

# Emacs Configuration

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## 1 Updates

### 1.1 emacs 1 initiliation bug

- TODO: 需要将 Rime 动态库构建成适配配置到 arm64-arch 版本。它性能我电脑的整体性能。

## 2 Emacs x86\_64 vs arm64-arch, and System Rime input method

- 【重点: 上次我的 emacs 升级, 为什么我不能把它直接升级到 arm 版本来着? 那个 csharp-mode 的循环问题不是早解决了!!!! 可以再试下? NO, not yet.】

- 现和使用的 x86\_64 版本, 当初是为了安装 pyim 吗? 如果是这样, 我不应该再有任何的变化, 就意味着我无法从 appcode 中打开当前 emacs 的 buffer 文件 (因为 emacs 的 x86\_64 版本限制了其正常找到 appcode 所依赖的 arm64-arch 环境? 这个可以试着找下是否有解决方案);
- 而如果 pyim 可以 workwith arm 版本, 我就可以安装 arm64-arch 版本, 可能就可以从 appcode 中打开当前 emacs 的 buffer 文件了。
- 我要再试一遍? 【现在还不能够试, 在我还不能够构建和安装出 rime 系统输入法的 arm64-arch 版本动态库之前 (这个输入法, 现系统所安装的是 x86\_64 版本的), 我安装 arm64-arch 版本的 emacs, 我的 pyim 将不可用 (找不到对应版本的 rime 动态库), 因为我构建不出 arm64-arch 版本的 pyim 所依赖的动态库。所以将现在的 emacs 委屈

成了 x86\_64 版本的，也因为这样，我的 emacs 无法正常加载 arm 版本的 appcode 所依赖的动态库，所以无法从 emacs 中直接在 appcode 中打开当前 buffer 文件。】

- 可以 walk-around 的解决办法是：安装 x86-64 版本的 appcode. 【在自己能够想方设法构建出 arm 版本的 rime 动态库之前，先用这个版本，可以满足自己的基本跳转需求】

```
2023-02-25 13:18:39.439 appcode[16392:208496] allVms required 1.8*,1.8+
2023-02-25 13:18:39.441 appcode[16392:208500] Cannot load JVM bundle: Error Domain=NSCocoaErrorDomain Code=3585 "dlopen_preflight(/Applications/AppCode.app/Contents/jbr/Contents/MacOS/libjli.dylib) >> false, tried: '/Applications/AppCode.app/Contents/jbr/Contents/MacOS/libjli.dylib' (mach-o file, but is an incompatible architecture (have 'arm64', need 'x86_64'))" UserInfo={NSLocalizedFailureReason=The bundle doesn't contain a version for the current architecture., NSLocalizedRecoverySuggestion=Try installing a universal version of the bundle., NSFilePath=/Applications/AppCode.app/Contents/jbr/Contents/MacOS/libjli.dylib, NSDebugDescription=dlopen_preflight(/Applications/AppCode.app/Contents/jbr/Contents/MacOS/libjli.dylib) >> false, tried: '/Applications/AppCode.app/Contents/jbr/Contents/MacOS/libjli.dylib' (mach-o file, but is an incompatible architecture (have 'arm64', need 'x86_64'))", NSBundlePath=/Applications/AppCode.app/Contents/jbr, NSLocalizedDescription=The bundle "JBR-17.0.5+1-653.25-jcef 17.0.5" couldn't be loaded because it doesn't contain a version for the current architecture.}
```

- 有试过，boost 的步骤基本能够完成，但是构建第三方库时的 cmake 与 xcode-clang++ 还有很多 arm 相关的问题待解。
- 那么我现在有个迫切需要：就是能够自己构建 arm64-arch 版本的 rime 输入法（至少是能够编译出它的动态库吧？！！！）：现在找到的参考如下：
  - <https://www.bilibili.com/read/cv9664366?from=search>
  - 但是按照上面的步骤，目前理解消化不够，安装不好。注意，这里用到的 MacOS 下在的库是：<https://github.com/rime/squirrel> 但是我仍然构建不出那个动态库
- 如些发现，原来，所谓 rime macos 下的输入法构建，原来是 Macos 下的平台应用，正是我可以学习的地方。终于是半只脚往输入法的坑里踏：
  - <https://www.logcg.com/archives/2078.html>. 这些都可以成为日后自己学习和开发的参考
- emacs 27.1 for emacs-rime input methods. one bug to be fixed.

```
mac ~/.emacs.d on 🍁 master #1 14 ?? 2023-02-14 13:41:18.081 Emacs[18219:212750] It's not legal to call -layoutSubtreeIfNeeded on a view which is already being laid out. If you are implementing the view's -layout method, you can call -[super layout] instead. Break on void _NSDetectedLayoutRecursion(void) to debug. This will be logged only once. This may break in the future.
```

- this affect me access to current terminal, needs to be fixed later.
- after having updated swift-mode, color-theme for swift mode is much better now.

## 2.1 configue pyim wubi input method emacs-rime, works like a charm!

- 现在最大的缺点是：我无法使用自己魔改过的个性化字库，姓名住田等等，活宝妹，亲爱的表哥，等等。但其它也算是基本清单了，再不折腾它了。花了太多的时间在这个上面。所以现在输入法还算是基本清单的。
  - 两套：系统的，与 emacs 里自带的。目前的中英文转换只使用一个探针，过多会存在过灵的总是，某些情况下被禁用中文，就会更麻烦，不如它没有那么灵。爱亲爱的表哥，活宝妹一定要嫁的亲爱的表哥!!!
- 它具备以空格来区分中英文输入法的功能，但不能与中文下半角配合使用。也就是，它具备了我现在所使用过的 sis 下的自动中英文之间以一个空格为单位自动切换，但我无法使用中文下半角标点。
- 它除了使用了系统输入法的字库，其它所有好用的配置一个也不能用（我只能拦截一个最常用的半角，仍然是不方便的），现在只是可以选词了而已，却不能使用其它中文下输入英文标点符号等
- 我中文下使用英语标点：主要是 org-mode 打头的 -\*. 等，它可以检测到，自动化到，还是方便的

## 2.2 configuration for pdf-tools packages

The screenshot shows a Mac OS X window titled "readme.pdf". Inside, the document title is "Emacs Configuration" by "deepwaterooo" from "February 12, 2023". A "Contents" section lists:

<b>1 Updates</b>	<b>1</b>
1.1 configuration for pdf-tools packages . . . . .	1
1.2 invalid time specification: sr-speedbar on MacOS . . . . .	3
1.3 BUG statement and partial fix . . . . .	5
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Section 1.1, "Updates", contains two images of a man smiling. The first image is a full-body shot, and the second is a close-up headshot. Below the images is a green callout box with text in Chinese:

亲爱的表哥  
活宝妹能够遇见亲爱的表哥  
就是活宝妹今生的幸运  
  
活宝妹就是一定要嫁给亲爱的表哥  
活宝妹等着同亲爱的表哥领证结婚的那一天  
  
活宝妹若是还能嫁给亲爱的表哥

At the bottom left, the PDF status bar shows: "readme.pdf 1( 5,6) [PDFView Ins,RO] Sun Feb 12 09:04 1.66".

- pdf viewer noter <==> Skim bi-directional linking configuration on the way, most emacs work is done. Need to learn how to use them though.

```

Help hhj@Heyans-MacBook-Pro:~/emacs.d/elpa/pdf-tools Sat Feb 11 8:57 PM
~/emacs.d/e/pdfBK-tools on master ~/emacs.d/elpa/pdfBK-tools/server/autobuild -i ~/emacs.d/elpa/pdfBK-tools/
Installing packages
Skipping package installation (already installed)

Configuring and compiling
./configure -q && make clean && make -s

Is case-sensitive searching enabled ? yes
Is modifying text annotations enabled ? yes
Is modifying markup annotations enabled ? yes

test -z "epdfinfo" || rm -f epdfinfo
test -z "libsyntax.a" || rm -f libsyntax.a
rm -f *.o
epdfinfo.c:354:19: warning: 'tempnam' is deprecated: This function is provided for compatibility reasons only. Due to security concerns inherent in the design of tempnam(3), it is highly recommended that you use mkstemp(3) instead. [-Wdeprecated-declarations]
    filename = tempnam(NULL, "epdfinfo");
               ^
/Applications/Xcode.app/Contents/Developer/Platforms/MacOSX.platform/Developer/SDKs/MacOSX.sdk/usr/include/stdio.h:312:1: note: 'tempnam' has been explicitly marked deprecated here
__deprecated_msg("This function is provided for compatibility reasons only. Due to security concerns inherent in the design of tempnam(3), it is highly recommended that you use mkstemp(3) instead.")
^
/Applications/Xcode.app/Contents/Developer/Platforms/MacOSX.platform/Developer/SDKs/MacOSX.sdk/usr/include/sys/cdefs.h:215:48: note: expanded from macro '__deprecated_msg'
#define __deprecated_msg(_msg) __attribute__((__deprecated__(_msg)))
epdfinfo.c:1548:5: warning: 'poppler_page_get_selection_region' is deprecated: Use poppler_page_get_selected_region instead [-Wdeprecated-declarations]
    poppler_page_get_selection_region (page, 1.0, selection_style, region);
               ^
/usr/local/Cellar/poppler/23.02.0/include/poppler/glib/poppler-page.h:75:134: note: 'poppler_page_get_selection_region' has been explicitly marked deprecated here
GList *poppler_page_get_selection_region(PopplerPage *page, gdouble scale, PopplerSelectionStyle style, PopplerRectangle *selection) G_GNUC_DEPRECATED_FOR(poppler_page_get_selected_region);
^
/usr/local/Cellar/glib/2.74.5/include/glib-2.0/glib/gmacros.h:694:18: note: expanded from macro 'G_GNUC_DEPRECATED_FOR'
__attribute__((deprecated("Use '#f' instead")))
               ^
2 warnings generated.

=====
Build succeeded. :)
=====

```

- It has to be configured for M1. But I am still not getting any .tar file yet.

tional windows in run-time during which the safety of the plant is guaranteed. To ensure the correctness of the computations in runtime, we discuss two approaches to ensure the integrity of these computations in an untrusted environment: 1) full platform-wide restarts coupled with a root-of-trust timer and 2) utilizing trusted execution environment features available in hardware. We demonstrate our approach using two realistic systems—a 3 degree-of-freedom helicopter and a simulated warehouse temperature management unit and show that our system is robust against multiple emulated attacks—essentially the attackers are not able to compromise the safety of the CPS.

*Index Terms*—Cyber-physical systems (CPSs), embedded systems, real-time systems, safety-critical systems, security.

## I. INTRODUCTION

OME of the recent attacks on cyber-physical systems (CPSs) are focused on causing physical damage to the plants. Such intruders make their way into the system using cyber exploits but then initiate actions that can destabilize and even damage the underlying (physical) systems. Examples of such attacks on medical pacemakers [22] or vehicular controllers [25] exist in the literature. Any damage to such physical systems can be catastrophic—to the systems, the environment or even humans. The drive toward remote monitoring/control (often via the Internet) only exacerbates the safety-related security problems in such devices.

When it comes to security, many techniques focus on preventing the software platform from being compromised or

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F. Abdi, C.-Y. Chen, M. Hasan, and S. Mohan are with the Department of Computer Science, University of Illinois at Urbana-Champaign, Urbana,

- could customer F5 toggle sr-speedbar, and make sis-mode work. But I do NOT really need

sis-mode, only needed macism command line. to help [LOVE MY DEAR COUSIN!!!]

```
~/pp/Majiang/
<-> Majiang
<-> pic
[+] README.org *
[+] README.txt *
```

1 #Title: Class On-article
2 #Title: Emacs Configuration
3 #Author: deepwaterooo
4
5 \* TODOs: tracing bugs of emacs 28.1
6 \* Updates
7 - could customer F5 toggle sr-speedbar, and make sis-mode work. But I do NOT really need sis-mode, only needed macism command line. to help [LOVE MY DEAR COUSIN!!!]
8
9 ./pic/readme\_20230210\_220555.png

- finally sync up with csharp-mode with tree-sitter, and fixed added the other's that gio-mode etc.
- Permanently disabled speedbar-edit-file's set-timer function call from Resource files. Do NOT want to see such a bug, don't know how to fix, but disable it and walk around.
- Now have a relatively barable and stable colorful emacs code editor now, at least for csharp-mode. Relatively satisfied now. Could sit it aside for a while now to focus on projects.

## 2.3 invalid time specification: sr-speedbar on MacOS

- I don't like this bug, and I believe I do NOT really using any timer for auto-refresh in my speedbar. So I ended up by disabling the (speedbar-edit-file() func, which is frequently bug triggered) setting timer part from /Applications/Emacs.app/Contents/Resources/lisp/speedbar.el and recompile the file. The bug was gone. And I could deal with csharp-mode's fontify bug.
- newer debugging infos, concerning about sr-speedbar.el file. Have NOT been able to trace down for today.

```
Debugger entered--Lisp error: (error "Invalid time specification")
time-convert(t list)
timer-time-setter([t nil nil nil nil dframe-timer-fn nil nil])
timer-set-idle-time([t nil nil nil nil dframe-timer-fn nil nil])
speedbar-set-timer()
speedbar-find-file("parser.java" nil 0)
speedbar-do-function-pointer()
speedbar-edit-line()
funcall-interactively(speedbar-edit-line)
call-interactively(speedbar-edit-line nil nil)
command-execute(speedbar-edit-line)

(defun speedbar-set-timer (timeout)
  "Set up the speedbar timer with TIMEOUT.
  timer-time-setter([t nil nil nil nil dframe-timer-fn nil nil]) uses 'dframe-set-timer'.
  timer-set-idle-time([t nil nil nil nil dframe-timer-fn nil nil]) also resets scanner functions."
  (let ((idle-timer [t dframe-timer-fn])
        (dframe-set-timer-internal t))
    (dframe-set-timer(t speedbar-timer-fn speedbar-update-flag)
      (lambda (idle-timer)
        (let ((idle-timer [idle-timer]))
          (dframe-set-timer nil)
          (speedbar-set-timer nil)
          (if timeout
              (add-hook 'after-revert-hook 'speedbar-reset-scanners)
              (remove-hook 'after-revert-hook 'speedbar-reset-scanners))
          (vc-scanner-fix itself)
          (if timeout
              (add-hook 'after-revert-hook 'speedbar-reset-scanners)
              (remove-hook 'after-revert-hook 'speedbar-reset-scanners))
          (change this if it changed for some reason)
          (speedbar-set-mode-line-format)))
      (lambda ()
        "Run whenever Emacs is idle to update the speedbar item."
        (if (or (not (speedbar-current-frame))
                (not (frame-live-p (speedbar-current-frame))))
            (speedbar-set-timer nil)
            (save-match-data
              (if (and speedbar-update-flag
                      (speedbar-current-frame)
                      (frame-visible-p (speedbar-current-frame))
                      (not (eq (frame-visible-p (speedbar-current-frame)) 'icon)))
                  (let ((af (selected-frame)))
                    (dframe-select-attached-frame speedbar-frame)
                    (make sure we at least choose a window to
                    get a good directory from
                    (if (window-minibuffer-p)
                        (let ((af (selected-frame)))
                          (dframe-select-attached-frame speedbar-frame)
                          (frame-visible-p (speedbar-current-frame))
                          (not (eq (frame-visible-p (speedbar-current-frame)) 'icon)))))))
```

<Backtrace\* 3(10,13) [Debugger Ins,RO] Thu Feb 9 13:50 1.75 ----- speedbar.el.gz 4(2526,19) [ Ins] Thu Feb 9 13:50 1.75 -----

- 好像是 macOS 系统常常存在的 bug, 两年了关了又开, 开了再关.....
- <https://github.com/remacs/remacs/issues/845>
- get cmake work later, not urgent though.Complete
- babel org-mode so I don't have to copy from specific babelized source org-mode files in order for chinese characters to work.

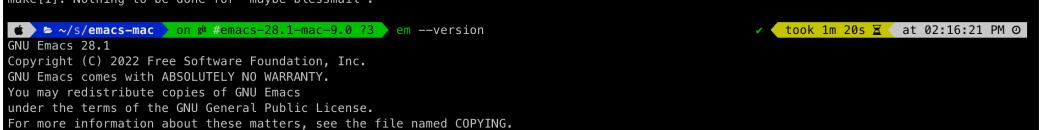
- Installed my emacs of version 28.1. But there is a bug of any verison emacs > 27.1, and I am NOT able to find a installable emacs 27.1 version any more.
- 不同电脑架构上可能因为架构的不同, 可以可能可以有某些优化. 又照一个单做了一遍, 似乎没有出错. <https://goykhman.ca/gene/blog/2022/2022-04-10-emacs-28.1-on-m1.html>
- 但是我没有没能加入那个补丁包. 暂时没能想好怎么加入那个补丁包. (**todo:** 改天可以尝试再把这个补丁包加进去)
- 因为构建是在原有现有的 mac 28.1.1 版本上构建的. 所以改动什么, 或是不曾改变, 又或者改不了不影响明显功能都是无从知晓的, 但是它最后的两个步骤的验证都是成功的, 应该还是构建成功了吧?

```

/usr/bin/install -c -m 644 etc/${docfile} "/usr/local/share/emacs/28.1/etc/${docfile}"; \
for installuser in ${LOGNAME} ${USERNAME} ${USER} '(id -u) 2> /dev/null'; do [ -n "${installuser}" ] && break ; done; installgroup \
p='(id -g) 2>/dev/null' && [ -n "$installgroup" ] && installuser=$installuser:$installgroup; \
chown ${installuser} "/usr/local/share/emacs/28.1/etc/${docfile}" || true ; \
else true; fi
Copying etc/DOC to /usr/local/share/emacs/28.1/etc ...
umask 022; ./build-aux/install-sh -c -d "/usr/local/bin"
/Applications/Xcode.app/Contents/Developer/usr/bin/make -C lib-src install

Installing utilities run internally by Emacs.
umask 022 && ././build-aux/install-sh -d "/usr/local/libexec/emacs/28.1/aarch64-apple-darwin22.3.0"
exp_archlibdir= cd "/usr/local/libexec/emacs/28.1/aarch64-apple-darwin22.3.0" && /bin/pwd && \
if [ "$exp_archlibdir" != "/bin/pwd" ]; then \
    for file in hexl movemail; do \
        /usr/bin/install -c $file \
        "/usr/local/libexec/emacs/28.1/aarch64-apple-darwin22.3.0/$file" || exit; \
    done ; \
fi
exp_archlibdir= cd "/usr/local/libexec/emacs/28.1/aarch64-apple-darwin22.3.0" && /bin/pwd && \
if [ "$exp_archlibdir" != "`cd . && /bin/pwd`" ]; then \
    for file in rcs2log; do \
        /usr/bin/install -c ./file \
        "/usr/local/libexec/emacs/28.1/aarch64-apple-darwin22.3.0/$file" || exit; \
    done ; \
fi

Installing utilities for users to run.
umask 022 && ././build-aux/install-sh -c -d "/usr/local/bin"
for file in etags ctags emacsclient ebrowse; do \
    /usr/bin/install -c ${file} \
    "/usr/local/bin/" \
    echo ${file} | sed -e 's/### -e s,x,x,' \
    ` ` exit; \
done
if test "/Users/hhj/selfSoft/emacs-mac/mac" != "`cd mac && /bin/pwd`"; then \
    umask 022; ./build-aux/install-sh -c -d /Users/hhj/selfSoft/emacs-mac/mac/Emacs.app; \
    (cd mac/Emacs.app; (tar -chf - . | \
        (cd /Users/hhj/selfSoft/emacs-mac/mac/Emacs.app; umask 022; tar -xvf - \
        && cat > /dev/null)) || exit 1; \
)
/usr/bin/install -c src/emacs "/usr/local/bin/echo emacs-28.1 | sed 's,x,x,'"
/usr/bin/install -c -m 644 src/emacs.pdmp "/usr/local/libexec/emacs/28.1/aarch64-apple-darwin22.3.0"/emacs.pdmp
chmod 755 "/usr/local/bin/echo emacs-28.1 | sed 's,x,x,'"
rm -f "/usr/local/bin/" && ln -s "echo emacs-28.1 | sed 's,x,x,'" "/usr/local/bin/" && ln -s "echo emacs-28.1 | sed 's,x,x,'" "/echo emacs | sed 's,x,x,'"
cd "/usr/local/bin/" && ln -s "echo emacs-28.1 | sed 's,x,x,'" "/echo emacs | sed 's,x,x,'"
/Applications/Xcode.app/Contents/Developer/usr/bin/make -C lib-src maybe-blessmail
make[1]: Nothing to be done for 'maybe-blessmail'.
```



- 今天又尝试安装 Xcode 之后再构建一遍, 但是没有成功. 可能本身参考有些年代, 另外自己还完全不通这个部分, 所以暂时放一放. 改天有机会可以再回来研究一下, 错在哪里, 我如何才可能构建出自己的版本.

```

mactont.m:482:15: warning: 'CTGetCoreTextVersion' is deprecated: first deprecated in macOS 11.0 - Use -[NSProcessInfo operatingSystemVersion] [-Wdeprecated-declarations]
    if (CTGetCoreTextVersion () >= kCTVersionNumber10_9)
        ^
/Libary/Developer/CommandLineTools/SDKs/MacOSX.sdk/System/Library/Frameworks/CoreText.framework/Headers/CoreText.h:61:10: note
: 'CTGetCoreTextVersion' has been explicitly marked deprecated here
uint32_t CTGetCoreTextVersion( void ) CT_DEPRECATED("Use -[NSProcessInfo operatingSystemVersion]", macos(10.5, 11.0), ios(3.2,
14.0), watchos(2.0, 7.0), tvos(9.0, 14.0));
^
1 warning generated.
CC      terminfo.o
CC      lastfile.o
/Libary/Developer/CommandLineTools/usr/bin/make -C ..//admin/charsets all
make[2]: Nothing to be done for `all'.
/Libary/Developer/CommandLineTools/usr/bin/make -C ..//admin/unidata charsctipt.el
make[2]: Nothing to be done for `charscript.el'.
CCLD    temacs
../.build-aux/install-sh -c -d ..etc
/Libary/Developer/CommandLineTools/usr/bin/make -C ..lisp update-subdirs
cp -f temacs bootstrap-emacs
rm -f bootstrap-emacs.pdmp
./temacs --batch -l loadup --temacs=pbootstrap
make[1]: *** [bootstrap-emacs.pdmp] Killed: 9
make: *** [src] Error 2
mac ~ ~/s/emacs on git emac-27 !3 ?1 sudo make install ✓ at 10:13:25 AM
Password:
/Libary/Developer/CommandLineTools/usr/bin/make -C lib all
make[1]: Nothing to be done for `all'.
/Libary/Developer/CommandLineTools/usr/bin/make -C lib-src all
make[1]: Nothing to be done for `all'.
/Libary/Developer/CommandLineTools/usr/bin/make -C src VCSWITNESS='$(srcdir)///.git/logs/HEAD' all
/Libary/Developer/CommandLineTools/usr/bin/make -C ..//admin/charsets all
make[2]: Nothing to be done for `all'.
/Libary/Developer/CommandLineTools/usr/bin/make -C ..//admin/unidata charsctipt.el
make[2]: Nothing to be done for `charscript.el'.
rm -f bootstrap-emacs.pdmp
./temacs --batch -l loadup --temacs=pbootstrap
make[1]: *** [bootstrap-emacs.pdmp] Killed: 9
make: *** [src] Error 2

```

- 上面又成为一个需要改的东西：就是系统下如何从剪贴板自动生成写入文件 org-mode M-s
- 然后看见这里说可以自己构建一个，连 Xcode 也没有安装，就跑去构建了，当然不成功。这段时间太忙，XCode 要的空间太大了，暂时还不想。等改天有机会的时候倒是可以一试的
  - <https://stuff-things.net/2020/12/28/building-emacs-27-dot-1-on-macos-big-sur/>
- added key-bindings for opening from VSCode/Android Studio of current emacs buffer.
  - VSC Emacs can locate to each othr to correct row and col.
  - Android Studio could open current emacs buffer. but not to the row nor col.
- I liked recently configued Visual studio 2019 one-dark-pro theme, want to configue it for emacs, but ended up with any permission denied, renaming emacs initiating bug. reverted back for daily use, and may look into that bug for later reference.
- will reconfigure one-dark-pro theme later.
- fixed legency java-mode higlighting issue which I did not fix for years. Has been able to treat java-mode as java-mode Instead of using it as csharp-mode. Can not separate java-mode snippets from csharp-mode's.

## 2.4 BUG statement and partial fix

- in java-mode, the code style I expected is as followed:

```

class node {
    int v ;
    public node() {
        if (a > 0) // I don't want { } blocks when I have only one line statement inside blocks
// a = 17;      // before fix:
        a = 17;    // now it can auto-indent
        b = 20;
        while (true) // same auto indents here
            j++;
}

```

```

    }
}

class dklfjdj {} // <===== current un-auto-expanded version, bug right now for java-mode
class dklfjdj {
    | // <===== expected feature: once I typed '{', '}' will be autopaired(it does), but also auto-expand and cursor moves
}

```

- if while if while one line statement autoindent without {} fixed today for java-mode, but for kotlin-mode, this bug consists, make coders/programmers nuts.

```

fun getStringLength(obj: Any): Int? {
    if (obj is String)
        return obj.length // <<<<==== BUG: need to fix auto-indent here for if else while etc without {}

    if (obj is String) {
        return obj.length
    }
    // 在离开类型检测分支后, `obj` 仍然是 `Any` 类型
    return null
}
fun dslfkj { // kotlin-mode, unlike java-mode, this feature works charming
    val a = 1720
}

```

- The {} can NOT auto-expand still bugs me a lot, I don't want to switch back to java-mode yet unless bug fixed and it auto-pands.
- java minor bug: Debugger entered–Lisp error: (void-function company-clear-completion-rules): this bug I will look into it recently, and expect it to be fixed so I could switch java-mode from csharp-mode as soon as possible.
- **csharp-mode** has been the one that works perfectly for these two features, {} auto expand, also if while one line statement autoindent without {}, so I used csharp-mode as java mode.

### 3 References

- <https://github.com/redguardtoo/emacs.d>

### 4 windows 10 下面的 toggle-input-method 不 work: 想要绑定到一个方便使用的 F 上面, 另外 posframe (+ point 1) 只想加上下, 不想加左右。

- 有个想要打开文件时, 不能 C-a 到根目录的 bug:
- 激活中文必须 M-x:pyim-activate; 切换成英文可以 either M-x:pyim-deactivate 或者是 C-
- 再激活中文又必须是 M-x:pyim-activate
- 需要一个简单的键绑定, 帮助自己方便地切换到中文: 而不是每次都得 M-x:pyim-activate 太麻烦, 易输入错误

You need cheat emacs to load the package on demand.

```
(use-package pyim
  :ensure t
  :bind
  ("C-\\" . pyim-toggle-input-method)
  :config
  (defalias 'pyim-toggle-input-method 'toggle-input-method)
  (setq-default default-input-method "pyim")
  ;; other configuration goes here
)
```

You may encounter situation where `toggle-input-method` can not actually toggle the input method, then you can define `pyim-toggle-input-method` to wrap `toggle-input-method` as below other than `defalias`.

```
(defun pyim-toggle-input-method (&optional arg interactive)
  "Force toggle input method from/to pyim."
  (interactive "P\np")
  (setq input-method-history nil)
  (setq default-input-method "pyim")
  (call-interactively 'toggle-input-method arg))
```

Now the package can be loaded on demand, saving your Emacs startup time, besides that you can also add `:defer` in `use-package` for idle time loading.