COMP90041

Programming and Software Development

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Lab 3

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Outline

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Git & GitHub

❖ Git is a distributed version-control system for tracking changes in source code during software development
❖ GitHub allows developers use version control (Git) online
❖ GitHub allows us to have an online space (called a *repository*) that stores our source code

Tool Options

❖Firstly, download Git: https://git-scm.com/downloads

❖Graphical User Interface (GUI) Tool
  ❖GitHub Desktop (https://desktop.github.com)

❖Command Line Interface (CLI) Tool
  ❖Git Bash (downloaded with Git)

Git Bash

❖git status
  ❖Lists which files are staged, un-staged, and un-tracked
❖git add <directory or file>
  ❖Stage all changes in <directory or file> for the next commit
❖git commit –m "<message>"
  ❖Commit the staged changes, with a message
❖git push <remote> <branch>
  ❖Uploads changes in <branch> to <remote>
  ❖Unspecified <remote> and <branch> will work fine too

Git Resources

❖ Git tutorial
  ❖ https://atlassian.com/git/tutorials/what-is-git
❖ Git cheat-sheet of commands
  ❖ https://atlassian.com/git/tutorials/atlassian-git-cheatsheet
❖ Git official documentation
  ❖ https://git-scm.com/doc

Exercises