

Git & GitHub: Branching, Merging & Pull Requests

Learn to use Git and GitHub for branching, merging, rebasing and managing pull requests across repositories.

21

MODULES

15

HANDS-ON ACTIVITIES

COURSE OVERVIEW

This course is all about Git and GitHub. Version control system (VCS) is the center of any file based project. Whether you're a software developer, project manager, team member, student, or anyone who works on file based projects, keeping track of changes is essential to creating a great product. In this course, Understanding and Mastering Git and Github - Beginner to Expert, you'll learn the popular version control system Git and why it plays a significant role in creating better projects. First, you'll learn the basics of Git and how it works under the hood to create better objects. You will learn Git objects like blobs, trees, annotated tags etc. You will learn the internal structure of the Git repository. Concepts of branches, merging branches, rebasing etc are well covered in this course. You will use not just terminal and shell commands for performing Git operations. In parallel you will also use GUI applications that simplify routine day-by-day Git operations: GitHub Desktop, SourceTree, VisualStudio Code.

WHO THIS COURSE IS FOR

Who this course is for:

If you are involved in file based projects and are concerned about different versions of the project

You may know how to USE Git but you may not know HOW Git works

If you want to learn HOW Git and GitHub work - this course is for you!

PREREQUISITES

Prerequisite

- No formal prerequisite. Basic computer literacy is required.

21 Modules

01

Introduction to Version Control Systems

02

Introduction to Git and GitHub

03

Installation of Git and Configuration of Shell

04

Basic Shell Commands

05

Working of Git

06

Basic Git Operations

07

Git Branches and HEAD

08

Merging Branches

09

GitHub and Remote Repository

10

Cloning, Exploring and Modifying Public Repository

11

Git Fetch, Git Pull and Git Push

12

Pull Requests

13

Forking and Contribution to Public Repository

14

Git Tags and Rebasing

15

Github Issues and Labels

15

Watch, Star, Raw, Blame and History of File on Github

16

Ignoring Files in Git

17

Detached HEAD

18

Advanced Git

19

GitHub Pages

20

Git Hooks

7 Activities

8 Activities

Chapters 3 to 20 includes Hands-On activities.

HANDS-ON ACTIVITIES

Practise What You Learn

#	MODULE	MULTIPLE PRACTICE GIT ACTIVITIES	DIFFERENT GITHUB FEATURES
20	Git Hooks	■ Initialize new Git repository ■ Make changes, add them to staging area and commit ■ Create branches, checkout branches and merge branches ■ Perform fast-forward and 3-way merges of the branches ■ Resolve merge conflicts ■ Move into detached HEAD state and make experimental commits there ■ Perform rebasing of the branches	■ Connect local and remote repositories ■ Pushing, fetching and pulling operations ■ Open Pull Request ■ Merge Pull Request ■ Add software versions using Git Tags ■ Create forks from other repositories ■ Contribute to public repositories using technique of forks and pull requests ■ Perform rebasing with squashing

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

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✉ info@koenig-solutions.com