If you're a regular shell user, you've almost centroller, which usually contains various tweaks, directory to \$PATH), telling your shell to do clever a

aliases to commands (like alias please=sudo).

(If you're really organised, you'll have all your dotfiles in a revour settings synchronised across all the machines you work on.)

Anyhow, I suspect that few people know when things like <code>.bash_p</code> executed. When I started, I just followed people's advice of putting stundidn't work, into <code>.bash_profile</code>. I could stop here and describe just the bash stais), but there's a complication in that I switched to zsh a few years ago (and have casionally use bash on machines which don't have zsh installed.

In order to handle this nicely then, I need to be able to specify things which are specific to their own files, and then to specify things which any POSIX-compliant shell (like a environment variables) can understand in a common startup file.

My solution to this problem is to define some new dotfile folders, one for each shell (.bash/, .zsh/ a.sh/), and one for the shell-independent files (.shell/):

```
.bash/
env
interactive
login
logout
.sh/
env
interactive
login
.shell/
env
interactive
login
logout
.zsh/
env
interactive
```

"But!", kinds of sh

- [non-]
- [non-]logil

All shells will first run Once finished, login shells

WHERE TO PUT ST

It all depends on when it needs to be run.

If it's setting / modifying environment variable environment variable (e.g., GREP_COLOR), it shoumask set, and also define some useful functions variables (like \$PATH).

Even if you don't adopt anything else from my scheme, I'd refunctions are doing which differs from something like export PATA

That particular pattern is way too common, and is very dangerous if (or whatever your variable is, like \$LD_LIBRARY_PATH) isn't set. Then, the valusually means both /path/to/dir and the current directory, which is usually be and a security concern.

With my implementation (see .shell/env_functions), you can append, prepend and from any colon-separated environment variable, and when appending or prepend guaranteed that directory will only then appear in that variable once.

As a side note, I'm very disappointed in my indirect_expand() function, so if you have a better so please let me know (or send me a pull request).

IMPLEMENTATION

In order to implement this, you first need an understanding of which startup files are run in each case. Of course, this isn't hard, since all the shells have the same, sensible system. Ahahaha, no.

Fortunately, I've read the man pages for you, and drawn a pretty diagram. To read it, pick your shell, whether it's a login shell, whether it's interactive, and follow the same colour through the diagram. When the arrows split out to multiple files, it means that the shell will try to read each one in turn (working left to right), and will use the first one it can read.



An important point here is that if you have a non-login, no. (dash, bash in sh compatibility mode), it won't fulfil our contra..shell/env).

The other special case which exists is Bash's remote shell mode (which to detect if it's running under ssh or rsh (I assume by looking at the process follows a different path, which is indicated on the diagram.

Except that diagram shows what happens according to the man page, and not what actually try it out in real life. This second diagram more accurately captures the insan





Saxon 'Lemony' Landers • 7 years ago

Interesting, I've never really thought about setting variables for other shells than zsh, considering I use it almost exclusively.

OR SIGN UP WITH DISQUS ?

Name



shu

But I thin

^ | V • R



This comment was deleted.



flowblok Mod A Guest • 7 years

The simplest example is a shear

I actually have no idea what happen and let me know?

As for a definition of an interactive shell, here.

An interactive shell is one started without non-operation whose standard input and error are both connected isatty(3)), or one started with the -i option.

(and of course, all other shells are therefore non-interactive)



Andrey • 3 years ago

Thank you very mush for the nice description and diagrams. But could you ple with descriptions of arrows colors. It will greatly enhance their usability.



Antonio Giráldez → Andrey • 2 years ago

open the graphviz files: the legend you are looking for is in there



Shackra Seaslug • 4 months ago • edited

What do you do for stuff like zplug (which is something for zsh)?

EDIT: Okay, nvm, it is obvious that such zsh specific configuration can go into .zshrc. Next question: what if I want to leave the shell prompt as is, i.e.: for Emacs to work fine with Tramp with sudo.

EDIT 2: after organizing all my shells configurations I've been able to make Tramp work with sudo without further changes to my Emacs configuration, thanks!



Adrian

6 years la

In my experient /etc/bash.bash_log. 4.4/config-top.h:

```
/* System-wide .bashrc
/* #define SYS_BASHRC ")
/* System-wide .bash_logout
/* #define SYS_BASH_LOGOUT ")
```

(Yes, they're disabled by default.)

Check the FILES section of your system's bash man

```
^ | ✓ • Reply • Share ›
```



Christian Herenz • 2 years ago

Hey, thanks for this nice summary. I encounterd that in openSUS insanity to the whole issue, is that they source ~/.bashrc in /etc/profit nuts and i filed a bug report, but I have little hopes that they will fix this: https://bugzilla.opensuse.o...

The original logic beyond all the madness, is that you have fine grained control which case. If you follow the opensuse approach, then this all becomes meaningles \${HOME}/.bashrc is always evaluated.

```
^ | ✓ • Reply • Share >
```



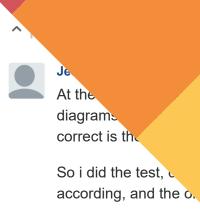
Aneesh P U • 7 years ago

Great post!

When I run bash as an interactive login shell, this seems to be the order of execution of the dotfiles and I think it is slightly different from what you have described.

/etc/bash.bashrc /etc/profile ~/.bashrc ~/.profile

and when ~/. bash_profile is present /etc/bash.bashrc /etc/profile



`~/.bash_profile || ~/.bash_

^ | ✓ • Reply • Share ›



lan Kirker → flowblok • 7 years ago

To further complicate the issue, I believe patches in the Debian build.

^ | ✓ • Reply • Share ›



fumiyas • 7 years ago • edited

Where are /etc/zshrc and \$ENV in the zsh diagram?

^ | ✓ 1 • Reply • Share >



flowblok Mod → fumiyas • 7 years ago

According to the man page, \$ENV is not run in a normal zsh startup procedule emulating sh).

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