# GitHub for Developers

### 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?

### Common Local Scenarios

* Understanding the nature of the working tree
* Understanding local merge types

### 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
* Workflow review for a simple file change
* Cleaning up local and remote tracking branches

### Fixing Common Issues with Git

* Handling merge conflicts locally
* Handling merge conflicts from the remote
* Reverting commits
* Creating atomic commits
* Staging hunks of changes
* Moving and renaming files with Git

### Creating a Repository Locally

* Creating a Repository on the Command Line

### Rewriting History

* How Git stores data (and why you should care)
* Amending your last commit
* Understanding Git reset
* Using the reflog
* Cherry-picking a single commit
* Using rebase and rebase interactive

### Workflow Application

* Using what you have learned in your day-to-day work
* Discussing workflows and best practices