

The Spoken Tutorial Project

- Self-explanatory: uses simple language
- Audio-video: uses multisensory approach
- Small duration: has better retention
- Learner-centered: learn at your own pace
- Learning by doing: learn and practise simultaneously
- Empowerment: learn a new **FLOSS** (Free/Libre and Open Source Software)

Target Group

- Programmers
- Web developers
- Project managers

Workshops

The Spoken Tutorial Project Team conducts workshops on Git and other FLOSS using spoken tutorials and gives certificates to those who pass an online test.

For more details, please visit <https://spoken-tutorial.org>

Forum

We have developed a beginner friendly Forum to answer specific questions pertaining to any part of a particular tutorial.

For more details, please visit <https://forums.spoken-tutorial.org>.

The Spoken Tutorial Project is funded by the National Mission on Education through Information and Communication Technology, Ministry of Human Resource Development, Government of India.

Contact us

Email: contact@spoken-tutorial.org
Website: <https://spoken-tutorial.org>

Forum help available to all learners

Content available in 22 Indian languages



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Spoken Tutorial

<https://spoken-tutorial.org>



Scan the QR code to visit Spoken Tutorial website



National Mission on Education through Information and Communication Technology (NMEICT)

www.sakshat.ac.in

Funded by MHRD, Government of India.

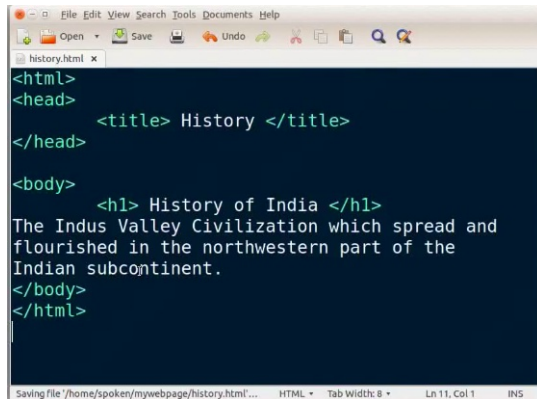
Introduction

- **Git** is a distributed version control system
- It is a free and open source software
- It is designed to handle small to very large projects with speed and efficiency

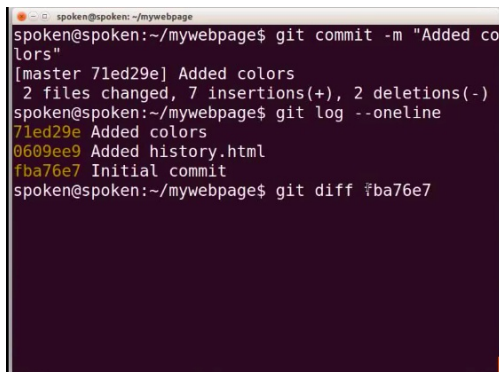
Download and Installation

Install **Git** on **Ubuntu Linux** using **Ubuntu Software Center**

Download and Install **Git** for Windows from www.git-scm.com



```
<html>
<head>
  <title> History </title>
</head>
<body>
  <h1> History of India </h1>
  The Indus Valley Civilization which spread and flourished in the northwestern part of the Indian subcontinent.
</body>
</html>
```



```
spoken@spoken:~/mywebpage$ git commit -m "Added colors"
[master 71ed29e] Added colors
 2 files changed, 7 insertions(+), 2 deletions(-)
spoken@spoken:~/mywebpage$ git log --oneline
71ed29e Added colors
0609ee9 Added history.html
fba76e7 Initial commit
spoken@spoken:~/mywebpage$ git diff fba76e7
```

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**

Features

- Git is easy to learn
- It is a source code management system for software development
- Git keeps track of changes made to a file or set of files
- It allows developers to work collaboratively
- It manages and stores versions of projects
- It helps in tracking the project progress history
- It is easy to recover previous versions of our work
- It records the complete history of all the changes
- Conflicts can be easily resolved using the suggestions given by Git
- If there is loss of data, it can be restored from any of the client repositories

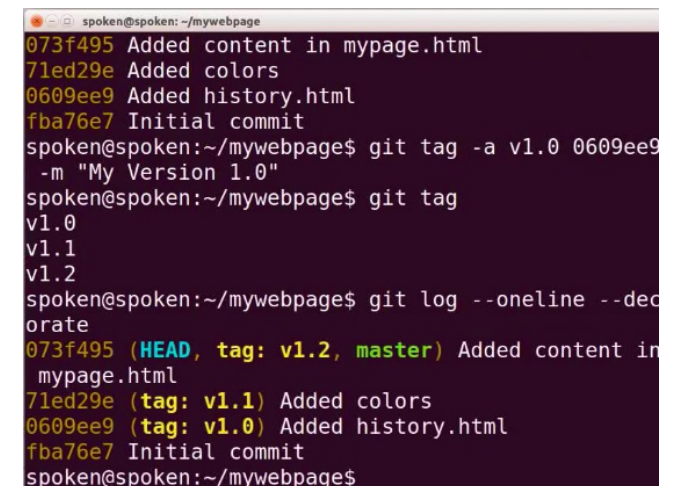
Spoken Tutorials in Git Series

Basic Level Tutorials

- Overview and Installation of Git
- Basic commands of Git
- The git checkout command
- Inspection and Comparison of Git
- Tagging in Git
- Branching in Git
- Merging and Deleting branches
- Stashing and Cleaning

Intermediate Level Tutorials

- Hosting Git Repositories
- Working with Remote Repositories



```
spoken@spoken:~/mywebpage
073f495 Added content in mypage.html
71ed29e Added colors
0609ee9 Added history.html
fba76e7 Initial commit
spoken@spoken:~/mywebpage$ git tag -a v1.0 0609ee9 -m "My Version 1.0"
spoken@spoken:~/mywebpage$ git tag
v1.0
v1.1
v1.2
spoken@spoken:~/mywebpage$ git log --oneline --decorate
073f495 (HEAD, tag: v1.2, master) Added content in mypage.html
71ed29e (tag: v1.1) Added colors
0609ee9 (tag: v1.0) Added history.html
fba76e7 Initial commit
spoken@spoken:~/mywebpage$
```