



# Fundamentals of Data Management

## Pass Tasks 1.1: Text Processing and Regular Expressions

### Overview

As a first step, install the VMWare Player and open the Ubuntu environment provided on Blackboard. Then work through the text processing tasks and document your answers to the questions.

### Purpose

Learn how to use command-line tools to manipulate text without the need for an editor. Use regular expressions to search for different variations of text.

### Task

Open the VM provided in a VMWare Player. Use command line tools and regular expressions to find strings in files.

### Time

This task should be completed in your first lab class and submitted for feedback at the end of lab 1 or the beginning of lab 2.

### Resources

- Online modules (from Blackboard)
- Regular Expressions tutorial: <http://www.regular-expressions.info/>
- Free VMWare Player, available:

[https://my.vmware.com/web/vmware/free#desktop\\_end\\_user\\_computing/vmware\\_player/7\\_0](https://my.vmware.com/web/vmware/free#desktop_end_user_computing/vmware_player/7_0)

- Video demonstration on Blackboard (vm-intro.mp4)

### Feedback

Discuss your solutions with the tutorial instructor.

### Next

Get started on module 2.

## Pass Tasks 1 — Submission Details and Assessment Criteria

Document your solutions to the tasks in a report using a word processor and upload to Doubfire as pdf. Your tutor will discuss the tasks with you have uploaded them.

## Subtask 1.1.5

Consult the grep manual (command: `man grep`) and find out how you can add line numbers to your output.

Also, find out from the manual how to write a command that returns the number of matches rather than printing the matches.

Try out both commands using the command for subtask 1.3.