

More on grep in Linux

Spoken Tutorial Project
National Mission on Education through ICT
<http://spoken-tutorial.org>

Script
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Learning Objectives



Learning Objectives

- ▶ Some more on **grep** command



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- ▶ Some more on **grep** command
- ▶ with the help of some examples



System Requirements



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- ▶ **GNU/Linux OS**



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- ▶ **GNU BASH v. 4.2.24**



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- ▶ **GNU BASH v. 4.2.24**
- ▶ **GNU BASH version 4 or above is recommended for practise**



Prerequisites



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- ▶ You should know basics of Linux Terminal



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Match more than one pattern

We can match more than one pattern



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- ▶ Use the **-e** option



Regular Expressions

A regular expression



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Regular Expressions

A regular expression

- ▶ Provides a concise and flexible means for matching strings of text
- ▶ such as particular characters, words or patterns of characters
- ▶ **There are a number of regular expression characters**



The Character Class []



The Character Class []

- ▶ **Allows us to specify a group of characters, within a pair of square brackets**



The Character Class []

- ▶ Allows us to specify a group of characters, within a pair of square brackets
- ▶ Only one out of this group of characters is matched



The Character Class []

- ▶ Eg. **[abc]** would mean that this regular expression matches either **a** or **b** or **c**



Range

- ▶ If we want to specify a large range then write:



Range

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- ▶ **first letter dash last letter of the range**



Range

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- ▶ Suppose we like to match any digit we simply write **[0-9]**



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- ▶ Suppose we like to match any digit we simply write **[0-9]**
- ▶ **One out of this group of characters is matched**



The Asterisk



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- ▶ The * refers to 0 or more occurrences of the immediately preceding character



The Asterisk

- ▶ The ***** refers to 0 or more occurrences of the immediately preceding character
- ▶ For example **ab*** can match **a**, **ab**, **abb**, **abbb** etc.



Summary

- ▶ To match more than one pattern
eg. `grep -e "electronics" -e "civil" grepdemo.txt`
- ▶ To check a word that has different spelling
eg. `grep -ie "choudhury" -ie "chowdhari" grepdemo.txt`



Summary

- ▶ Character class
eg. `grep -i "ch[ao][uw]dh[ua]r[yi]" grepdemo.txt`
- ▶ The use of `*`
eg. `grep -i "m[ei]*raa*" grepdemo.txt`
- ▶ To match any one character using dot
eg. `grep "M..." grepdemo.txt`



Summary

- ▶ To match a pattern at the beginning of the file
eg. `grep "Â" grepdemo.txt`
- ▶ To match a pattern at the end of the file
eg. `grep "[78]...$" grepdemo.txt`



Assignment

- ▶ List those entries that are 5 letters long and starts with Y



About the Spoken Tutorial Project

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Spoken Tutorial Workshops

The Spoken Tutorial Project Team

- ▶ Conducts workshops using spoken tutorials
- ▶ Gives certificates to those who pass an online test
- ▶ For more details, please write to contact@spoken-tutorial.org



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- ▶ More information on this Mission is available at:

<http://spoken-tutorial.org/NMEICT-Intro>

