

Running a Perl Program

#!

- Usually # signifies a comment in almost all languages
- Exception, first line found with a ! after it
- Tells the computer that this is the interpreter to use

Lets run it!

- If we run `ajb>bin/shebang.pl`
- The computer executes `/Users/ajb/dev/bin/perl -w bin/shebang.pl`
- Try this

Aims

- Understand how to write a perl script
- How you run it

/Users/ajb/dev/bin/perl

- The full file path of the interpreter executable
- This executable is responsible for compiling and running the rest of the script

That didn't do anything!

- We now need to add some statements to execute
- The first one anyone ever writes for any language is `hello_world`

Shebang

- All scripts need to start with a hashbang (shebang) line (see `bin/shebang.pl`)

#!/Users/ajb/dev/bin/perl (-wT)

- Lets take a look at this

(-wT)

- Optional arguments can be provided as though this were a command line
- `w` and `T` are the most common
- We will mostly be using `w` (warnings)
- `T` stands for Taint mode, and is used mainly on web applications

bin/hello_world.pl

- We add in a statement `print "Hello World!";`
- Run it `ajb>bin/hello_world.pl`
`Hello World!ajb>`

Lets look at the statement.

print

- print is a 'function' or 'keyword'. It tells perl to print the next argument
'Hello World!'
- A string argument, that we want printed
;
- commands need a ; to signify that the command has ended – leaving it out will break your code

comments

- Look in the file
bin/hello_world.pl
- You'll see
this is a comment to explain print (do this function on) 'Hello World!' (this string) ;
(end of statement)
- Anything after a # until the end of the line is a comment, and is ignored

Failing scripts

- Perl tries to be helpful when scripts fail
ajb>bin/fail_world.pl
Illegal division by zero at bin/fail_world.pl
line 4
- This is helpful. We know what the error is, and where it is in the script.
- Sometimes some investigation further is needed, but it helps.

External Code

- You can pull in extra code (modules) to provide extra functions
use Modern::Perl;
say 'Welcome, to a whole new world.';
- The *use* keyword tells the interpreter to go and locate this code, and compile and run it, and gives us *say*

External Code

- ```
ajb>bin/brave_new_world.pl
Welcome, to a whole new world.
ajb>
```
- Try removing the *use* line, save and retry
  - BIG ERROR message – *say* function doesn't exist

## Summary

- You must have the shebang line:  
#! /Users/ajb/dev/bin/perl (-wT)
- Statements follow  
<function> <parameters>;
- Use external code  
*use Modern::Perl;*
- Failures fail, and try to be helpful

Any questions so far?