

Advanced C Shell

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Alias

alias name commands

- Give another name to a command or command sequence
- Why? Make your commonly used command sequences short and convenient to use
 - alias disk du -sk /net/sal/home/yao/
- alias name
 - Give out the commands of this alias
- unalias name
 - Release an alias

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Alias (cont.)

- Multiple commands
 - alias mac 'hostname; uname'
 - alias people 'who | wc -l'
- Nested aliases
 - alias la ls -a -F
 - alias ll la -l
- Same name alias
 - alias who 'date; who' <WRONG>
 - alias who 'who; date'

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Alias (cont.)

- Arguments
 - When the argument is at the end
 - When the argument is in the middle
 - !^: word 1
 - !*: all the words except word 0
- Command search order
 - Alias
 - Shell built-in commands
 - Program commands in your search path (\$path)

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Applications

- ls
 - alias ls ls --color -F
 - alias ll ls --color -F -l -a
 - alias la ls --color -F -a
- emacs
 - alias emacs emacs -bg 'gray'
 - alias emacs emacs -nw -bg 'gray'
- alias 352 cd /home/cs352/summer03/
- alias clean rm -rf *~ .*~ core

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History

- history: list all the commands in the history
- history n: list the last n commands
- History -r: most recent command first
 - Snapshot of all the commands, even the wrong ones
 - Record the command before the expansion
 - Record the history command itself
- set history=30

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History (cont.)

- !n: redo command n (n is positive)
- !!: redo the previous command
- !-n: redo the nth last command (n is positive)
- Redo by Matching Strings
 - !vi: find and redo the most recent command starting with "vi"
 - !?text?: find and redo the most recent command that contains "text"
- Up/Down Key

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History (cont.)

- !\$: the last word of the last command
- !!:n: word n of the last command
- !-2:n: word n of the 2nd last command
- !20:2-\$: word 2 through the last word of the command 20
- !30:1-3: word 1, 2 and 3 of command 30
- !*: word 1 through the last word of the previous command
- !50:*: word 1 through the last word of the command 50

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Command Line Edit

- ^old^new: correct the previous command by replacing "old" with "new"
- Up/Down: history commands
- Left/Right: move cursor on the current command line
- ^w: kill a word
- ^u: kill the whole command line
- ^a: move to the left end
- ^e: move to the right end
- ESC p: copy the previous command that match what you've typed on the command line
- ESC n: copy the next command that match what you've typed on the command line
- bindkey: List all bound keys
- TAB: command completion

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Shell Configuration Scripts

- tcsh
 - .login: Login startup script
 - Environment variables
 - Per login programs to run at startup: mail, calendar
 - .tcshrc: Shell startup script
 - Aliases
 - Shell variables
 - .logout: Logout script (only for login shell)
- bash
 - .profile: Login startup script
 - .bashrc: Shell startup script
 - .bash_logout: Logout script (only for login shell)

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Acknowledgement

- John H. Hartman, *Classnotes for Csc352-Spring03*, CS Dept., University of Arizona, 2003
- Gail Anderson, Paul Anderson, *The Unix C Shell Field Guide*, Prentice Hall, 1986

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