Command Line Arguments Command Line Arguments • Arguments provided to your program via the command line. - Not read from user input • in C/C++: $- { t argv[} { t]}$ contains program name and - argc contains number of arguments plus one • in Perl: - @ARGV contains list of arguments - \$0 contains program name Examples: myscript.pl 15 4 hello - @ARGV Ł (15, 4, 'hello') - \$0 ₺ 'myscript.pl' -scalar(@ARGV) & 3 • perl_hw2.pl -@ARGV Ł () - \$0 ½ 'perl_hw2.pl' -scalar(@ARGV) Ł 0

Notes

- These are true globals no matter what package you're in, \$0 always means \$main::0, @ARGV always means @main::ARGV
 - unless you've declared a lexical @ARGV
 don't do that.
- Depending on your system, \$0 may contain just the script name, a relative path to the script, or an absolute path.

Some Magic

- The standard <> operator has some magic built into it
- When "empty", <> will open the first file specified on the command line, and begin reading it.
 - Once it's exhausted, will open the next file, etc.
 - If another call to <> occurs after all arguments, <> begins reading from STDIN
- While <> is processing command line arguments, \$ARGV contains the name of the current argument.
- If any file can't be opened, a warning is issued, and processing continues with the next one.

Magic Example

- myscript.pl file1.txt sample
 while (<>){
 chomp;
 print "\$ARGV, line \$. = \$_\n";
 }
- open file1.txt, print out all lines in that file
- open sample, print out all lines in that file
- · loop terminates.
- At this point, @ARGV Ł ()
 - any future reads to <> will read from STDIN
