

#golang #vietnam

MEET UP #5



Vim as Go Editor

Thach Le
thach@dwarvesf.com



Agenda

1. Vim introduction
2. Vim usages
3. Vim as go editor
4. Vim tour



Vim introduction



Programming editors

1. Sublime Text
2. Emacs
3. Atom
4. Vscode
5. Vim
6. Webstorm



What is Vim?

1. Text editor
2. Stands for **Vi Improved**
3. Designed for command line interface(CLI).
4. Can be used as IDE by tons of plugins
5. Can be extensively customized



Why Vim?

1. Friend of terminal-users
2. Keyboard-base, mouse-free interface
3. Everywhere
4. Amazing extensibility
5. Lightweight and fast
6. Semantic commands
7. Impression



Vim usages



Vim setup

1. Install Vim
2. Install Vim plugins manager
3. Configure Vim plugins



Install Vim

Install with home brew:

```
brew install Vim
```

Create file .vimrc

```
touch ~/.vimrc
```



Install Vim plugins manager

Vundle/pathogen/vpm/Plug

```
git clone https://github.com/VundleVim/Vundle.vim.git ~/.vim/  
bundle/Vundle.vim
```



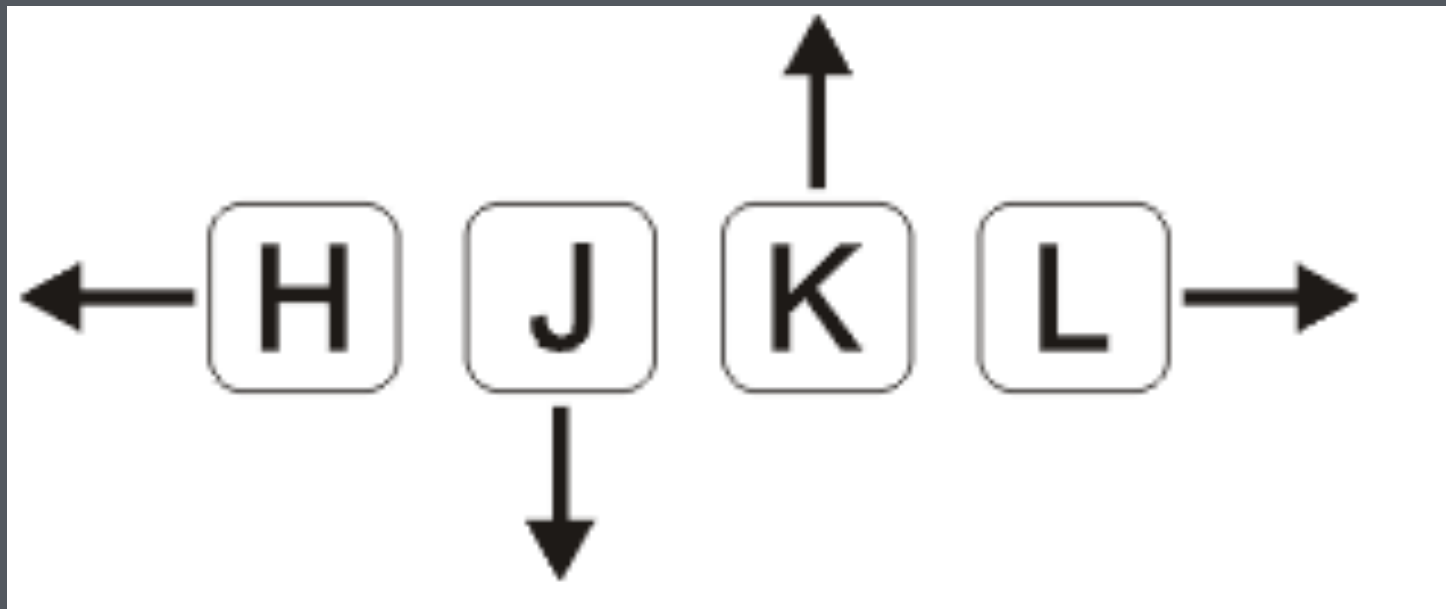
Configure Vim plugins

1. Choose plugins from <http://vimawesome.com/>
2. Place it in **.vimrc**
3. Run **:PluginInstall** in Vim



Basic Vim

Movement:



Basic Vim

ADM-3A - First computer terminals



Basic Vim

Open file with vim:

```
vim <file_name>
```

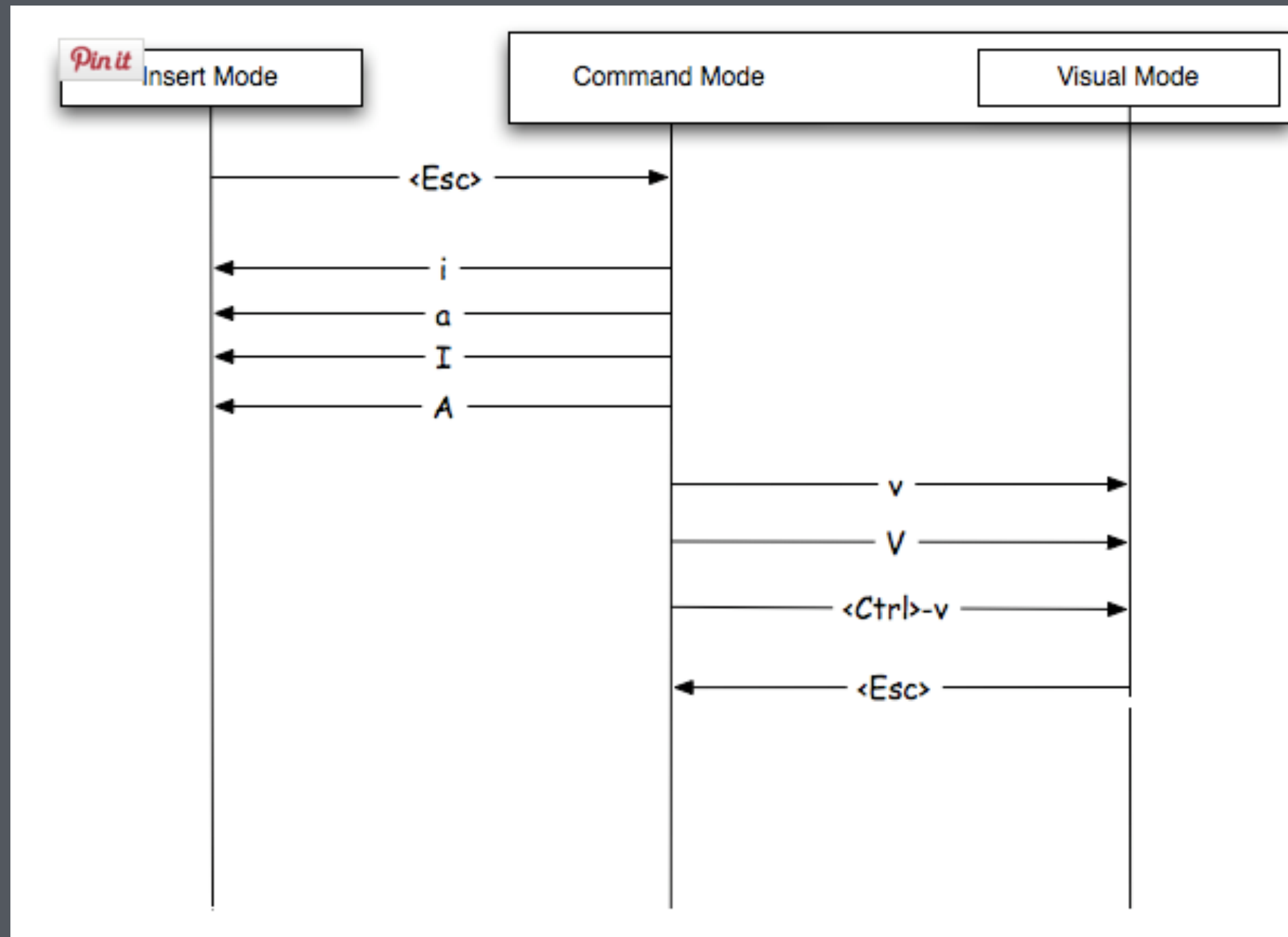
Open vim in current directory:

```
vim/vim .
```



Basic Vim

Vim is **modal** editor:



Command(Normal) mode

Into this mode when pressing **Esc**

All keystrokes are interpreted as
commands

Examples: **:q** **:w** **:GoTest**



Insert mode

Into this mode when pressing:

1. **a** - after the current position
2. **A** - last character of line
3. **i** - before current position
4. **I** - first character of line
5. **o** - under current line
6. **O** - above current line
7. **s** - delete char at current position
8. **S** - delete current line



Visual mode

Into this mode when pressing **v**, **V**, **Ctrl-V**

Using to select a piece of text, the only way to select a block of text - for further commands



Vim “languages”

Vim’s normal mode command is like a language.

verb

noun

adjective

d : delete

w: word

i : inside



Vim as Go editor



Install plugins

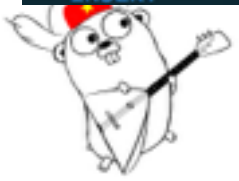
1. vim-go
2. nerd tree
3. neocomplete
4. auto-pairs
5. gitv
6. nerdcommenter



Install Plugins

```
Default (vim)      Default (vim)      Default (hugo)      Default (zsh)
" Press ? for help
.. (up a dir)
</git.dwarvesf.com/delivr/web/
└─ .git/
└─ cmd/
└─ conf/
└─ [x]controllers/
    base.go
    credit_card.go
    default.go
    offer.go
    order.go
    product.go
    review.go
    [*]subscriber.go
    user.go
    [*]util.go
└─ docs/
└─ Codeps/
└─ [x]models/
└─ [x]routers/
└─ static/
└─ tests/
└─ [x]utils/
└─ [x]views/
    .DS_Store
    .env
    .gitignore
    .gitlab-ci.yml
    .godir
    app.json
    Dockerfile
    main.go
NERD_tree_1      33%      13:1
-- INSERT --

16 import (
15     "encoding/json"
14     "strconv"
13     "time"
12
11     "git.dwarvesf.com/delivr/web/models"
10     "git.dwarvesf.com/delivr/web/utls"
9
8     "github.com/astaxie/beego/orm"
7 )
6
5 type OrderController struct {
4     BaseController
3 }
2
1 func (o *OrderController) GetOrdersFromListOrderIDs(listOrderIDs orm.ParamsList) []models.Order {
~ 19     var Orders []models.
1     // fill some inform
2     for _, orderID := r
3
4         var id int64
5         id = orderID
6
7         order := mo
8
9         err := orm.
10        if err != nil {
11            continue
12        }
13
INSERT order.go | +
1 type User struct
2
[Scratch]
50%      1:1
```



Vim's mapping

When I press this key, I want you to do this action instead what you usually do

`:map - x`

=> When I press “-“, vim does action like “x” does.



Using Vim's mapping

Some kinds of mapping:

- map: work in all modes
- nmap: work in normal mode
- imap: work in insert mode
- vmap: work in visual mode



Using Vim's mapping

noremap = non-recursive map

```
:map a b
```

```
:map b c
```

=> press a the result is c

```
:noremap c d
```

=> press a the result is c



Example

```
nnoremap <silent> df :GoDef<cr>
```

```
inoremap <silent> pp pp.Println("")
```



Q & A



References

- <http://devblog.dwarvesf.com/post/vim-go/>
- <http://farazdagi.com/blog/2015/vim-as-golang-ide/>
- <http://vimawesome.com/>
- <http://learnvimscriptthehardway.stevelosh.com/>



Thanks for watching

