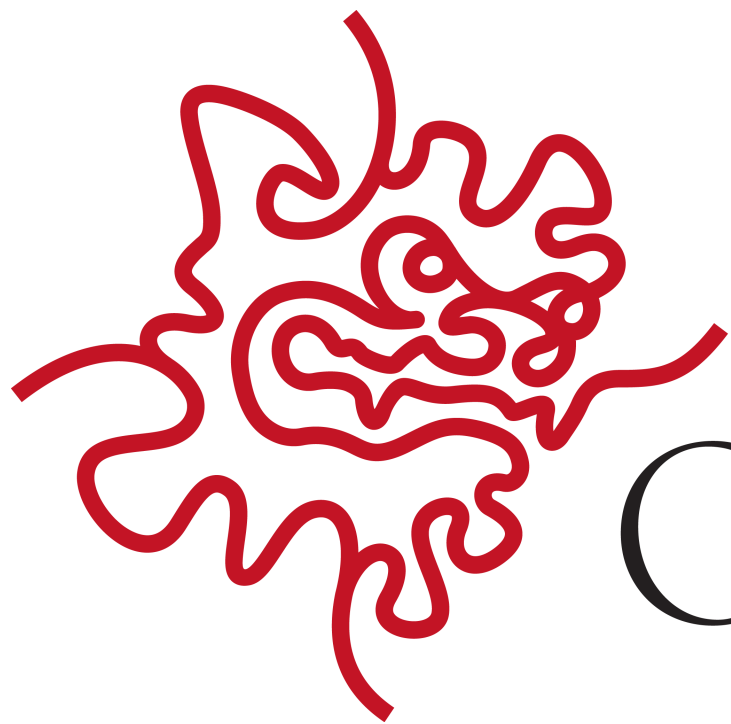


The background of the slide is filled with a dense, scattered pattern of red and white capsules, resembling a rain of pills.

Mini Course: Zsh

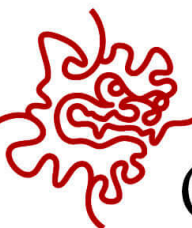
Jeremie Gillet



OIST

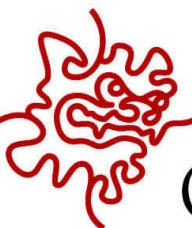
What is Zsh

- Zsh (Z shell) is a Unix shell, much like bash
- Default shell for macOS since Catalina
- Bash commands are 99% compatible
- Has many extra features and a large plugin community
- Disclaimer: I am not a Zsh power user (yet)



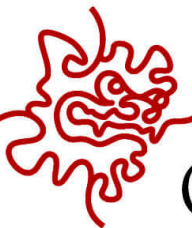
Getting zsh

- Checking your current shell: `echo $0`
- Mac
 - `brew install zsh`
- Linux
 - `sudo apt-get install zsh`
- Making zsh the default shell
 - `sudo sh -c "echo $(which zsh) >> /etc/shells"`
 - `chsh -s $(which zsh)`



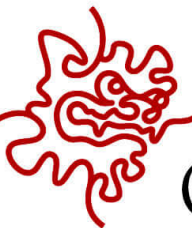
Oh My Zsh

- Framework for zsh configuration
- Installing
 - <https://github.com/ohmyzsh/ohmyzsh/>
- Many themes available
- Many plugins available (GitHub wiki)



Config file

- `vim ~/.zshrc`
- Oh My Zsh added tons of options
- `alias reload="source ~/.zshrc"`



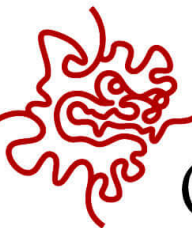
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Features

<https://code.joejag.com/2014/why-zsh.html>

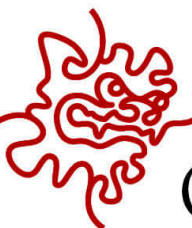
Aliases

- `alias # List of aliases`
- Global aliases
 - Global aliases can be used anywhere
 - `alias -g G=' | grep -i '`
- Suffix aliases
 - Open files according to extension
 - `alias -s php="vim"`



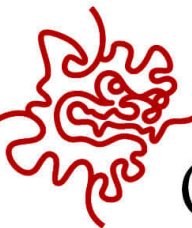
cd

- typing cd is now optional
- `.. # cd ..`
- `... # cd ../..`
- `.... # cd ../../..`
- `- # Back to previous directory`
- `2 # Back to previous previous directory`
- `9 # Back to 9th previous directory`
- `d # Shows history of previous directories`
- `cd old new # Replaces old by new in current directory`



Tab completion on cd

- Tab to autocomplete
- Double tab shows a list that you can navigate through
- Triple tab goes through the list
- Autocomplete paths
 - `cd /Users/jie/Desktop`
 - `cd /Us<TAB>/j<TAB>/Des<TAB>`
 - `cd /us/j/desk<TAB>`
- Autocorrect

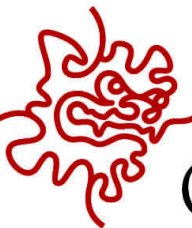


Clever history

- Up for previous command
- First few letters + up for previous commands starting with the letters

Share command history

- All shells share the same history



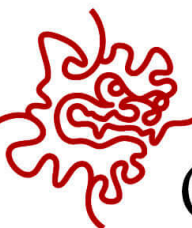
Expand environment variables

- `$PATH<TAB>`



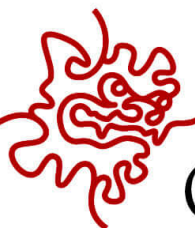
More tab completion

- `kill b<TAB>`
- `git <TAB>`
- `git commit --<TAB>`
- `ls -<TAB>`
- Works on many commands, plugins for many more



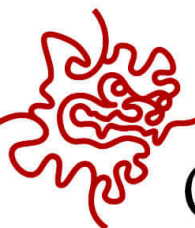
Git

- `alias | grep git`
- Updates prompt in a git folder
- Many many useful aliases



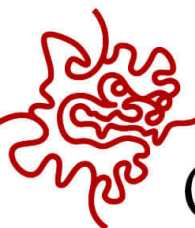
Command failures

- Green arrow turns red on failed commands



Globbing

- `ls foo* # runs => ls foo1 foo2 foot message`
- `ls foo*<TAB> # Expands`
- `ls **/foo* # Recursive search`
- `ls foo[123a-e] # Regex style`
- `ls **/*(.) # Files Only`
- `ls **/*(/) # Folders Only`
- `ls *(.Lm+250) # Glob quantifiers (files over 250MB)`
- Many other globbing features

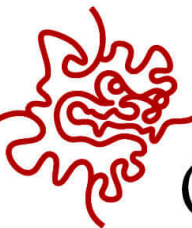


Tabs named

- Tabs are named after the running process

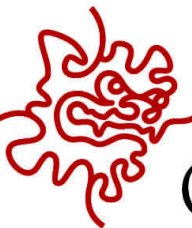
Edit commands in vim

- Long command hard to edit?
 - <CTRL>+X <CTRL>+E



Boosted commands

- Try these on aliases
 - which
 - where



The background of the image is a light cream color, densely populated with numerous small, stylized capsules. Each capsule is oriented horizontally and features a red half and a white half, separated by a thin black line. The capsules are scattered across the entire frame, creating a textured, patterned effect.

Thank you