

HW3 Solution

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Problem

1.vimtutor

```
1 | vimtutor: a simple vim guide
```

```
=====
=  Welcome to the VIM Tutor - Version 1.7  =
=====

Vim is a very powerful editor that has many commands, too many to
explain in a tutor such as this. This tutor is designed to describe
enough of the commands that you will be able to easily use Vim as
an all-purpose editor.

The approximate time required to complete the tutor is 25-30 minutes,
depending upon how much time is spent with experimentation.

ATTENTION:
The commands in the lessons will modify the text. Make a copy of this
file to practise on (if you started "vimtutor" this is already a copy).

It is important to remember that this tutor is set up to teach by
use. That means that you need to execute the commands to learn them
properly. If you only read the text, you will forget the commands!

Now, make sure that your Shift-Lock key is NOT depressed and press
the j key enough times to move the cursor so that Lesson 1.1
completely fills the screen.
~~~~~
Lesson 1.1: MOVING THE CURSOR

** To move the cursor, press the h,j,k,l keys as indicated. **
      ^
      k           Hint: The h key is at the left and moves left.
    < h   l >       The l key is at the right and moves right.
      j           The j key looks like a down arrow.
      v

1. Move the cursor around the screen until you are comfortable.

2. Hold down the down key (j) until it repeats.
   Now you know how to move to the next lesson.

3. Using the down key, move to Lesson 1.2.

NOTE: If you are ever unsure about something you typed, press <ESC> to place
      you in Normal mode. Then retype the command you wanted.

NOTE: The cursor keys should also work. But using hjkl you will be able to
      move around much faster, once you get used to it. Really!
~~~~~
```

2.vimrc

```
1 vim .vimrc
2
3 " Use the Solarized Dark theme
4 set background=dark
5 colorscheme solarized
6 let g:solarized_termtrans=1
7
8 " Make Vim more useful
9 set nocompatible
10 " Use the OS clipboard by default (on versions compiled with `+clipboard`)
11 set clipboard=unnamed
12 " Enhance command-line completion
13 set wildmenu
14 " Allow cursor keys in insert mode
15 set esckeys
16 " Allow backspace in insert mode
17 set backspace=indent,eol,start
18 " Optimize for fast terminal connections
19 set ttyfast
20 " Add the g flag to search/replace by default
21 set gdefault
22 " Use UTF-8 without BOM
23 set encoding=utf-8 nobomb
24 " Change mapleader
25 let mapleader=","
26 " Don't add empty newlines at the end of files
27 set binary
28 set noeol
29 " Centralize backups, swapfiles and undo history
30 set backupdir=~/.vim/backups
31 set directory=~/.vim/swaps
32 if exists("&undodir")
33     set undodir=~/.vim/undo
34 endif
35
36 " Don't create backups when editing files in certain directories
37 set backupskip=/tmp/*,/private/tmp/*
38
39 " Respect modeline in files
40 set modeline
41 set modelines=4
42 " Enable per-directory .vimrc files and disable unsafe commands in them
43 set exrc
44 set secure
45 " Enable line numbers
46 set number
47 " Enable syntax highlighting
48 syntax on
49 " Highlight current line
50 set cursorline
51 " Make tabs as wide as two spaces
52 set tabstop=2
53 " Show "invisible" characters
54 set lcs=tab:»\ ,trail:.,eol:~,nbsp:_
55 set list
```

```

56 " Highlight searches
57 set hlsearch
58 " Ignore case of searches
59 set ignorecase
60 " Highlight dynamically as pattern is typed
61 set incsearch
62 " Always show status line
63 set laststatus=2
64 " Enable mouse in all modes
65 set mouse=a
66 " Disable error bells
67 set noerrorbells
68 " Don't reset cursor to start of line when moving around.
69 set nostartofline
70 " Show the cursor position
71 set ruler
72 " Don't show the intro message when starting Vim
73 set shortmess=atI
74 " Show the current mode
75 set showmode
76 " Show the filename in the window titlebar
77 set title
78 " Show the (partial) command as it's being typed
79 set showcmd
80 " Use relative line numbers
81 if exists("&relativenumber")
82     set relativenumber
83     au BufReadPost * set relativenumber
84 endif
85 " Start scrolling three lines before the horizontal window border
86 set scrolloff=3
87
88 " Strip trailing whitespace (,ss)
89 function! StripWhitespace()
90     let save_cursor = getpos(".")
91     let old_query = getreg('/')
92     :%s/\s\+$//e
93     call setpos('.', save_cursor)
94     call setreg('/', old_query)
95 endfunction
96 noremap <leader>ss :call StripWhitespace()<CR>
97 " Save a file as root (,w)
98 noremap <leader>w :w !sudo tee % > /dev/null<CR>
99
100 " Automatic commands
101 if has("autocmd")
102     " Enable file type detection
103     filetype on
104     " Treat .json files as .js
105     autocmd BufNewFile,BufRead *.json setfiletype json syntax=javascript
106     " Treat .md files as Markdown
107     autocmd BufNewFile,BufRead *.md setlocal filetype=markdown
108 endif

```

3.ctrlp.vim

```
1 mkdir -p ~/.vim/pack/vendor/start
2 cd ~/.vim/pack/vendor/start
3 git clone https://github.com.cnpmjs.org/ctrlpvim/ctrlp.vim.git
4 vim ctrlp.vim
5 set runtimepath^=~/.vim/pack/vendor/start/ctrlp.vim
6 let g:ctrlp_map = '<c-p>'
7 let g:ctrlp_cmd = 'CtrlP'
8 let g:ctrlp_working_path_mode = 'ra' #set current dir as default
```

```
→ start git clone https://github.com.cnpmjs.org/ctrlpvim/ctrlp.vim.git
Cloning into 'ctrlp.vim'...
remote: Enumerating objects: 4157, done.
remote: Counting objects: 100% (29/29), done.
remote: Compressing objects: 100% (21/21), done.
remote: Total 4157 (delta 10), reused 22 (delta 8), pack-reused 4128
Receiving objects: 100% (4157/4157), 1.63 MiB | 1.29 MiB/s, done.
Resolving deltas: 100% (1598/1598), done.
```

```
=====
" Netrw Directory Listing                               (netrw v149)
" /home/terence/~/.vim/pack/vendor/start/ctrlp.vim
" Sorted by      name
" Sort sequence: [\/]$, \<core\%(\\.d\\+\\)\>=\\>,\\.h$,\\.c$,\\.cpp$,\\-\\=\\$,*\\.o$,\\.obj$,\\.info$,\\.swp$,\\.b
" Quick Help: <F1>:help  -:go up dir  D:delete  R:rename  s:sort-by  x:exec
" =====
im/./
im/./
im/.git/
im/autoload/
im/doc/
im/plugin/
im/.gitignore
im/LICENSE
im/readme.md
im/.swp
```

```
set runtimepath^=~/.vim/pack/vendor/start/ctrlp.vim
let g:ctrlp_map = '<c-p>'
let g:ctrlp_cmd = 'CtrlP'
let g:ctrlp_working_path_mode = 'ra' #设置默认路径为当前路径
```

4.5.6 ...

7.vim-plug

```
1 $ curl -fLo ~/.vim/autoload/plug.vim --create-dirs \
2 https://raw.githubusercontent.com/junegunn/vim-plug/master/plug.vim
3
4 call plug#begin()
5 Plug 'preservim/NERDTree' #需要安装的插件 NERDTree
6 Plug 'wikitopian/hardmode' #安装 hardmode
7 ..... # 更多插件
8 call plug#end()
```