Shell command line substitutions (expansions) revisited

*, ?, [] — substitute all matching filenames "..." — only variable and command expansion \$var --- substitute value of variable var (try echo \$PATH) '...' — pass everything as-is {} — substitute all choices \ — escape next char ..., command,... — substitute the output of a command

Combining commands (revisited)

: — do nothing command1 || command2 — run command2 if command1 failed command1 && command2 — run command2 if command1 succeeded (command1; command2; command3 ...) — run commands in a subshell command1; command2 — run commands sequentially

Bourne shell scripts

fi	else command3	then command2	elif condition2	then command1	if condition1	Branching
		done	commands	do	for var in list	for loop
		done	commands	do	while condition	while loop

if condition; then command; fi is the same as condition && command

if condition; then :; condition || command else command; fi is the same as

Shell scripts

When a first line in a text file has a form

#!/full/path/to/program options

running and the file is executable, than running file arguments is the same as

/full/path/to/program options file argument

Such a file would be called a script

Shell scripts: 0 is a script name, i is an i-th argument (1 <= i <= 9),

\$* is all arguments

Conditions — test

test condition Or [condition]

	Meaning file exists and is a regular file file exists and is readable file exists and a directory string has non-zero length opposite of -n strings are identical
-z string	opposite of -n
	strings are identical
n1 -gt n2	n1 is greater than n2
n1 -lt n2	n1 is less than n2
(condition)	same as condition
condition1 -a condition2	both are true
condition1 -o condition2 either one is true	either one is true