



# WordChallangeR

User Guide

For wcR 1.1

*By Losses Don*

*Losses.don@gmail.com*

# Introduction

Hate to recite the f\*\*king vocabulary again, again, again, and again?

I KNOW THAT FEEL BRO



But nobody can install the dictionary.apk to your brain, so you still have to recite it again, again and again, just like a masochist :D.

This tool can't give you a better brain, but it can save your time on organizing the vocabulary list. wcR can:

- Generating PDF format vocabulary list.
- Generating web application for mobile device, so you do not need to install specific app for learning vocabulary.
- Making test paper for you to check the learning result.
- And some small toys :P.

## Installation and configuration

- Download the wcR from [github](#).
- Install [Prince](#) and [R](#) on your system.
- Apply for API from [Youdao](#) and [Merriam-Webster](#). **Notice: On Merriam-Webster Developer Center, there are many type of APIs, but wcR ONLY support 'Merriam-Webster's Learner's Dictionary with Audio', so you should require for this API.**
- Rename `usr/sample.config.R` to `usr/config.R`, and edit it: Fill the Youdao's API in the first line like:

```
EC_API <- '0000000000'
```

- and Fill the Merriam-Webster's API in the second like:

```
EE_API <- '00000000-0000-0000-0000-000000000000'
```

- Let wcR know how to call the Prince, like:

```
PDF_GENERATOR_CALL <- '../bin/prince/bin/prince'
```

- Now, start .Rprofile(it's a file in the wcR's folder) with R, like:

```
R .Rprofile
```

## For windows user

Open Source tool and Windows hates each other, absolutely. You may meet many problems while using wCR without some special procession. So we strongly suggest you making a portable package.

- Follow the instruction to create folders and install/download software.

```
wcR. ....Root folder
├ bin
│   ├── ConEmu .....Download ConEmu
│   ├── prince .....Put prince.exe here
│   └ R .....Install R here
└ wcR .....wCR source code here
```

- ConEmu is an open source console emulator, you can download it [here](#).
- While installing R:
  - Set the install destination to `wcR/bin/R`.
  - Fill the “☒Don't create a Start Menu folder” checkbox on “Select Start Menu Folder” page..
  - Clear "these checkbox on “Select Additional Task Page”.
    - ☐Create a desktop icon
    - ☐Save version number in registry
    - ☐Associate R with .RData files” checkbox.
- Open `wcR/bin/R/etc/Rprofile.site` with text editor(do NOT use notepad), add following code to the bottom of this file:

```
setwd('./wcR/')

.First <- function() source('.Rprofile')
```

- Create a cmd file on Root folder (wcR), write following code and save:

```
start "" %cd%/bin/conemu/ConEmu64.exe %cd%/bin/R/bin/x64/Rterm.exe
```

## Get started

Now you can see `$wc>` on your screen, everything start here.

## Create a new vocabulary list

- Type new `[list name]` to create a new list, like:

```
new myList
```

- `$new/? (0,0) >` was printed on the screen. `/?` is the name of current unit, we haven't set any unit now, so it leaves a question mark. `(0,0)` is the position of the word, the first

number means the # of unit, the second number means the # of the following word you'd input.

- We need a name for the first unit, so input `>[unit name]`, like:

```
>UnitOne
```

Make sure the unit name ONLY have alphabets, without number, space, Chinese characters or others. `>[unit name]` is the command for switching between units or create a new unit.

- Type a word normally to add a new word.
- `:e [unit#],[word#],[word]` to edit a misspell. If you want to edit the first word of the second unit to 'hello', you can type:

```
:e 2,1,hello
```

- Type `:v` to see all words in the current list.
- `:q` to save the list, and quit the new tool.
- `:fq` to quit the new tool without saving the list.
- The new tool will save the current workspace automatically, so if the program crashed or you leaved the new tool by using the command `:fq`, you can simply enter the new tool by the command `new`, and type 1 to recover the workspace.

## Generating dictionary and test paper

- The command `dictionary [list name] (profile)` is for creating a new vocabulary list. wcR will use default profile if no profile given, here are two examples.

```
dictionary myList  
dictionary myList myProfile
```

## Profile

wcR use profile to control what to generate for you, they are in `usr/profile`, you need a text editor or sheet editor (like MS Excel, Libre office, etc.) to edit them, if you know nothing about the CSV format, we strongly suggest you Google it before editing.

Now, let's see the meaning of each column.

- `id`: the ID of the list or dictionary, it must be unique.
- `name`: the name of the list/dictionary.
- `type`: it can be list, test, dictionary or sentence.
  - `list` means to generate a list without the meaning of each word.
  - `test` means to generate a printable test paper, to check the result of you learning.
  - `dictionary`: generate a dictionary of the words.
  - `sentence`: generate some example sentence, you can learn how to use each word by this.

- **order**: the order of each dictionary/list, can be **order**, **original** or **shuffle**.
  - **order**: sort the content by alphabet order.
  - **original**: do not sort the words.
  - **shuffle**: generate content by shuffle order.
- **style**: the style of list, this column will only work for list. It can be **simple** or **unit**.
  - **simple**: generate the content one by one.
  - **unit**: generate the unit title on order list.
- **lang**: the language of dictionary. This column only work for dictionary, it can be **EC** or **EE**.
  - **EC**: generate an English – Chinese dictionary.
  - **EE**: generate an English – English dictionary.
- **format**: the format of generating result, it can be **html** or **pdf**.
  - **html**: will generate a web application for mobile device, all html format content will be generated in a single html file.
  - **pdf**: generate PDF format list/dictionary for printing, the PDF file will generate separately by page size. **Notice: If you are using non-commercial version of Prince, it will paint a watermark on the first page of each PDF file, but while printing in black/white mode, it won't be there.**
- **Size**: the page size of each list/dictionary, this column will only work for PDF files. It can be **A3**, **A4**, **B4**, **B5**.

## Other toys

We made some toy just for fun, they may be removed in future or continue be developed as a feature.

- **summary**: show how many words you have learned with wcR.
- **explorer**: open the wcR's root folder with explorer.exe (Windows only, of course :D).
- **reset**: restart wcR.
- **clear**: delete all the folders and files in **usr/**.

## License

### WordChallengeR - A tool which can generate vocabulary list

*Copyright (C) 2016 Losses Don*

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <<http://www.gnu.org/licenses/>>.