

# Vim & Tmux

Sheng-Jun Lin

# Programming Font

- Type: **monospace** 等寬,  
    **sans-serif** 無襯線(黑體).  
    **serif** 襯線(明體)

- Eg: Source Code Pro

- mono, sans-serif

- <https://github.com/adobe-fonts/source-code-pro>

- Installation:

- Fedora: `dnf install texlive-sourcecodepro`
    - Centos: `yum install texlive-sourcecodepro`



# Vim

- Open a file `vim example.txt`



## Normal Mode

h j k l / ← ↓ ↑ →		
<b>O/Home</b>	Go to beginning of the line	
<b>^/Home</b>	First character of the line	
<b>\$/End</b>	Go to end of the line	
<b>gg/G</b>	Go to the first/last line	
<b>n+ / n-</b>	Go up/down <i>n</i> lines	
<b>u</b>	Undo	
<b>dd</b>	Del the line	<b>p</b> Paste
<b>D</b>	Del rest of the line	
<b>yy</b>	Copy the line	

**i**

**Esc**

**Insert mode**

Edit!

**d** Del the region  
**y** Copy the region  
**Esc** Leave the mode

**v**

**Shift + v**

**Ctrl + v**

**Visual Mode**

**Visual Line Mode**

Shift + > or < Indent

**Visual Block Mode**

# Vim

- Open a file `vim example.txt`



## Normal Mode

h j k l / ← ↓ ↑ →		
O/Home	Go to beginning of the line	
^/Home	First character of the line	
\$/End	Go to end of the line	
gg/G	Go to the first/last line	
n+ / n-	Go up/down <i>n</i> lines	
u	Undo	
dd	Del the line	p Paste
D	Del rest of the line	
yy	Copy the line	

Esc Leave the mode



## Command mode

### Search

*/some words*

n Next, N Previous

### Set

`:set nu` Show #line

`:set nonu` Hide #line

### Substitute

*:line range s/w1/w2/g*

`:5s/dog/Cat/g`

`:5,10s/dog/Cat/g`

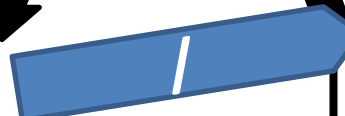
`:5,10s/dog//g`

`:5,10s/^/Cat/g`

`:5,10s/$/Cat/g`

`:5,%s/dog/Cat/g`

`:%s/dog/Cat/g`



# Vim

- Open a file `vim example.txt`



Esc Leave the mode



## Normal Mode

h j k l / ← ↓ ↑ →		
<b>O/Home</b>	Go to beginning of the line	
<b>^/Home</b>	First character of the line	
<b>\$/End</b>	Go to end of the line	
<b>gg/G</b>	Go to the first/last line	
<b>n+ / n-</b>	Go up/down <i>n</i> lines	
<b>u</b>	Undo	
<b>dd</b>	Del the line	<b>p</b> Paste
<b>D</b>	Del rest of the line	
<b>yy</b>	Copy the line	

:

:

## Command mode

### Save/Quit/...

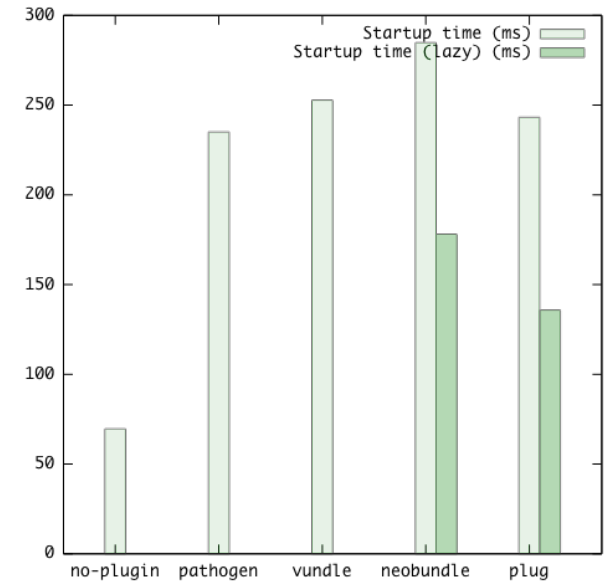
**:q!** Quit w/o saving  
**:w** Save  
**:wq** Save and quit  
**:redo** Cancel an undo  
**:n** Go to the *n*<sup>th</sup> line

### Open another files and Split into panels

**:sp filename**  
Horizontally split  
**:vsp filename**  
Vertically split  
**Ctrl + w** then ← ↓ ↑ →  
Go to other panels

# Vim plugin manager

- Pathogen
- Vundle
- **vim-plug**
  - We will use this.
- How long to start up vim:  
`vim --startuptime vim.log`
- Install vim-plug and some plugins
  - <https://github.com/Sheng-Jun/vimrc>



```
sebastien@cassiopeia:~/bin
File Edit View Search Terminal Help
1 from numpy import *
2 import pyfits
3 from scipy.optimize import curve_fit
4 from scipy.optimize import leastsq
5 import matplotlib.pyplot as plt
6 import matplotlib.cm as cm
7 from matplotlib.colors import LogNorm
8 from matplotlib.gridspec import GridSpec
9 from matplotlib.ticker import MultipleLocator
10 from mpl_toolkits.axes_grid.anchored_artists import AnchoredText
11 from mpl_toolkits.mplot3d import Axes3D
12 import itertools
13 import operator
14 import sys
15
16 #-----
17 #NOTE for fitting
18 #refit and redraw
19 #ref in rS
20 #chisquare peakresi
21 #-----
22 #NOTE 01: FITTING
23 minorLocator = MultipleLocator(1)
NORMAL ~/SED_fit.py unix utf-8 python 0% 1:1
"SED_fit.py" 2469L, 115721C
```

# tmux (terminal multiplexer)

- Features:
  - multi-panel terminal
  - keep processes running after ending ssh session
- Install:
  - Fedora: `dnf install tmux`
  - Ubuntu: `apt-get install tmux`
  - Mac: `brew install tmux`
- Config:

[https://github.com/Sheng-Jun/tmux\\_config](https://github.com/Sheng-Jun/tmux_config)

