Package ‘phonenumber’

October 14, 2022

Title  Convert Letters to Numbers and Back as on a Telephone Keypad

Version  0.2.3

Description  Convert English letters to numbers or numbers to English letters as on a telephone keypad. When converting letters to numbers, a character vector is returned with ‘A,’ ‘B,’ or ‘C’ becoming 2, ‘D,’ ‘E,’ or ‘F’ becoming 3, etc. When converting numbers to letters, a character vector is returned with multiple elements (i.e., ‘2’ becomes a vector of ‘A,’ ‘B,’ and ‘C’).

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URL  https://stevemyles.site/phonenumber/,
     https://github.com/scumdogsteev/phonenumber

BugReports  https://github.com/scumdogsteev/phonenumber/issues

Depends  R (>= 3.1.3)

Suggests  knitr, rmarkdown, testthat

VignetteBuilder  knitr

Encoding  UTF-8

NeedsCompilation  no

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Repository  CRAN

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R topics documented:

  letterToNumber ................................................ 2
  numberToLetter ................................................ 3
  phonenumber .................................................... 4

Index  5
**Description**

Take a character vector and convert it to the equivalent number sequence from a telephone’s keypad.

**Usage**

```r
letterToNumber(value, qz = 1)
```

**Arguments**

- `value`: An input value as a character vector with one element (a string).
- `qz`: Whether to assign q and z to zero (qz = 0) or not (any other value).

**Value**

A character vector of numbers and dashes based on value.

**Examples**

```r
# Convert an alphabetic string can be converted directly (with non-alphanumeric characters replaced by dashes)
letterToNumber("R functions") # returns "7-386284667"

# Of course, vectors containing strings can also be converted
string <- "Phone Number"
letterToNumber(string) # returns "74663-686237"

# Alphanumeric strings can also be converted with numbers being returned as is
letterToNumber("Jenny's number is 867-5309") # returns "53669-7-686237-47-867-5309"

# Specifying qz = 0 maps "q" and "z" to 0 instead of 7 and 9
letterToNumber("qz") # returns "79"
letterToNumber("qz", qz = 0) # returns "00"
```
numberToLetter

Convert numbers to letters as on a telephone’s keypad

Description

Take a character vector (i.e., a telephone number) and convert it to all all possible letter combinations as on from a telephone’s key pad

Usage

numberToLetter(value, decreasing = FALSE, qz = 1)

Arguments

value An input value as a character vector with one element (a string)
decreasing Whether to sort the results in alphabetical order or not
qz Whether to assign q and z to zero (qz = 0) or not (any other value)

Value

A character vector of letters and dashes based on value

Examples

# Convert a string or a vector of numeric characters

numberToLetter("911") # returns "W11" "X11" "Y11" "Z11"
x <- "911"
numberToLetter(x) # also returns "W11" "X11" "Y11" "Z11"

# Convert a number directly

numberToLetter(911) # also returns "W11" "X11" "Y11" "Z11"

# Convert an alphanumeric string (letters are returned as is and # non-alphanumeric characters are returned as dashes)

numberToLetter("dial 911!") # returns "DIAL-W11-" "DIAL-X11-" "DIAL-Y11-" "DIAL-Z11-"

# Specifying qz = 0 maps "q" and "z" to 0 instead of 7 and 9

numberToLetter("000") # returns "000"
numberToLetter("000", qz = 0) # returns "QQQ" "QQZ" "QZQ" "QZZ" "ZQQ" "ZQZ" "ZZQ" "ZZZ"
**phonenumber**

| phonenumber | phonenumber: Convert letters to numbers and back as on a telephone keypad |

**Description**

phonenumber: Convert letters to numbers and back as on a telephone keypad

**phonenumber functions**

- `letterToNumber`: convert letters to numbers
- `numberToLetter`: convert numbers to letters
Index

letterToNumber, 2, 4

numberToLetter, 3, 4

phonenumber, 4
phonenumber-package (phonenumber), 4