

Inspection and Comparison of Git

Spoken Tutorial Project

<http://spoken-tutorial.org>

National Mission on Education through ICT

<http://sakshat.ac.in>

Priya K

IIT Bombay

19 June 2015



Learning Objectives

In this tutorial, we will learn about



Learning Objectives

In this tutorial, we will learn about

- ▶ `git diff`



Learning Objectives

In this tutorial, we will learn about

- ▶ `git diff`
- ▶ `git show`



Learning Objectives

In this tutorial, we will learn about

- ▶ `git diff`
- ▶ `git show`
- ▶ `git blame`



Learning Objectives

In this tutorial, we will learn about

- ▶ `git diff`
- ▶ `git show`
- ▶ `git blame`
- ▶ `git help`



System Requirements

For this tutorial, I am using



System Requirements

For this tutorial, I am using

- ▶ **Ubuntu Linux 14.04 OS**



System Requirements

For this tutorial, I am using

- ▶ **Ubuntu Linux 14.04 OS**
- ▶ **Git 2.3.2**



System Requirements

For this tutorial, I am using

- ▶ **Ubuntu Linux 14.04 OS**
- ▶ **Git 2.3.2**
- ▶ **gedit Text Editor**



Prerequisites



Prerequisites

- ▶ You should have knowledge of running **Linux** commands on the **Terminal**



Prerequisites

- ▶ You should have knowledge of running **Linux** commands on the **Terminal**
- ▶ If not, for relevant **Linux** tutorials please visit www.spoken-tutorial.org



HEAD and HEAD~



HEAD and HEAD~

- ▶ **HEAD** - The latest revision is always **HEAD**



HEAD and HEAD~

- ▶ **HEAD** - The latest revision is always **HEAD**
- ▶ **HEAD~** - The latest-1 revision is always **HEAD~** or **HEAD~1**



HEAD and HEAD~

- ▶ **HEAD** - The latest revision is always **HEAD**
- ▶ **HEAD~** - The latest-1 revision is always **HEAD~** or **HEAD~1**
- ▶ **HEAD~2** - The latest-2 revision is always **HEAD~2**



HEAD and HEAD~

- ▶ **HEAD** - The latest revision is always **HEAD**
- ▶ **HEAD~** - The latest-1 revision is always **HEAD~** or **HEAD~1**
- ▶ **HEAD~2** - The latest-2 revision is always **HEAD~2**
- ▶ **HEAD~3** - The latest-3 revision is always **HEAD~3**



Syntax to get help



Syntax to get help

- ▶ `git help <verb>`



Syntax to get help

- ▶ **git help <verb>**
- ▶ **git <verb>--help**



Syntax to get help

- ▶ `git help <verb>`
- ▶ `git <verb>--help`
- ▶ `man git <verb>`

Example: `git help show`



Summary

- ▶ **git diff**
- ▶ **git show**
- ▶ **git blame**
- ▶ **git help**



Assignment

Explore the following commands

- ▶ **git reflog**
- ▶ **git diff HEAD~ HEAD**
- ▶ **git show HEAD**
- ▶ **man git diff**



Acknowledgement

- ▶ Watch the video available at http://spoken-tutorial.org/What_is_a_Spoken_Tutorial
- ▶ 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



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>

