

Introduction Git Using GitHub

Course Summary

Description

For those needing a quick introduction to Git and GitHub, this course will cover the basics to support jumping in to support the team with confidence. With practical demonstrations and hands-on exercises, the student will build the skills needed to use git in project work. Understanding the distinctions between a local and remote repository is critical for successful use of Git. As such, this one day training will cover the concepts of what a distributed version control system is, walk through the life of a git project from initialization locally to using GitHub for synchronization remotely. The practical day to day commands to keep the repository up to date are discussed in-depth with meaningful activities to ensure git will be used effectively on the job!

Objectives

After taking this course, students will be able to:

- Understand what a distributed version control system is
- Perform basic git commands to update the local and remote repositories
- Leverage branches for isolation of work
- Use GitHub to collaborate with the team

Topics

- Git Concepts
- Branching
- Merging
- Working with GitHub

Audience

This course is designed for developers.

Prerequisites

- Familiar with the software development process is assumed. Comfortable working on windows is required.
- Experienced working from the command line is an asset.

Duration

One day

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Course Outline

- I. Introducing Git*
 - A. Version Control Systems Overview of Git
- II. The Local Repository*
 - A. Installation Configuration
 - B. Activity: Update configuration
 - C. Initialization
 - D. Activity: Initialize the Local Repository
- III. First Content*
 - A. GitFlow
 - B. Git Concepts Git Mechanics
 - C. Activity: Add First Files to Repository
 - D. Details About the Commit
- IV. Branching and Merging*
 - A. Basics of Branching Activity: Use Branches Merging Branches
 - B. Activity: Fast Forward Merge With Master Activity: ORT Merge
- V. The Remote Repository*
 - A. Git Remote Repositories Introducing GitHub Activity: Login to GitHub Connecting to GitHub
 - B. Activity: Add Content to GitHub