

APPENDIX A: SERVICES

GitHub Training

Work faster, and more effectively, with GitHub tools and processes in this hands-on class, delivered online.

Participants will learn and apply common Git concepts, command-line operations and workflows, to successfully collaborate with others on software projects. We'll explore platform shortcuts, Git behavior customization, history manipulation, and tool integrations.

Accommodates twenty (20) participants.

Topics

Getting Started with Collaboration

- Introducing GitHub
- Key GitHub Features
- The GitHub Ecosystem
- Exploring a Repository
- Using Issues

Understanding the GitHub Flow

- Overview of the GitHub Flow
- Creating and using branches on GitHub

Working Locally

- Cloning a Repository
- Understanding the Distributed nature of Git
- Why we clone
- Basic Command Line Interface (CLI) Configuration
- Understanding Git Configuration Levels

Creating and Committing Local Files

- Creating a local file
- Understanding the Two Stage Commit
- Pushing your changes to GitHub
- Creating a Pull Request
- Using GitHub flavored markdown
- Special keywords for cross-linking issues and pull requests
- Commenting on pull requests and creating comments on specific lines of code

- Editing Pull Request Files
- Merging Pull Requests
- Social conventions for merging
- What happens when we merge?

Viewing Local Diffs and History

- Viewing local diffs
- Viewing project history

Creating Shortcuts

- Creating aliases
- Setting config to pruning remote tracking branches

The Workflow End-to-End

- Forking a repository
- Cloning the repository
- Creating local branches
- Creating and using tags and releases
- Workflow review for a simple file change
- Cleaning up local and remote tracking branches

Fixing Common Issues with Git

- Handling merge conflicts
- Reverting commits
- Creating atomic commits
- Staging hunks of changes
- Moving and renaming files with Git