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| WordChallangeR |
| User Guide  For wcR 1.1 - 1.2 |
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| *By Losses Don*  *Losses.don@gmail.com* |
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# Introduction

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

[](https://camo.githubusercontent.com/7ee64114c21f69e60758a4c6ee45b362da8106cf/687474703a2f2f3766766937652e636f6d312e7a302e676c622e636c6f7564646e2e636f6d2f6e6f74616c6f6e65)

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](https://github.com/Losses/WordChallengeR/archive/master.zip).
* Install [Prince](http://www.princexml.com/download/) and [R](https://mirrors.tuna.tsinghua.edu.cn/CRAN/bin/windows/base/) on your system.
* Apply for API from [Youdao](http://fanyi.youdao.com/openapi?path=data-mode) and [Merriam-Webster](http://www.dictionaryapi.com/). To get more information about how to apply for the API keys, [see the next chapter](#_Details_about_applying). **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 key and ‘key from’ like:

EC\_API <- '0000000000'

EC\_KEY\_FROM <- 'Linda\_wcR'

* and Fill the Merriam-Webster's API key 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

└ wcR.cmd Launcher

* ConEmu is an open source console emulator, you can download it [here](https://conemu.github.io/).
* 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

## Details about applying API keys

### Youdao’s API key

Open <http://fanyi.youdao.com/openapi?path=data-mode> and fill the blank with following instruction.

|  |  |  |  |
| --- | --- | --- | --- |
| 申请key | |  |  |
| 应用名称 |  |  | Application name, like: Linda\_wcR |
| 应用地址 |  |  | **YOUR** application address, you can fill a blog address about wcR :P |
| 应用描述 |  |  | Illustrate the application, like:  Vocabulary learning helper for personal use. |
| 联系邮箱 |  |  | Email address. |

You will receive an Email, like this:

|  |  |  |
| --- | --- | --- |
| 尊敬的用户：  您刚刚在有道翻译API官网上申请了API key，请妥善保管。  网站名称：……  网站地址：……  网站说明：……  联系方式：……  您的key：0000000000  您的keyfrom：Linda\_wcR |  |  |
|  | The blue part is your API key  The blue part is your ‘key form’ |

### Merriam-Webster’s API key

Applying for your API at <http://www.dictionaryapi.com/register/index.htm>, **Notice: you must fill every blank in the form.**

|  |  |  |  |
| --- | --- | --- | --- |
| …… | |  |  |
| Request API Key #1 | Learners Dictionary |  | You should select Learners Dictionary in this single box. |
| Request API Key #2 | ~~Learners Dictionary~~ |  | Anyone is okay except ‘Learners Dictionary’ or ‘None’. |
| …… | |  |  |

Maybe you do not belongs to any company but you still need to fill something to company name, others are same.

After finished this form, you will receive a verify Email, click the link in the mail, login into the website.

You can get you API key by clicking ‘My Keys’ on the left side of the page.

|  |  |  |  |
| --- | --- | --- | --- |
| My Keys | |  |  |
| **Key (Learner's)** | 00000000-0000-0000-0000… |  | **Key (Learner's)** is what we need. |
| Key (XXX's) | 00000000-0000-0000-0000… |  | Another one is not. |

# 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 wan 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. **WARNING: the old unsaved workspace will be removed when another file created.**

## 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 an text editor or sheet editor(like M$ 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/.

# What’s New

## wcR 1.2

[\*] Bug fix: Mobile user can’t switch between pages on web application.

[\*] Improve the layout design for PDF and printable web application.

[\*] Correct some mistake in the user guide.

[+] Add instruction for applying API keys.

# Known bugs

* [Windows] Can’t input anything while switching to other window and switch back to wcR.
* [Windows] The program will FC while input Chinese characters.

The only thing we can do is waiting for the R team fix these problem for the Rterm, but some bugs about Chinese characters kept for quite a long time, nobody knows when will there bugs be fixed. Microsoft and open source tools hate each other, again.

# License

**WordChallangeR - A tool which can generate vocabulary list**

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