# Package 'crossword.r'

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Type Package
Title Generating Crosswords from Word Lists
Version 0.3.6
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<b>Description</b> Generate crosswords from a list of words.
License MIT + file LICENSE
Encoding UTF-8
LazyData true
<b>Imports</b> R6 (>= 2.2.0), dplyr (>= 0.5.0), stringr (>= 1.2.0), magrittr (>= 1.5), jsonlite (>= 1.5), r6extended (>= 0.1.1)
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2 Crossword

Crossword

Crossword

#### **Description**

Crossword

#### Usage

Crossword

#### **Format**

An R6Class generator object for generating crosswords from word lists

#### **Fields**

letters a character matrix representing the grid of the crossword

words a data.frame like (tibble) storing words, their position on the grid (row, col), their length in character, their direction ("right", "down") the word and the clue

#### Methods

add\_words(words, clues = NULL) this method will try to add words to the crossword by placing it on the grid; clues is optional and should be the same length;

density() gives back statistics on fill state of grid

to\_json(pretty = FALSE) thi exports grid and word list data to JSON for external usage; pretty parameter determines if this is done in a human readable or more machine efficient way

#### **Examples**

```
library(crossword.r)
cw <- Crossword$new(rows = 4, columns = 4)
cw$add_words(c("back", "nasa", "kick", "nuk", "ic", "sic"))
cw
cw$letters
cw$words
cw$density()</pre>
```

cw\_greplv 3

cw_gi epiv u vectorized version of grep	cw_greplv	a vectorized version of grep	
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#### Description

a vectorized version of grep

#### Usage

```
cw_greplv(pattern, x, ignore.case = FALSE, perl = FALSE, fixed = FALSE,
  useBytes = FALSE)
```

#### Arguments

pattern	character string containing a regular expression (or character string for fixed = TRUE) to be matched in the given character vector. Coerced by as.character to a character string if possible. If a character vector of length 2 or more is supplied, the first element is used with a warning. Missing values are allowed except for regexpr and gregexpr.
х	a character vector where matches are sought, or an object which can be coerced by as . character to a character vector. Long vectors are supported.
ignore.case	if FALSE, the pattern matching is <i>case sensitive</i> and if TRUE, case is ignored during matching.
perl	logical. Should Perl-compatible regexps be used?
fixed	logical. If TRUE, pattern is a string to be matched as is. Overrides all conflicting arguments.
useBytes	logical. If TRUE the matching is done byte-by-byte rather than character-by-character. See 'Details'.

 $cw\_matrix\_to\_df$ 

function that turn matrix into a data.frame in long format

#### Description

function that turn matrix into a data.frame in long format

#### Usage

```
cw_matrix_to_df(x)
```

#### Arguments

x the data.frame to transform

cw\_normalize\_words

normalize words to be added to grid

#### **Description**

normalize words to be added to grid

#### Usage

```
cw_normalize_words(words)
```

#### **Arguments**

words

character vector of words to normalize for crossword usage

cw\_to\_json

function implementing to\_json method

#### **Description**

function implementing to\_json method

#### Usage

```
cw_to_json(cw, pretty = FALSE)
```

#### **Arguments**

CW

an object of class crossword

pretty

should json formatted to be mor human readable or not

cw\_wordlist\_animal\_en en - animals

#### Description

data frame of words and clues

#### Usage

```
cw_wordlist_animal_en
```

#### **Format**

An object of class data. frame with 68 rows and 2 columns.

*%>%* 

%>% re-export magrittr pipe operator

### Description

re-export magrittr pipe operator

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