FISH - THE FRIENDLY INTERACTIVE SHELL

Jonas Weissensel June 12, 2015 Was ist eine Shell?

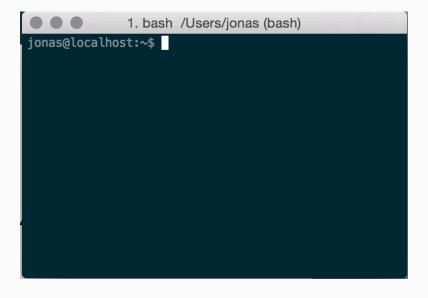
Die friendly interactive shell

Main features

HOW-TO fish

WAS IST EINE SHELL?

WAS IST EINE SHELL?



WAS IST EINE SHELL?

- · Kommandozeileninterpreter CLI
- · Textbasiert
- · für "Power User"

DIE FRIENDLY INTERACTIVE SHELL

INFORMATION

· Initial release: 13.Feb. 2005

· Last stable release: v.2.1.2, 24.Feb. 2015

· License: GPL v2

· Binary packages for Linux & OS X

MAIN FEATURES

FEATURES OUT-OF-THE-BOX

- · Syntax highlighting
- · Tab complete anything
 - · Command-specific tab completions
 - · Descriptions for completions
 - · man-pages based completion
- · Browser based help and fish_config commands
- · Parameter expansion (Globbing)
- · Command-line editor



Figure 1: My prompt

```
function fish_prompt --description 'Write out the prompt'
    set -l last_status $status
    if not set -q __fish_prompt_normal
        set -g __fish_prompt_normal (set_color normal)
    end
    # PWD
    set_color $fish_color_cwd
    echo -n (prompt_pwd)
    set_color normal
    printf '%s ' (__fish_git_prompt)
    if not test $last_status -eq 0
        set_color $fish_color_error
    end
    echo -n '$ '
end
```

HOW-TO FISH

USING FISH

Familiar things

- · Changing directories
- · Copying/Moving files
- · Running programs (in background)

Differences

- · Changing STDOUT and STDERR
- · Running commands in sub-shells
- · Usage of and and or instead of && and ||

Table 1: Some differences in everyday use

Command	Bash	Fish
Move STDOUT	>	>
Move STDERR	2>	^
Run cmd in subshell	\$ (cmd)	(cmd)
	cmd1 && cmd2	cmd1; and cmd2
Combine commands	cmd1 cmd2	cmd1; or cmd2

NO ALIASES - JUST FUNCTIONS

\$ functions

```
., N_, VL, alias, cask, cd, ...
$ functions ls
function ls --description 'List contents of directory'
    command ls -G $argv
end
$ alias ge 'grep $argv | less'
$ functions ge
function ge
    grep $argv | less $argv;
end
$ echo $PATH
/Users/jonas/.rbenv/shims /usr/local/sbin /Users/jonas/Library/Haskell/bin
/usr/local/bin /usr/bin /bin /usr/sbin /sbin /opt/X11/bin /usr/local/MacGPG2/bin
/usr/texbin
```

· fish is non-POSIX compliant

- · fish is non-POSIX compliant
- · Vim needs a sh compatible shell
 - → add set shell=sh to .vimrc

- · fish is non-POSIX compliant
- · Vim needs a sh compatible shell
 - → add **set shell=sh** to .vimrc
- · Setting an environment variable for one command:
 - \$ env LC_ALL=en_US.UTF-8 LANG=en ls++

- · fish is non-POSIX compliant
- · Vim needs a sh compatible shell
 - → add **set shell=sh** to .vimrc
- · Setting an environment variable for one command:

```
$ env LC_ALL=en_US.UTF-8 LANG=en ls++
```

· Exporting an environment variable:

```
$ set -x PATH ~/bin $PATH
```

DOCUMENTATION

```
Official resources
https://www.fishshell.com
https://github.com/fish-shell/fish-shell
corydoras@ridiculousfish.com
oh-my-fish
https://github.com/oh-my-fish/oh-my-fish
```