

# Package ‘libbib’

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**Type** Package

**Title** Verification and Normalization of Various Bibliographic Codes

**Version** 0.1.0

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**Description** Provides functions for validating and normalizing bibliographic codes such as ISBN, ISSN, LCCN, and OCLC.

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**LazyData** TRUE

**Imports** stringr

**Suggests** assertr,  
testthat,  
knitr,  
magrittr

**VignetteBuilder** knitr

**Encoding** UTF-8

**RoxygenNote** 6.0.1

## R topics documented:

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check_isbn_10_check_digit
<i>Check the check digit of an ISBN 10</i>

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## Description

Takes a string representation of an ISBN 10 and verifies that check digit checks out

**Usage**

```
check_isbn_10_check_digit(x, error.is.false = FALSE)
```

**Arguments**

`x` A string of or 10 digits or nine digits with terminal "X"

`error.is.false` return false if error instead of throwing error

**Value**

Returns TRUE if check passes, FALSE if not, and NA if NA

**Examples**

```
check_isbn_10_check_digit("012491540X") # TRUE

# vectorized
check_isbn_10_check_digit(c("012491540X", "9004037812")) # TRUE FALSE
```

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```
get_isbn_10_check_digit
```

*Get ISBN 10 check digit*

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**Description**

Takes a string representation of an ISBN 10 and returns the check digit that satisfies the necessary condition. It can take a 10 digit string (and ignore the already extant check digit) or a 9 digit string (without the last digit)

**Usage**

```
get_isbn_10_check_digit(x)
```

**Arguments**

`x` A string of nine or 10 digits

**Value**

Returns the character check digit that satisfies the mod 11 condition. Returns "X" if 10. Returns NA if input is NA

**Examples**

```
get_isbn_10_check_digit("012491540X")

# nine digit string
get_isbn_10_check_digit("900403781")

# vectorized
get_isbn_10_check_digit(c("012491540X", "9004037810", "900403781"))
```

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is_valid_isbn_10	<i>Return TRUE if valid ISBN 10</i>
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**Description**

Takes a string representation of an ISBN 10 verifies that it is valid. An ISBN 10 is valid if it is a 10 digit string or a 9 digit string with a terminal "X" AND the check digit matches

**Usage**

```
is_valid_isbn_10(x, lower.x.allowed = TRUE)
```

**Arguments**

x	A string of or 10 digits or nine digits with terminal "X"
lower.x.allowed	A logical indicating whether ISBN 10s with a check digit with a lower-case "x" should be treated as valid

**Value**

Returns TRUE if checks pass, FALSE if not, and NA if NA

**Examples**

```
is_valid_isbn_10("012491540X") # TRUE

# vectorized
is_valid_isbn_10(c("012491540X", "9004037812")) # TRUE FALSE
is_valid_isbn_10(c("012491540X", "hubo un tiempo")) # TRUE FALSE
```

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