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### Overview

This 1-day class provides an overview of GitHub the web-based version control repository hosting service. The students will learn and use hands-on labs to experience what GitHub is, and how it is used. They will create, edit and share files, create and share projects, learn to use and create pull-requests and branches. Students will create their own GitHub repository to control who has access to their projects. They can then use their repository after class has ended, for practice.

### Course Outline

#### Module 1 – Introduction to GitHub

Key concepts of GitHub

#### Module 2 – Viewing

Views and Graphs in GitHub  
Monitoring GitHub

#### Module 3 – Editing

How to contribute via Forking  
Adding Files  
Creating Pull-Requests  
Working with Folders (rename, moving)

#### Module 4 – Collaboration

Committing to a Branch  
Collaborating on Pull-Requests:  
--Issues  
--Commenting  
--Testing and Reviewing  
--Best Practices

#### Module 5 – Creating and Configuring

Creating a Repository  
Adding Collaborators  
Configuring a Repository  
Integration with other Systems  
Working with Organizations

#### Module 6 – Downloading

Cloning Repositories  
GitHub for Macintosh  
GitHub for Windows  
Configuring Command-Line Tools

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### XGHINT ONLINE

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