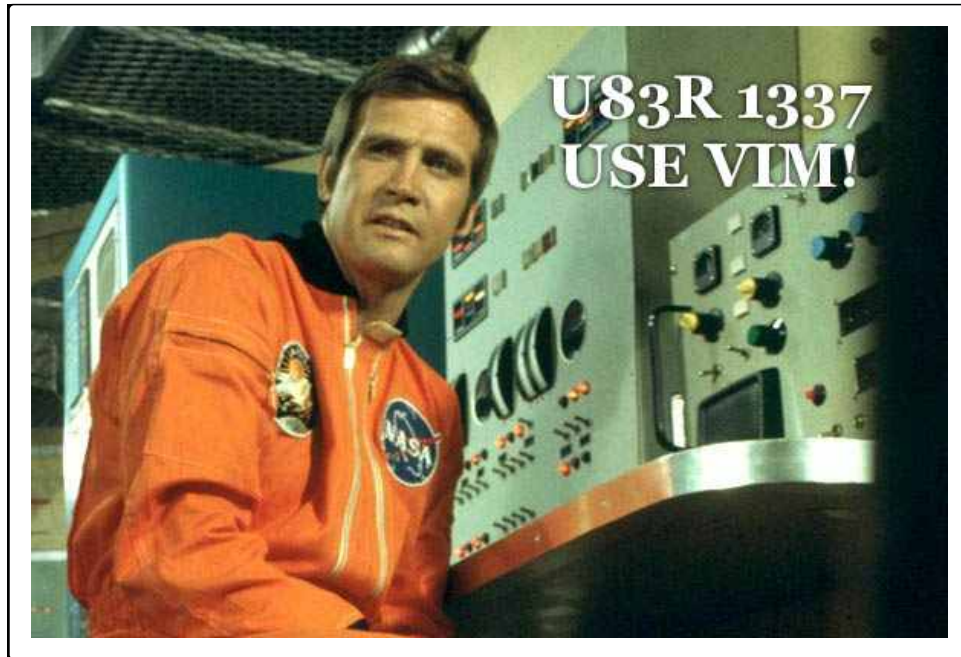


Learn Vim Progressively



TL;DR: You want to teach yourself vim (the best text editor known to human kind) in the fastest way possible. This is my way of doing it. You start by learning the minimal to survive, then you integrate all the tricks slowly.*

Vim[†] the Six Billion Dollar editor

Better, Stronger, Faster.

Learn *vim*[†] and it will be your last text editor. There isn't any better text editor that I know of. It is hard to learn, but incredible to use.

I suggest you teach yourself Vim in 4 steps:

1. Survive
2. Feel comfortable
3. Feel Better, Stronger, Faster
4. Use superpowers of vim

By the end of this journey, you'll become a vim superstar.

But before we start, just a warning. Learning vim will be painful at first. It will take time. It will be a lot like playing a musical instrument. Don't expect to be more efficient with vim than with another editor in less than 3 days. In fact it will certainly take 2 weeks instead of 3 days.

1. 1st Level – Survive

0. Install vim[†]
1. Launch vim
2. DO NOTHING! Read.

In a standard editor, typing on the keyboard is enough to write something and see it on the screen. Not this time. Vim is in *Normal* mode. Let's go to *Insert* mode. Type the letter `i`.

You should feel a bit better. You can type letters like in a standard editor. To get back to *Normal* mode just press the `ESC` key.

You now know how to switch between *Insert* and *Normal* mode. And now, here are the commands that you need in order to survive in *Normal* mode:

- `i` → Insert *mode*. Type `ESC` to return to *Normal mode*.
- `x` → Delete the char under the cursor
- `:wq` → Save and Quit (`:w` save, `:q` quit)
- `dd` → Delete (and copy) the current line
- `p` → Paste

Recommended:

- `hjkl` (*highly recommended but not mandatory*) → basic cursor move (←↓↑→). Hint: `j` looks like a down arrow.
- `:help` → Show help about `<command>`.
You can use `:help` without a `<command>` to get general help.

Only 5 commands. That is all you need to get started. Once these command start to become natural (maybe after a day or so), you should move on to level 2.

But first, just a little remark about *Normal mode*. In standard editors, to copy you have to use the `Ctrl` key (

`Ctrl-c` generally). In fact, when you press `Ctrl`, it is as if all of your keys change meaning. Using vim in normal mode is a bit like having the editor automatically press the `Ctrl` key for you.

A last word about notations:

- instead of writing `Ctrl-λ`, I'll write `<C-λ>`.
- commands starting with `:` end with `<enter>`. For example, when I write `:q`, I mean `:q<enter>`.

2. 2nd Level – Feel comfortable

You know the commands required for survival. It's time to learn a few more commands. These are my suggestions:

1. Insert mode variations:

- `a` → *insert after the cursor*
- `o` → *insert a new line after the current one*
- `O` → *insert a new line before the current one*
- `cw` → *replace from the cursor to the end of the word*

2. Basic moves

- `0` → *go to the first column*
- `^` → *go to the first non-blank character of the line*
- `$` → *go to the end of line*
- `g_` → *go to the last non-blank character of line*

- `/pattern` → search for `pattern`

3. Copy/Paste

- `P` → paste before, remember `p` is paste after current position.
 - `yy` → copy the current line, easier but equivalent to `ddP`

4. Undo/Redo

- `u` → undo
 - `<C-r>` → redo

5. Load/Save/Quit/Change File (Buffer)

- `:e <path/to/file>` → open
 - `:w` → save
 - `:saveas <path/to/file>` → save to `<path/to/file>`
 - `:x`, `ZZ` or `:wq` → save and quit (`:x` only save if necessary)
 - `:q!` → quit without saving, also: `:qa!` to quit even if there are modified hidden buffers.
 - `:bn` (resp. `:bp`) → show next (resp. previous) file (buffer)

Take the time to learn all of these command. Once done,


```

          ew          E W
          ||          | |
x = (name_1,vision_3); # this is a comment.

```

Now let's talk about very efficient moves:

- `%` : Go to the corresponding `(`, `{`, `[`.
- `*` (resp. `#`) : go to next (resp. previous) occurrence of the word under the cursor

Believe me, the last three commands are gold.

3.3. Faster

Remember about the importance of vi moves? Here is the reason. Most commands can be used using the following general format:

```
<start position><command><end position>
```

For example : `0y$` means

- `0` → go to the beginning of this line
- `y` → yank from here
- `$` → up to the end of this line

We also can do things like `ye`, yank from here to the end of the word. But also `y2/foo` yank up to the second

occurrence of “foo”.

But what was true for `y` (yank), is also true for `d` (delete), `v` (visual select), `gU` (uppercase), `gu` (lowercase), etc...

4. 4th Level – Vim Superpowers

With all preceding commands you should be comfortable using vim. But now, here are the killer features. Some of these features were the reason I started to use vim.

4.1. Move on current line: `0 ^ $ g_ f F t T , ;`

- `0` → go to column 0
- `^` → go to first character on the line
- `$` → go to the last column
- `g_` → go to the last character on the line
- `fa` → go to next occurrence of the letter `a` on the line. `,` (resp. `;`) will find the next (resp. previous) occurrence.
- `t,` → go to just before the character `,`.
- `3fa` → find the 3rd occurrence of `a` on this line.
- `F` and `T` → like `f` and `t` but backward.

```

0  ^      fi      t)      4fi      g_  $
|  |      |      |      |      |  |
x = (name_1,vision_3); #this is a comment.

```

A useful tip is: `dt"` → remove everything until the `"`.

4.2. Zone selection `<action>a<object>` or `<action>i<object>`

These command can only be used after an operator in visual mode. But they are very powerful. Their main pattern is:

`<action>a<object>` and `<action>i<object>`

Where action can be any action, for example, `d` (delete), `y` (yank), `v` (select in visual mode). The object can be: `w` a word, `W` a WORD (extended word), `s` a sentence, `p` a paragraph. But also, natural character such as `"`, `'`, `)`, `}`, `]`.

Suppose the cursor is on the first `o` of `(map (+) ("foo"))`.

- `vi"` → will select `foo`.
- `va"` → will select `"foo"`.
- `vi)` → will select `"foo"`.
- `va)` → will select `("foo")`.
- `v2i)` → will select `map (+)`
- `v2a)` → will select `(map (+) ("foo"))`

```
----- v2a)
~~~~~ v2i)
(map (+) ("fo"))
--- vi"
+++++ va" and vi)
===== va)
```

4.3. Select rectangular blocks: <C-v>.

Rectangular blocks are very useful for commenting many lines of code. Typically: `O<C-v><C-d>I-- [ESC]`

- `^` → go to the first non-blank character of the line
- `<C-v>` → Start block selection
- `<C-d>` → move down (could also be `jjj` or `%`, etc...)
- `I-- [ESC]` → write `--` to comment each line

```
-- Screen size
type Size = (Int,Int)
type Point = (Int,Int)
type TimePoint = (Int,Int,Int)
screenSize = (25,79)

type Drawer = Size -> Int -> [Float]

fabs x | x < 0 = -x
```

Note: in Windows you might have to use `<C-q>` instead of `<C-v>` if your clipboard is not empty.

4.4. Completion: <C-n> and <C-p>.

In Insert mode, just type the start of a word, then type `<C-p>`, magic...



4.6. Visual selection: v,V,<C-v>

We saw an example with `<C-v>`. There is also `v` and `V`. Once the selection has been made, you can:

- `J` → join all the lines together.
- `<` (resp. `>`) → indent to the left (resp. to the right).
- `=` → auto indent

```
// AUTOINDENT with = example => S-V$%=
// S-V => Visual select lines
// $ => go to end of line
// % => go to end of function (corresponding { )
// = => Auto indent the selection
int allcases ( char prefix[], int n, char *list[] ) {
char *c;
char **next_list = list;
ylog(prefix);
19,1 26%
```

Add something at the end of all visually selected lines:

- `<C-v>`
- go to desired line (`jjj` or `<C-d>` or `/pattern` or `%` etc...)
- `$` go to the end of the line
- `A`, write text, `ESC`.

```
#!/usr/bin/env zsh
echo "Hello"
echo "I will add something"
echo "in the end of each line"
echo "Lets do it"
echo "C-vG$A >&2[ESC]"

2,0-1 All
```

4.7. Splits: `:split` and `vsplit`.

These are the most important commands, but you should look at `:help split`.

- `:split` → create a split (`vsplit` create a vertical split)
- `<C-w><dir>` : where `dir` is any of `hjkl` or `←↓↑→` to change the split.
- `<C-w>_` (resp. `<C-w>|`) : maximise the size of the split (resp. vertical split)
- `<C-w>+` (resp. `<C-w>-`) : Grow (resp. shrink) split

```
enddiv

[Vim] the Six Billion Dollar editor
> Better, Stronger, Faster.
Learn [vim] and it will be your last text editor.
There isn't any better text editor I know.
Hard to learn, but it will pay a billion times.
:q

23,0-1 7%
```

5. Conclusion

That was 90% of the commands I use every day. I suggest that you learn no more than one or two new commands per day. After two to three weeks you'll start to feel the power of vim in your hands.

Learning Vim is more a matter of training than plain memorization. Fortunately vim comes with some very good tools and excellent documentation. Run vimtutor until you are familiar with most basic commands. Also, you should read this page carefully: `:help usr_02.txt`.

Then, you will learn about `!`, folds, registers, plugins and many other features. Learn vim like you'd learn piano and all should be fine.



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6. Comments

102 comments



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Doron Linder • 2 years ago



I created an online game that teaches VIM commands. You play the cursor on a "Zelda meets text editing" adventure. The first couple of levels are free (hjkl and word navigation). The rest requires paying. Check it out - <http://vim-adventures.com>

21 ^ | v · Reply · Share ›



yogsototh → Doron Linder · 2 years ago

I believe this is a great idea! This is genius!

5 ^ | v · Reply · Share ›



johan → Doron Linder · 10 months ago

Dude this is awesome. Thanks!

1 ^ | v · Reply · Share ›



Mark → Doron Linder · 11 months ago

It's a good game!

1 ^ | v · Reply · Share ›



yen3 → Doron Linder · 2 months ago

It looks very interesting !

^ | v · Reply · Share ›



Neo → Doron Linder · 2 months ago

Good Job!

^ | v · Reply · Share ›



behemoth → Doron Linder · 7 months ago

very nice, thanks

^ | v · Reply · Share ›



Jean-Pierre de SOZA · 8 months ago

Have you heard of the "deep" command... Not super-useful though, it helps swap two words, when you're positioned before the first of them:

de -> delete to end of word

e -> move to the end of second word

p -> paste back the first word

Easy :)

5 ^ | v · Reply · Share ›



Harbort · 2 years ago

A small error though: "t," will go just *before* `''` and not just after.

Also very useful: range commands! You hints at one of them (i") but

you can use i (for inner) and a (for ... a) with:

s - sentence

w - word

p - paragraph

(- round brackets

[- square brackets

{ - curly brackets

So if you type : "yi(" that would copy everything within the inner-most parenthesis.

You can also add a number to not get the inner most, but other levels:

"y2a(" ...

4 ^ | v • Reply • Share ›



yogsototh → Harbort • 2 years ago

Thanks for the comment! I fixed the error.

I'll definitely add a text_objects subsection under in the super power section. And your example of "y2a(" is great.

^ | v • Reply • Share ›



Asif Sulikeri • 10 months ago

Learning VIM was never so wonderful..!! Thanks to you..!!

R.E.S.P.E.C.T..!!

2 ^ | v • Reply • Share ›



ciferkey • 2 years ago

Thank you very much! This is the exact kind of guide I was looking for!

2 ^ | v • Reply • Share ›



yogsototh → ciferkey • 2 years ago

You're welcome!

^ | v • Reply • Share ›



A.B • 4 months ago

I would highly encourage to disable arrow keys, before starting vim ;))

1 ^ | v • Reply • Share ›



someone • 2 years ago

thank you!

1 ^ | v • Reply • Share ›



Krishs · 2 years ago

Thanks a lot man... this is what i looking for.... also looking forward for the kind of articles. great job!!!

1 ^ | v · Reply · Share ›



@wsaryoo · 2 years ago

thanks for VIM quick learning !! dividing the high learning curve to a few steps :)

1 ^ | v · Reply · Share ›



Pramode · 2 years ago

Great article! Thanks for writing it!

1 ^ | v · Reply · Share ›



Jian H. L. · 2 years ago

Good article!

I learnt <C v> and = from your article.

I tried <v> in the <C v> example, seems they're not the same:)

1 ^ | v · Reply · Share ›



@killa__bee · 2 years ago

Here's an important tip for learning vim (that duplicates most of your admittedly nice efforts above): type "vimtutor" at the terminal.

1 ^ | v · Reply · Share ›



yogsototh → @killa__bee · 2 years ago

Thanks for the reply, but I mention vimtutor in the conclusion as a way to train you (not exactly learn vim).

1 ^ | v · Reply · Share ›



claytron · 2 years ago

I will be using this to convert new vim users, excellent way of easing in to things!

1 ^ | v · Reply · Share ›



yogsototh → claytron · 2 years ago

Thanks for your kind comment! I greatly appreciate it.

1 ^ | v · Reply · Share ›



Dennis · 2 years ago

Great intro!

Here's an obscure trick I use pretty often...

```
:norm
```

Typing that plus some commands applies the commands to each selected line. So for example, select a bunch of lines that you want to add a semicolon to the end of, then type `:norm A`;

Invoking a macro inside your `:norm` really makes things fun.

1 ^ | v • Reply • Share ›



yogsototh → Dennis • 2 years ago

Thanks, I didn't know that one. I'll try to remember it.

^ | v • Reply • Share ›



Kwpolska • 2 years ago

Not "edition mode" and "insertion mode," but "Normal mode" and "Insert mode."

1 ^ | v • Reply • Share ›



yogsototh → Kwpolska • 2 years ago

Thanks another time, I fixed that too.

^ | v • Reply • Share ›



Seren • 2 years ago

You should add text objects to Vim superpowers. Check `:help text-objects` in Vim. It is one of the Vim superpower that is almost never mentioned.

(`ciw` to change a word under cursor, `dip` to delete current paragraph, etc)

1 ^ | v • Reply • Share ›



yogsototh → Seren • 2 years ago

Thanks for the suggestion. I only mentioned `vi` , I should add some words about them.

1 ^ | v • Reply • Share ›



xie • 16 days ago

Dude, thanks!

^ | v • Reply • Share ›



krishraov • 3 months ago

Brilliant !!! This is such a detailed explanation of the basics. I have been wondering if I should learn Vi or Emacs but the bindings in emacs threw me off ... thanks for this tutorial!!

^ | v • Reply • Share ›



tharun · 5 months ago

how to "saveas" :e saveas <path file="" to=""> ????????could you elaborate plz.....</path>

^ | v · Reply · Share ›



yogsotoh Mod → tharun · 5 months ago

To save as you just need to write:

:w filename

or

:saveas filename

:e is for open, and :w is for save using the current file name.

^ | v · Reply · Share ›



tharun → yogsotoh · 5 months ago

thanx....how abt saving in a different directory?

^ | v · Reply · Share ›



Phil Thompson · 5 months ago

Thanks, this post has been a great help in learning Vim.

I would move `u` and add `CTRL+Q` (turn on flow-control - if Vim appears to stop responding) to the Survive section. I've found that being able to get back to a sane state in Vim is important.

^ | v · Reply · Share ›



behemoth · 7 months ago

Useful

^ | v · Reply · Share ›



Tomas Pruzina · 7 months ago

Best ... vim .. profficiency guide... ever!

<3

^ | v · Reply · Share ›



ersran9 · 9 months ago

This is awesome. Thanks a lot!

^ | v · Reply · Share ›



Ben F · 11 months ago

I thought you should know your "Zone" actions section is a little incorrect. These "zones" or "text objects" work directly from normal

mode, you don't actually NEED to use visual mode for them to work.

yiw yanks the word just as well as yviw.

^ | v • Reply • Share ›



Keith Bowes • 11 months ago

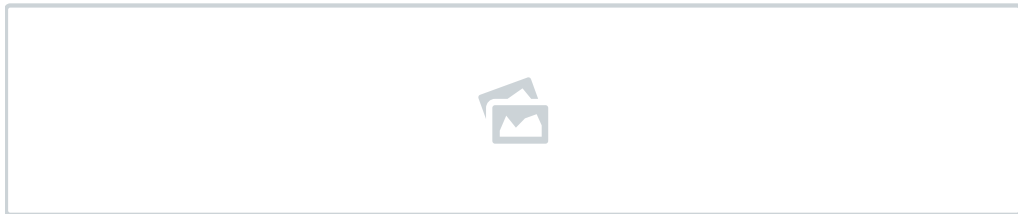
Vim is the best text editor around, no doubt. I've tried others, like Emacs and nano, and they both have a bunch of long key sequences to do common tasks. Vim, though, is so easy! I can't imagine anyone thinking it's hard. It does of course come with vintutor, which will get into step 1 in no time. Though, vim does come with gvim and evim. I can't imagine using evim, though. You might as well use Notepad or something. gvim is about making a transition from GUI text editors to efficiency.

^ | v • Reply • Share ›



Mark • 11 months ago

4.1 picture for illustration is not correct. 'fi' should be point directly to 'i', other than its left word.



^ | v • Reply • Share ›



yogsotoh Mod → Mark • 11 months ago

Thanks I fixed it.

^ | v • Reply • Share ›



Phil Pirozhkov • 11 months ago

"4.3 Select rectangular blocks: " ^ → go to start of the line" is wrong.

^ | v • Reply • Share ›



yogsotoh Mod → Phil Pirozhkov • 11 months ago

Yes thanks, I now use "first non-blank character of the line"

^ | v • Reply • Share ›



Fang • 2 years ago

I am an Objective C developer and am currently learning VIM with hopes of eventually being able to do all text editing and programming with VIM.

I also read your article describing briefly all the languages you have experience with and found that really interesting, and helpful for when

I choose my next programming language to learn.

Your website is really great and I will continue reading it. It is one of the best I have found on programming in general.

One question I have is about plugins. For iOS development, what all plugins if any do you use on your vim? (auto completion, compiler plugins, color & aesthetics). Thanks so much for your posts. They are really insightful.

^ | v • Reply • Share ›



yogsototh → Fang • 2 years ago

Thank you!

All my configuration is here. Sadly, it is much a spaghetti code for now, I don't really use any system to organize it for now.

<http://github.com/yogsototh/Vim-configuration>

Mainly, I use solarize with dark background as coloscheme. I use NERDTree.

I also used a lot of other plugin, but I don't use them much.

Working in Objective-C I don't use a 100% vim for now. I open Xcode and if I need to make big changes I use Vim, for very small updates, I generally use Xcode. I didn't find an easy way to access documentation and run my program easily from vim. But if I find a way I'll certainly blog about it.

^ | v • Reply • Share ›



Fang → yogsototh • 2 years ago

Ah, thank you. Very helpful.

^ | v • Reply • Share ›



Ryan • 2 years ago

Hi there! I've just written an interactive Vim tutorial that would be a good sequel to this article.

<http://rypress.com/articles/utilities/vim-tutoria...>

I'd love to hear your thoughts.

^ | v • Reply • Share ›



yogsototh → Ryan • 2 years ago



Hi Ryan! Sorry for the late reply.

I go through your entire tutorial, but I was a bit fast. This is a great work.

My only complaint is the number of sections which require the user to remember a list of commands before coming back to the tutorial. You might want to start by splitting. This way, it will be easier to have the instructions of your tutorial always visible.

Very good work though!

^ | v • Reply • Share ›

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Yann Esposito©

Done with Vim & ~~nanoc~~ Hakyll