



WordChallangeR

User Guide

For wcR 1.1 - 1.2

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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](#). To get more information about how to apply for the API keys, [see the next chapter](#). **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](#).
- 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	<input type="text"/>
应用地址	<input type="text"/>
应用描述	<input type="text"/>
联系邮箱	<input type="text"/>

Application name, like: Linda_wcR

YOUR application address, you can fill a blog address about wcR :P
Illustrate the application, like:
Vocabulary learning helper for personal use.

Email address.

You will receive an Email, like this:

<p>尊敬的用户：</p> <p>您刚刚在有道翻译 API 官网上申请了 API key，请妥善保管。</p> <p>网站名称：</p> <p>网站地址：</p> <p>网站说明：</p> <p>联系方式：</p> <p>您的 key: 0000000000</p> <p>您的 keyfrom: Linda_wcR</p>
--

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	<input type="text" value="Learners Dictionary"/>
Request API Key #2	<input type="text" value="Learners Dictionary"/>
.....	

You should select Learners Dictionary in this single box.

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 (XXX's)	00000000-0000-0000-0000...

Key (Learner's) is what we need.

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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