

# Package ‘ztype’

October 14, 2022

**Type** Package

**Title** Run a Ztype Game Loaded with R Functions

**Version** 0.1.0

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**Description** How fast can you type R functions on your keyboard? Find out by running a 'zty.pe' game: export R functions as instructions to type to destroy opponents vessels.

**License** GPL-3

**LazyData** TRUE

**Imports** magrittr, rvest, stats, stringr, utils, dplyr, ggplot2, lubridate, assertthat

**RoxygenNote** 5.0.1

**NeedsCompilation** no

**Repository** CRAN

**Date/Publication** 2016-12-23 00:24:28

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gen_game	<i>gen_game</i>
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**Description**

generate a ZType game by puhsing a set of levels on the website.

**Usage**

```
gen_game(set_of_levels, open = FALSE)
```

**Arguments**

set_of_levels	the set of levels to use
open	booleen open browser

**Examples**

```
## Not run:
require(ztype)
require(magrittr)
c("dplyr", "ggplot2", "lubridate") %>% gen_set_of_words() %>%
  gen_set_of_levels(10) %>%
  gen_game() %>% browseURL()

## End(Not run)
```

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gen_set_of_levels	<i>gen_set_of_levels</i>
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**Description**

generate a set of levels with increasing difficulty

**Usage**

```
gen_set_of_levels(set_of_words, nb = 25)
```

**Arguments**

set_of_words	a sorted vector of the collection of words to use
nb	the number of levels to generate

**Examples**

```
require(ztype)
require(magrittr)
c("dplyr", "ggplot2", "lubridate") %>% gen_set_of_words() %>%
gen_set_of_levels(10) %>% cat()
```

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gen_set_of_words	<i>gen_set_of_words</i>
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**Description**

extracts all function names from a given list of packages

**Usage**

```
gen_set_of_words(packages)
```

**Arguments**

packages            character vector. package(s) to parse and extract function names from

**Value**

a character vector

**Examples**

```
## Not run:
require(ztype)
require(magrittr)
c("dplyr", "ggplot2", "lubridate") %>% gen_set_of_words()

## End(Not run)
```

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level	<i>level</i>
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**Description**

generates a collection of words to build a ZType game level

**Usage**

```
level(set_of_words, quantity, difficulty)
```

**Arguments**

`set_of_words` a sorted vector of the collection of words to use  
`quantity` an integer the number of words to pick in  
`difficulty` an integer reflecting the level's difficulty

**Examples**

```

require(ztype)
require(magrittr)
c("dplyr", "ggplot2", "lubridate") %>% gen_set_of_words() %>% level(10, 50)

```

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<code>ztype</code>	<i>ztype</i>
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**Description**

How fast can you type R functions on your keyboard? Find out by running a 'zty.pe' game: export R functions as instructions to type to destroy opponents vessels.

launch a ZType game using function names of R packages

**Usage**

```
ztype(packages = c("dplyr", "ggplot2", "lubridate"), nb = 25)
```

**Arguments**

`packages` a vector containing installed packages from which extract function names  
`nb` number of levels to design in the ZType game

**Examples**

```

## Not run:
require(ztype)
require(magrittr)
ztype() # dplyr, ggplot2 and lubridate
c("lubridate") %>% ztype()

```

```
## End(Not run)
```

```

## Not run:
require(ztype)
require(magrittr)
ztype()# dplyr, ggplot2 and lubridate

```

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```
c("lubridate") %>% ztype()
```

```
## End(Not run)
```

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