

baidu

# BIDL VIM Plugin

百度接口定义语言 VIM 插件

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# BIDL VIM Plugin

### 1 介绍

#### 1.1 背景

百度接口定义语言(Baidu Interface Definition Language,以下简称为 BIDL),是一种规范性语言,采用类 C/C++语法来定义 BGCC 客户程序与服务器程序之间的通信接口。BIDL 提供了一套通用的基本数据类型,并以这些基本数据类型来定义更为复杂的数据类型,剥离了语言与平台的差异性,使得客户程序与服务程序均不感知接口背后的实现细节。特别地,分离了业务逻辑与通信逻辑,大大提升了客户程序与服务程序的运行可靠性,并降低了编写客户程序与服务程序的复杂性。

为了能方便快捷地编写 BIDL 文件,故开发了此 VIM 插件。

#### 1.2 内容

本手册涉及的内容包括 BIDL VIM Plugin 的安装与使用指导。

#### 1.3 功能

本 VIM 插件包含的功能有:

- 1) BIDL 语法高亮
- 2) BIDL 关键字自动补全

# 2 安装与使用

bidl.vim 包含 BIDL 语法高亮 VIM 插件,bidl\_words.txt 包含 BIDL 关键字单词表,用于自动补全。测试环境: vim7.3。bidl.vim 与 bidl words.txt 见附录。

## 2.1 安装

- 1) 将 bidl.vim 放置在\$HOME/.vim/ftplugin 目录中。
- 2) 将 bidl words.txt 放置在\$HOME/.vim 目录中。



```
3) 在$HOME/.vimrc 中添加如下行
syntax on
au BufRead,BufNewFile *.bidl setfiletype bidl
set dict+=~/.vim/bidl_words.txt
imap <c-l> <c-x><c-k>
```

#### 2.2 使用

- 1) 新建 BIDL 文件 xx.bidl。
- 2) 在 VIM Insert 模式下,输入 se,然后按<Ctrl-l>,有如下显示:

```
1 sequence
sequence /home/liuxupeng/.vim/bidl_words.txt
set /home/liuxupeng/.vim/bidl_words.txt
```

- 3) 分别键入<Ctrl-n>和<Ctrl-p>,可在多个选项间跳转。
- 4) BIDL 语法高亮如下所示:

## 3 附录

bidl.vim

```
" Vim syntax file
" Language: bidl
" Maintainer:
```



```
" Last Change:
                     2012 Oct 23
    if exists("b:current_syntax")
       finish
    endif
    syn keyword
                     cStatement
                                     namespace const in out all typedef
    syn keyword
                     cStructure struct enum class
    syn keyword
                     cType
                                     void boolean int8 int16 int32 int64 float string binary
    syn keyword
                     cType
                                     map sequence set
    syn keyword
                     cConstant true TRUE false FALSE
    syn keyword cReservedError __CLASS__
                                                  DIR_
                                                            FILE
                                                                       LINE
                                                                                  METHOD
  NAMESPACE
                     abstract
    syn keyword cReservedError alias
                                                     alignof
                                                                and and eq
                                          alignas
                                                                                args as
    syn keyword cReservedError
                                          assert
                                                     auto BEGIN
                                                                     bitand
                                                                                bitor bool
    syn keyword cReservedError break
                                          byte case catch char char16_t char32_t
    syn keyword cReservedError
                                          compl
                                                     const_cast constexpr continue
                                                                                    cpp cpp_type
    syn keyword cReservedError
                                 declare
                                          decltype
                                                     def default
                                                                     del
                                                                          delete
                                                                                     do
    syn keyword cReservedError
                                                                          else elseif elsif
                                 double
                                          dynamic
                                                     dynamic cast
                                                                     elif
    syn keyword cReservedError
                                          enddeclare endfor
                                                                endforeachendif endswitch endwhile
                                 END
    syn keyword cReservedError
                                 ensure
                                          except
                                                     exec explicit
                                                                     export
                                                                                extends
                                                                                           extern
    syn keyword cReservedError
                                 final
                                          finally
                                                     for foreach
                                                                     friend
                                                                                function
                                                                                          global
    syn keyword cReservedError
                                                                           inline instance of int
                                 goto
                                          if
                                                implements
                                                                import
    syn keyword cReservedError
                                 interface is
                                                java lambda
                                                                long module
                                                                                mutable
    syn keyword cReservedError
                                 native
                                          new next nil
                                                          noexcept
                                                                     not
                                                                          not_eq
    syn keyword cReservedError
                                 nullnullptr
                                                operator
                                                          optional
                                                                     or
                                                                           or eq
                                                                                     package
                                                                                public
    syn keyword cReservedError
                                 pass
                                          print private
                                                           protected protocol
                                                                                           raise
    syn keyword cReservedError
                                 redo
                                          register
                                                     reinterpret_cast request
                                                                                request_len
required rescue
    syn keyword cReservedError
                                          return
                                                     self short signed
                                                                           sizeof
                                                                                     static
                                retrv
    syn keyword cReservedError
                                 static assert
                                               static cast strictfp
                                                                     superswitch
                                                                                     synchronized
template
    syn keyword cReservedError
                                 then
                                          this thread_local
                                                                throw
                                                                                     transient try
                                                                           throws
    syn keyword cReservedError typeid
                                          typename undef
                                                                unionunless
                                                                                unsigned until
    syn keyword cReservedError
                                 use using var
                                               virtual
                                                          volatile
                                                                     wchar t
                                                                                when
                                                                yield
    syn keyword cReservedError
                                 while
                                          with xor xor eq
    syn region cCppString start=+L\="+ skip=+\\\\|\\"\|\$+ excludenl end=+"+ end='$'
    syn match cNumbers display transparent "\<\d\|\.\d" contains=cNumber,cFloat
    syn match cNumber
                                display contained "\d\+\(u\=I\{0,2\}\{I\}=u\}"
    syn match cFloat
                                display contained "\d\+f"
                                display contained \d^*(e[-+]\=\d^+)\=[fl]\=
    syn match cFloat
```



```
display contained "\.\d\+\(e[-+]\=\d\+\)\=[fI]\=\>"
syn match cFloat
syn match cFloat
                            display contained \d+e[-+]=\d+[f]=\
                           start="//" skip="\\$" end="$" keepend
syn region cCommentL
syn region cComment matchgroup=cCommentStart start="/\*" end="\*/" fold extend
syntax match
                 cCommentError display "\*/"
syn region clncluded display contained start=+"+ skip=+\\\\|\\"+ end=+"+
                      display "^\s*include\>\s*["<]" contains=cIncluded
syn match cinclude
hi def link cCppString
                            String
hi def link cCommentL
                            cComment
hi def link cCommentStart
                           cComment
hi def link cNumber
                            Number
hi def link cFloat
                      Float
hi def link cCommentError
                            Error
                            Error
hi def link cReservedError
hi def link cStructure
                            Structure
hi def link cInclude
                            Include
hi def link cIncluded
                           String
hi def link cStatement
                            Statement
hi def link cType
                      Type
hi def link cConstant
                            Constant
hi def link cString
                      String
hi def link cComment
                            Comment
let b:current_syntax = "bidl"
" vim: ts=4
```

#### bidl\_words.txt

```
include
int64
typedef
true
namespace
float
struct
TRUE
void
string
enum
false
boolean
```



binary		
const		
FALSE		
int8		
map		
in		
int16		
sequence		
out		
int32		
set		
all		
class		