Package ‘phonenumber’

May 1, 2021

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'').
License  MIT + file LICENSE
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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**letterToNumber**  
*Convert letters to numbers as on a telephone’s keypad*

**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**

<table>
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<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>value</td>
<td>An input value as a character vector with one element (a string)</td>
</tr>
<tr>
<td>qz</td>
<td>Whether to assign q and z to zero (qz = 0) or not (any other value)</td>
</tr>
</tbody>
</table>

**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 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**

```r
# 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" "ZQQ" "ZZQ" "ZZZ"
```
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
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