

# More on grep

**Talk to a Teacher**

<http://spoken-tutorial.org>

**National Mission on Education through ICT**

<http://sakshat.ac.in>

Script

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Narration

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# Learning Objectives



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- ▶ **Some more on grep command**



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- ▶ **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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# Regular Expressions

## A regular expression

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## 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 [ ]



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



# The Character Class [ ]

- ▶ Eg. [abc] would mean that this regular expression matches either a or b or c
- ▶ **One out of this group of characters is matched**



# Range



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# Range

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

- ▶ Watch the video available at [http://spoken-tutorial.org/What\\_is\\_a\\_Spoken\\_Tutorial](http://spoken-tutorial.org/What_is_a_Spoken_Tutorial)
- ▶ It summarises the Spoken Tutorial project



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- ▶ It summarises the Spoken Tutorial project
- ▶ If you do not have good bandwidth, you can download and watch it



# 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](mailto:contact@spoken-tutorial.org)



# Acknowledgements

- ▶ **Spoken Tutorial Project is a part of the Talk to a Teacher project**
- ▶ **It is supported by the National Mission on Education through ICT, MHRD, Government of India**
- ▶ **More information on this Mission is available at:**

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

