FALSE)
```

# Arguments

x [character(1)]

Character vector to encode or decode.

use.padding [logical(1)]

If TRUE, base32\_encode returns a string whose length is a multiple of 8, padded with trailing "=" if required. base32\_decode expects such a string unless this is set to FALSE (default). The internal algorithm currently works with padding, thus it is faster to set this to TRUE.

# Value

[character] of the same length as input x.

#### References

Implementation based on base32 encoder/decoder in the GNU lib: https://www.gnu.org/software/gnulib/.

# **Examples**

```
x = "plain text"
encoded = base32_encode(x)
decoded = base32_decode(encoded)
print(encoded)
print(decoded)
```

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base64\_urlencode

Encode to base64 or Decode from base64

#### **Description**

In contrast to RFC3548, the 62nd character ('+') is replaced with '-', the 63rd character ('/') is replaced with '-'. Furthermore, the encoder does not fill the string with trailing '='. The resulting encoded strings comply to the regular expression pattern "[A-Za-z0-9\_-]" and thus are safe to use in URLs or for file names.

### Usage

```
base64_urlencode(x)
base64_urldecode(x)
```

# **Arguments**

x [character(1)]
Character vector to encode or decode.

#### Value

[character] of the same length as input x.

#### References

Implementation based on base64 encoder/decoder in the Apache Portable Runtime (APR): https://svn.apache.org/repos/asf/apr/apr/trunk/encoding/apr\_base64.c

# **Examples**

```
x = "plain text"
encoded = base64_urlencode(x)
decoded = base64_urldecode(encoded)
print(encoded)
print(decoded)
```

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