

# Package ‘rebus.numbers’

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**Title** Numeric Extensions for the 'rebus' Package

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**Description** Build regular expressions piece by piece using human readable code.  
This package contains number-related functionality, and is primarily intended to be used by package developers.

**Depends** R (>= 3.1.0)

**Imports** rebus.base, utils

**Suggests** testthat

**License** Unlimited

**LazyLoad** yes

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**RoxygenNote** 7.3.2

**Collate** 'imports.R' 'number\_range.R' 'roman.R'

**NeedsCompilation** no

**Repository** CRAN

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|--------------|----------------------------------------------------------|
| number_range | <i>Generate a regular expression for a number range.</i> |
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### Description

Generates a regular expression that matches a sequence of numbers.

### Usage

```
number_range(lo, hi, allow_leading_zeroes = FALSE, capture = FALSE)
```

### Arguments

|                      |                                                                                                                    |
|----------------------|--------------------------------------------------------------------------------------------------------------------|
| lo                   | An integer.                                                                                                        |
| hi                   | An integer greater than or equal to lo.                                                                            |
| allow_leading_zeroes | A logical value. Are leading zeroes allowed to bulk the match up to the length of the number with the most digits? |
| capture              | A logical value. See <a href="#">or</a> for details.                                                               |

### Value

A character vector representing part or all of a regular expression.

### Examples

```
number_range(0, 255)
number_range(0, 255, allow_leading_zeroes = TRUE)
number_range(10000, 19999)
number_range(6, 54321)
number_range(-77, 77)
number_range(-77, 77, capture = TRUE)
number_range(-77, 77, capture = NA)
```

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|       |                       |
|-------|-----------------------|
| roman | <i>Roman numerals</i> |
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### Description

Match roman numerals.

### Usage

```
ROMAN
```

```
roman(lo, hi)
```

**Arguments**

|                 |                                                                  |
|-----------------|------------------------------------------------------------------|
| <code>lo</code> | A non-negative integer. Minimum number of repeats, when grouped. |
| <code>hi</code> | positive integer. Maximum number of repeats, when grouped.       |

**Format**

An object of class `regex` (inherits from `character`) of length 1.

**See Also**

[as.roman](#)

**Examples**

```
# Constant form and character class
ROMAN
roman()

x <- c("MMMDCCCXLVIII", "MMCMDCCLXIV")
rx <- rebus.base::exactly(roman())
grepl(rx, x)
```

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