

IT441

Network Services Administration

Handling Text: *Strings*

DRAFT

Pipes in Perl

- What is a pipe?
- Why do we use pipes?
- In Perl, we implement pipes using the OPEN statement
 - `open (FH, -|, 'perl sort2.pl gettysburg.txt') ;`
 - What will this statement do?
 - It will start a Perl program `sort2.pl` using the file `gettysburg.txt` and send the output from `sort2.pl` into our program under the filehandle `<FH>`

Pipes in Perl

- `-|` brings the output of the other program into our program via the filehandle
- `|-` takes the output of our program and sends it to the other program using the file handle and a print statement

File Tests

- Before we do anything we often would like to know the status of the file or directory we are working with.
- We can do this with the following type of test
 - `if (flag "somefile.dat") {action}`
 - or
 - `if (flag $somefile) {action}`

File Test Flags

- **-e** true if the file exists
- **-f** true if a plain file – not a directory
- **-d** true if file is a directory
- **-z** true if file has zero size
- **-s** true if file has nonzero size -- returns size
- **-r** true if file is readable by you
- **-w** true if file is writeable by you
- **-x** true if file is executable by you
- **-o** true if file is owned by you

This is **Table 8-1** on **page 201** in the textbook

String Processing

- Remember *strings* are the basic data type in Perl
- We have already learned one way to process a string.
 - We can use a *regex* (a regular expression)
- Remember how the characters in a string are counted
 - The first (left most) character is **0**
 - The last (right most) character is **-1**
- There are other ways to process strings in Perl
- Perl has many built-in functions to process strings.

String Functions

- Some string functions implemented in Perl
 - **length(string)**
 - Use this function to determine the length of the string.
 - **index(string, substring)**
 - Use this function to determine the 0-based location of the substring in the string. If substring is not found it returns a -1.
 - **rindex(string, substring)**
 - Similar to **index()** but starts from the right-most end.
 - **substr(string, starting-index, length)**
 - This function returns a substring of **length** number of characters starting from **starting-index**.