

More on grep

Talk to a Teacher

<http://spoken-tutorial.org>

National Mission on Education through ICT

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Script

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Learning Objectives



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- **Some more on grep command**



Learning Objectives

- ▶ **Some more on grep command**
- ▶ **Some examples**



System Requirements



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- **Ubuntu Linux v. 12.04 OS**



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- ▶ **Ubuntu Linux v. 12.04 OS**
- ▶ **GNU BASH v. 4.2.24**



Prerequisites



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- ▶ **You should know Basics of linux terminal**



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- ▶ You should be aware of grep



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Regular Expressions

A regular expression

- Provides a concise and flexible means for matching strings of text



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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



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Range



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Range

- ▶ If we want to specify a large range then write:
- ▶ **first letter dash last letter of the 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



The Asterisk

- ▶ 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 "A" 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>

