

Assignment 1: Tools

<Name of Business Manager>

September 8, 2013

The Team

Ryan Alcoran, Joe Lee, Shivalik Narad, Nam Phan, Swapna Vemparala, Amber Wong

Team Q 06

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- Lee, Joe {Project Manager, Business Manager}

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- Phan, Nam {Development Manager, Test Manager}

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- Wong, Amber {unspecified}

Software Configuration Management (SCM)

Tracking and controlling changes in software

Language: Java

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Tracking and controlling changes in software

Language: Java Tools

- Software Configuration Management: **EGit**
- Software Hosting Facility: **Github**
- Standalone Bug Tracker: **Codebeamer**
- Editor and IDE: **Eclipse**
- Project Management: **OpenProject**

Software Configuration Management (SCM)

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EGit

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Software Configuration Management (SCM)

Tracking and controlling changes in software

EGit

"The EGit project is implementing Eclipse tooling on top of a Java implementation of Git."

- free, open source, designed for branching and merging
- decentralized model (everyone has own copy of repository, which can later be merged)
- Can be integrated into Eclipse, using a plug-in.

Software Configuration Management (SCM)

Tracking and controlling changes in software

EGit compare to Others

Software Configuration Management (SCM)

Tracking and controlling changes in software

EGit compare to Others

Subversion

EGit compare to Others

Subversion

- free, open source, actively developed
- easier to use than Git (more tools available for non-technical users, error messages are easier to understand)
- centralized model (everyone has a working copy and changes are submitted to central repository)

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LibreSource

- free, open source, maintained and new features under development

Software Configuration Management (SCM)

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EGit Installation

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EGit Installation

Adding a new software site

There are several different ways to add a software site to the list of sites that are used when browsing available software and checking for updates. You must know the Web Site location (URL) of the site that you want to add. To add the site, use one of the following procedures:

- Add a new site using the [Install/Update > Available Software Sites](#) preference page.
 1. Click the **Add...** button.
 2. Type a name into the **Name** text box.
 3. If the software site is located on the web, type the Web Site location (URL) of the site into the **Location** text box. You may also paste or drag and drop a URL from a web browser into this text box.
 4. If the software site is in your local file system (including a CD), click **Local...** to specify the directory location of the site.
 5. If the software site is in your local file system but is packaged as a jar or zip file, click **Archive...** to specify the name of the file.
- Drag and drop the site URL from a browser into one of the following locations:
 1. The **Work With** combo box or the software list on the first page of the **Install New Software** wizard.
 2. The **Available Software Sites** preference page.
 3. The **Location** text field in the **Add Site...** dialog.
- On some platforms, you may be able to drag and drop a local directory or archive file from the file system into the same locations.

Related tasks

[Installing new software](#)

[Working with the Available Software sites](#)

Figure : Instruction to install Egit into Eclipse

Software Configuration Management (SCM)

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EGit Installation

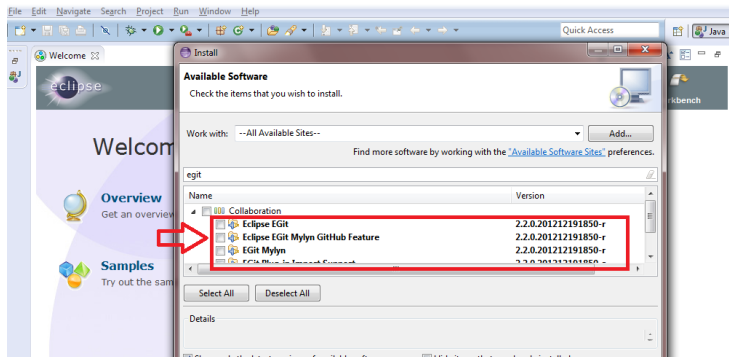


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GitHub

GitHub

”GitHub is a web-based hosting service for software development projects that use the Git revision control system”

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- Ad-free, not run on all free software.

Github compare to Others

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Google Code

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Tigris

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Tigris

- Restricted to collaborative software development tools.
- Not ad-free

GitHub Installation

GitHub Installation

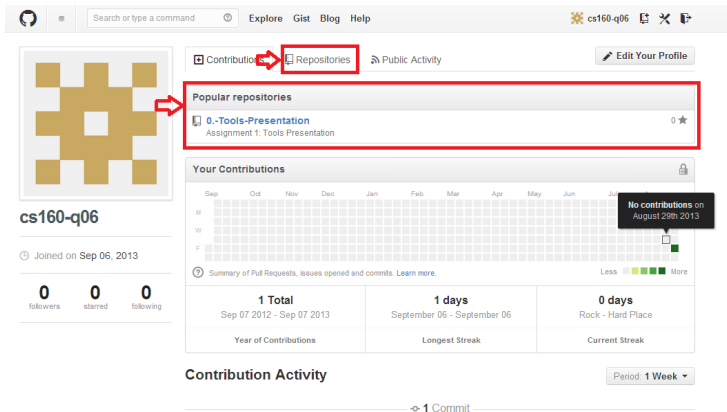


Figure : Github web UI and sample Repository

GitHub Installation

cs160-q06 / 0.-Tools-Presentation

Assignment 1: Tools Presentation — Edit

5 commits 1 branch 0 releases 1 contributor

branch: master 0.-Tools-Presentation /

Commit	Message	Time
0-tools.pdf	Added NetBeans to IDE section.	12 hours ago
0-tools.tex	Added NetBeans to IDE section.	12 hours ago
README.md	Added texlive installation instructions for RPM-based GNU/Linux systems.	11 hours ago

README.md

0.-Tools-Presentation

Assignment 1: Tools Presentation

The LaTeX file uses the beamer documentclass, which is for creating presentations. The PDF file is generated from the LaTeX source file using pdflatex.

SSH clone URL: git@github.com:cs160-q06:0.-Tools-Presentation

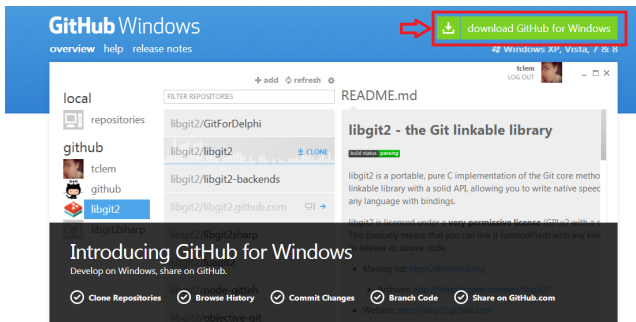
You can clone with HTTPS, SSH, Subversion, and other methods.

Clone in Desktop

Download ZIP

Figure : Inside a repository and how to clone it

GitHub Installation



The easiest way to use Git on Windows. **Period.**

Figure : Github software for Windows

GitHub Installation

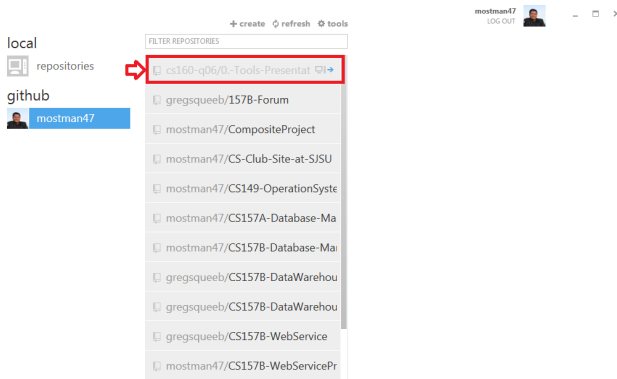


Figure : Github software UI

GitHub Installation

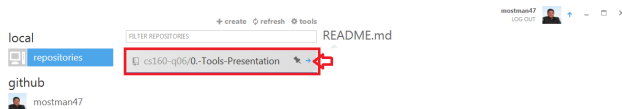


Figure : Manage and Commit Repo

GitHub Installation

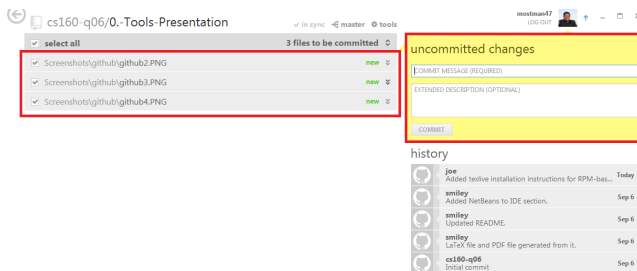


Figure : Manage and Commit Repo

GitHub Installation

The screenshot displays the GitHub web interface for a repository named 'cs160-q06/0.-Tools-Presentation'. The page shows a commit by user 'nam' with the message 'screen shots - Github - 1'. The commit details section on the left lists four files: 'Screenshots/github/github2.PNG', 'Screenshots/github/github3.PNG', 'Screenshots/github/github4.PNG', and 'Screenshots/github/github5.PNG'. Each file entry indicates 'Binary files differ' and is marked as 'new'. The commit history section on the right shows a list of recent commits, including the current one by 'nam' and previous commits by 'joe', 'smiley', and 'cs160-q06'.

cs160-q06/0.-Tools-Presentation

in sync master tools

nam
23f7d4f13717605338a89566978809783f22694d
revert commit roll back this commit

no uncommitted changes

history

screen shots - Github - 1		github
Screenshots/github/github2.PNG	new	Binary files differ
Screenshots/github/github3.PNG	new	Binary files differ
Screenshots/github/github4.PNG	new	Binary files differ
Screenshots/github/github5.PNG	new	Binary files differ

history		
nam	screen shots - Github - 1	Today
joe	Added tentative installation instructions for RPM-bas...	Today
smiley	Added NetBeans to IDE section.	Sep 6
smiley	Updated README.	Sep 6
smiley	LaTeX file and PDF file generated from it.	Sep 6
cs160-q06	Initial commit	Sep 6

Figure : Result and History of Committing

CodeBeamer

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CodeBeamer

"CodeBeamer is a web based Collaborative Application Lifecycle Management and Requirements management tool for distributed software development"

- Proprietary, free version
- Backend: MySQL, Oracle, Apache Derby or Postgres
- CodeBeamer is the award winning Collaborative Requirements Management (RM) and Application Lifecycle Management (ALM) solution for distributed software development

CodeBeamer compare to Others

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Bugzilla

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Google Code Hosting

- Proprietary, hosted; available for open source projects (by Google Code)
- BigTable backend (also proprietary)

Editors and IDEs

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- License: Free, open source project management application that supports project timelines, issue tracking, wiki, document management, time and cost reporting, code management, Scrum, and more.
- Earned Value costing
- Gantt chart
- Resource Breakdown Structure (RBS) chart

OpenProj vs. Microsoft Project

OpenProj vs. Microsoft Project

Similar

- user interface and approach to construction of project plan
- create workbench breakdown structure
- assign resources

OpenProj vs. Microsoft Project

Similar

- user interface and approach to construction of project plan
- create workbench breakdown structure
- assign resources

Different

- OpenProj can link upwards with methods (inserting tasks is more difficult than with Microsoft Project)
- OpenProj can just create resources (have to do so in the resource sheet)
- OpenProj lacks a more detailed view and project reports that is available with Microsoft Project

References

References