

# TCSH CheatSheet

## I/O Redirection

input	command < file
output	command > file
append	command >> filename
output STDIN+STDERR	command >& file
append STDIN+STDERR	command >>& file
If noclobber is set:	
output	command >! file
append	command >>! file
output STDIN+STDERR	command >&! file
append STDIN+STDERR	command >>&! file
pipe	command   command
subshell	( command ; command )
execute in subshell	`command args`

## Special characters

~ \* ^ ? [ ] { } \$ | < >  
! & ; \ ' " ` ( )

## Wildcards

0 or more	*
1 character	?
range	[...]
not in range (buggy)	[^...]
not match pattern	^pattern
string expansion	{...}
home dir expansion	~
user's home dir	~user
Exaple:	ls file{,1,2}
Result:	ls file file1 file2

## History

previous	!!
n command	!n
nth-to-last command	!-n
command begins with str	!str
command contains str	!?str?
current command line	!#
Word designators:	
word 0	0
word n	n
word 1	^
last word	\$
m thru n	m-n
0 thru n	-n
m thru last word (no include)	m-
0 thru last word (no include)	-
m thru last word	m*
1 thru last word (or empty)	*
(following !?str?) word match	%
Examples:	!!:^ !5:\$ !#:2
Short versions:	!* !^ !\$ !% !#^
Modifiers:	
short for !!:s/old/new/	^old^new
root of filename	r
extension of filename	e
head of pathname	h
tail of pathname	t
substitute	s/old/new/
repeat previous substitution	&
modifiers	a g l p q u x

## Job Control

stop foreground job	CTRL-Z
terminate fg job	CTRL-C
stopped/bg job to fg	fg %j
stopped job to bg	bg %j
kill stopped/bg job	kill %j
stop bg job	stop %j
suspend shell	suspend
display job list	jobs -l
Forms of %j:	
current job	% %+ %%
previous job	%-
job n	%n
job begins with str	%str
job contains str	!?str %\?str
Short versions:	
fg %j	%j
fg %	fg
fg %	%
bg %j	%j&
bg %	bg
bg %	%&
run in bg	command &

## Prompt

Colored prompt:  
%{\033[32m}%h%\033[0m%}  
history number %h  
> user, # root %#  
short path %~