Inputs and Outputs

Inputs - ARGV

- Our arguments can be obtained via array @ARGV
- Always assign this array to an array you define in your code! my @arguments = @ARGV;

Inputs - STDIN

>bin/02-stdin.pl

Enter a number: 12

You entered 12. The square of this number

- Understand the main ways of obtaining data into a program that are not file/db
- Have an idea about the two main outputs
- output it to screen Be able to write a script which can take in an a user input, do something to it, and

Inputs - ARGV

We can then do as we like with the array foreach my \$argument (@ARGV) {

say \$argument;

This is by far the simplest, most convenient way of getting any data in. People expect it, you don't need to worry about interactivity.

Inputs - STDIN

print 'Enter a number: ';

- We ask the user for something
- my \$number = <STDIN>;
- wait for something from the keyboard, <STDIN> is the filehandle, and tells perl to followed by a newline (enter)
- will be lost. We then must assign it to a variable, or it

Inputs - ARGV

- The ARGV array is the array of arguments bin/01-argv.pl that you pass in on the command line
- Run the above script with some arguments >bin/01-argv.pl I love perl

love.

perl

Inputs - STDIN

- The command line is very nice. However, it's no good if you want to interact with your
- For this we use the STDIN filehandle. A interacts with a source of data whilst running. filehandle is a way that the program
- STDIN is a filehandle for input from the keyboard (usually)

Inputs - STDIN

chomp \$number;

- We take off the newline with the chomp say "You entered \$number. The square of this number is ". \$number**2.'; method, since we want a number only
- Feedback to the user their number, and do something with it.

Inputs - DATA

- Sometimes, it is worth having the input data (or some at least) in the file with the code - when unlikely to change much!
- in the code, and directly assign The obvious thing would be to put this data my @info = qw{hair eyes nose chin};
- But, it isn't very easy to find, or for a nonprogrammer to read.
- Solution: the DATA filehandle and tag

Inputs - DATA

Caught in a Landslide Is this just fantasy? Is this the real life?

__DATA__

No escape from Reality ...

 So, after the marker, we can write any text, <DATA> filehandle is used, as input and perl will look at it only once the

Outputs - STDERR

- STDERR is the filehandle that errors go to.

>bin/05-stdout.pl

line 5. l am warning to STDERR at bin/05-stderr.pl

I am dying to STDERR at bin/05-stderr.pl

By default, STDERR inherits from the shell its error location

Inputs - DATA

>bin/03-data.pl

Is this just fantasy? Is this the real life?

No escape from Reality ... Caught in a Landslide

Song lyrics don't tend to change much, but they would clutter the code up

Outputs - STDOUT

- STDOUT is the generally the window you are working in.

bin/04-stdout/pl

I am saying to STDOUT

I am printing to STDOUT

Outputs - STDERR

- Lets look at bin/05-stdout.pl die 'I am dying to STDERR'; warn 'I am warning to STDERR';
- STDERR The warn and die methods both output to
- The difference between STDOUT and (e.g. LSF options) log), or an environment setting changes it STDERR to output to a file (e.g. server STDERR happens if you decide to overide

Inputs - DATA

while (my \$line = <DATA>){ print \$line;

<DATA> is a special filehandle which says following special markers: __DATA__ or to read all the text after either of the

The perl parser knows there is no more code after either of these markers

Outputs - STDOUT

- print "I am printing to STDOUT\n"; If we look at bin/04-stdout.pl say 'I am saying to STDOUT';
- say and print both go by default to STDOUT without the need to specify a

lask

- Spend the next few minutes writing a script
- Has 2 inputs from different methods
- Does something with those inputs
- Outputs the result of what you did
- We will take a look at a couple.
- It doesn't matter what input methods of the change them (look back at string/numbers 3 you use, or what you do to process and in previous section)