

Overview:

In this project we are going to create a basic source manager and use the visualization tools available to keep track of the changes

Lab Activities:

1. Create a project
2. Connect to the project
3. Visualize the files
4. Visualize the changes

Tools

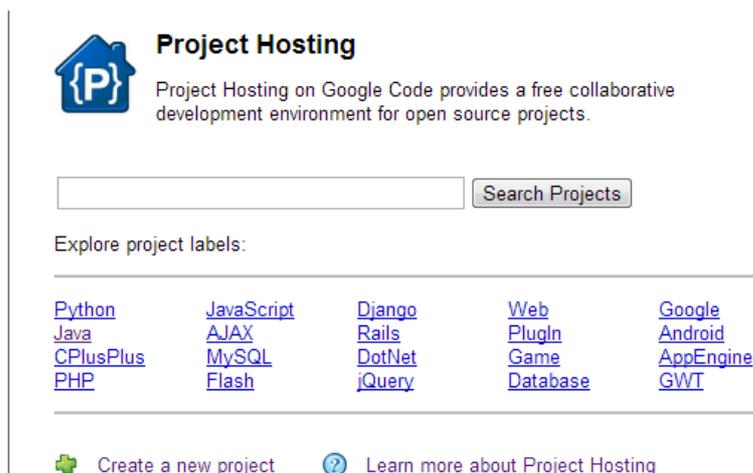
- Google Code Project Hosting - <http://code.google.com/> for developers
- SVN Time-Lapse View - <http://code.google.com/p/svn-time-lapse-view/>

Project Management Tools

- Mantis Bug tracker - <http://www.mantisbt.org/>
- dotProject - <http://www.dotproject.net/>

Activity 1: Create a project (Google Code)

1. Open the Google Code website <http://code.google.com/> and login with your Gmail account
2. Go to the Project hosting part of the webpage and “create an new project”



Project Hosting

Project Hosting on Google Code provides a free collaborative development environment for open source projects.

Explore project labels:

Python	JavaScript	Django	Web	Google
Java	AJAX	Rails	Plugin	Android
CPlusPlus	MySQL	DotNet	Game	AppEngine
PHP	Flash	jQuery	Database	GWT

 [Create a new project](#)  [Learn more about Project Hosting](#)

3. Complete the information required. And choose a type of version manager. In this case we are going to use Subversion
4. Understand the tabs in you project management website

hello-seng371-world
hello-seng371-world example

Project Home Downloads Wiki Issues Source Administer

Summary People

Tip: Project owners, s

Project Information hello-seng371-world description

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[Project feeds](#)

Code license
[GNU GPL v2](#)

Members
[locastan](#)

Your role
[Owner](#)

- a. Source > Browse, Changes and Checkout

hello-seng371-world
hello-seng371-world example

Project Home Downloads Wiki Issues Source Administer

Checkout Browse Changes Search Trunk Request code review

Source path: svn/

Directories	Filename
<ul style="list-style-type: none"> ▼ svn <ul style="list-style-type: none"> branches tags trunk wiki 	No files in the selected directory. Select a subdirectory.

Your project is using approximately

Activity 2: Connect to a project

1. Decompress the temp.zip file you downloaded with this project. The project is already connected to my Google code project in <http://code.google.com/p/hello-seng371-world/> the URL to connect in found in the *Source > Checkout* tabs.
2. Use Tortoise to commit the changes in the temp file (If you don't have installed Tortoise SVN, go to the <http://tortoisesvn.net/> and download the version suitable for you. SENG labs have it already installed)
3. In the temp folder, click right and "SNV Update" to get the latest files
4. Modify any file and then click right "SVN commit" to upload the changes. Use user: locastan@gmail.com and password: **eG2Gn6XF9mk4**, that information is given by my project source manager. Remember we are all using the same user and password, so update before commit in order to avoid conflicts

EXTENDED

If you created you own project and have problems using a SVN Client, just go to *Source > Browse* and upload a file in your hosting. Make as many changes and upload it again.

Activity 3: Visualize de files

1. Using Google Project Hosting

The screenshot shows the Google Project Hosting interface for a project named "hello-seng371-world". The page has a navigation bar with tabs for "Project Home", "Downloads", "Wiki", "Issues", "Source", and "Administer". Below the navigation bar, there are links for "Checkout", "Browse", and "Changes", along with a "Search Trunk" button and a "Request code review" link. The main content area displays the source code view for the "svn/" directory. A table lists the files in the directory:

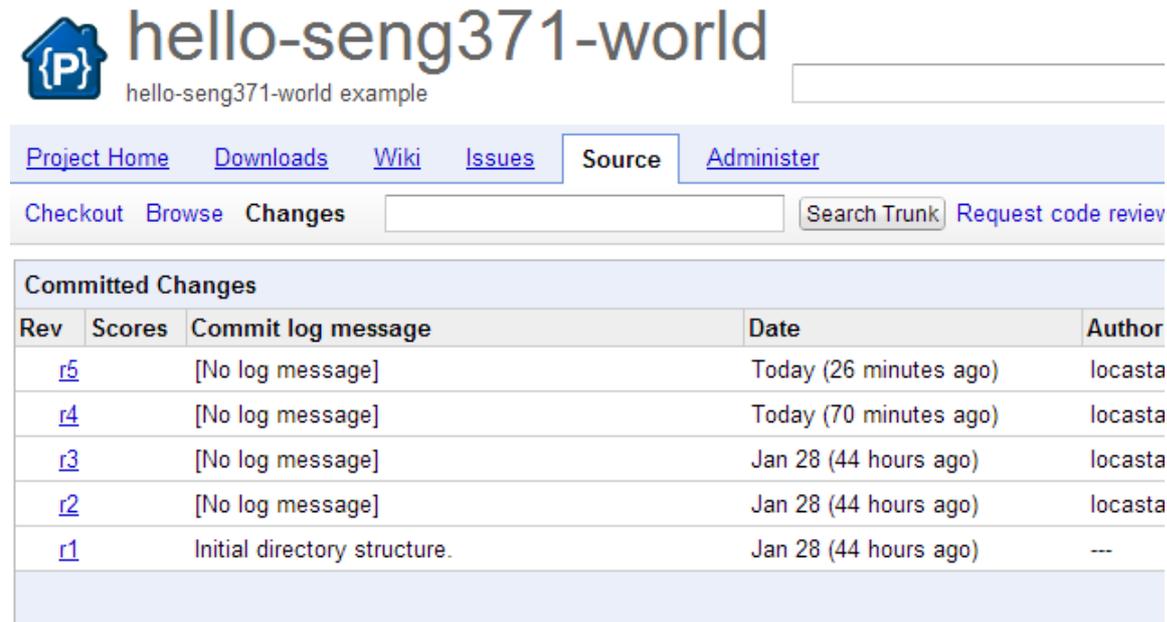
Directories	Filename	Size	Rev	Date
▼ svn	firstFile.txt	677 bytes	r3	Jan 28 (44 hours ag
branches	secondFile.txt	41 bytes	r5	Today (23 minutes :
tags				
trunk				
wiki				

At the bottom of the file list, there is a link that says "Create or upload a new file".

Activity 4: Visualize the changes

Using Google Project Hosting

Go go *Source* > *Changes* to visualize the revisions (commits) of the project



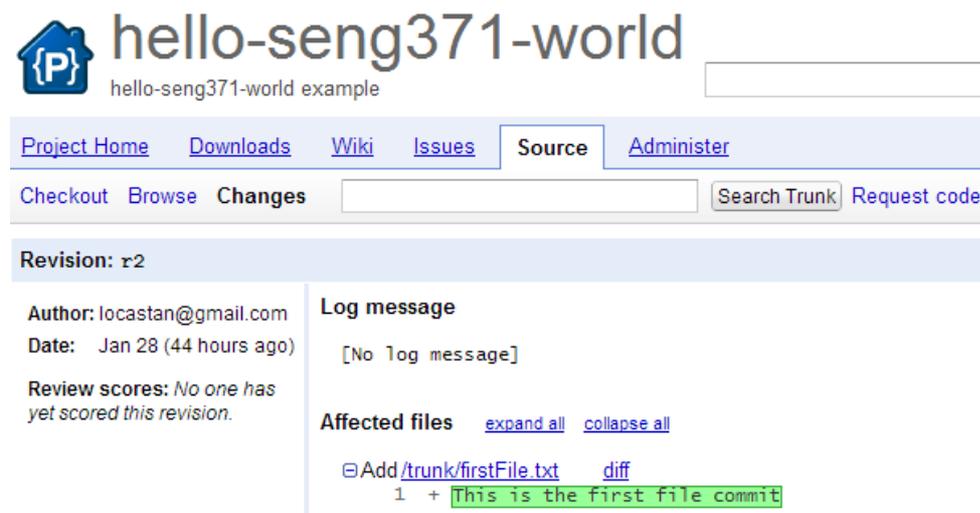
hello-seng371-world example

Project Home Downloads Wiki Issues **Source** Administer

Checkout Browse **Changes** Search Trunk Request code review

Rev	Scores	Commit log message	Date	Author
r5		[No log message]	Today (26 minutes ago)	locasta
r4		[No log message]	Today (70 minutes ago)	locasta
r3		[No log message]	Jan 28 (44 hours ago)	locasta
r2		[No log message]	Jan 28 (44 hours ago)	locasta
r1		Initial directory structure.	Jan 28 (44 hours ago)	---

Open a revision to see the changes in the file



hello-seng371-world example

Project Home Downloads Wiki Issues **Source** Administer

Checkout Browse **Changes** Search Trunk Request code

Revision: r2

Author: locastan@gmail.com
Date: Jan 28 (44 hours ago)
Review scores: No one has yet scored this revision.

Log message
[No log message]

Affected files [expand all](#) [collapse all](#)

⊖ Add [/trunk/firstFile.txt](#) [diff](#)
1 + `This is the first file commit`

In this case we are opening revision No. 2 and the only file changed was *firstFile.txt* we can visualize that just one line changed.

EXTENDED

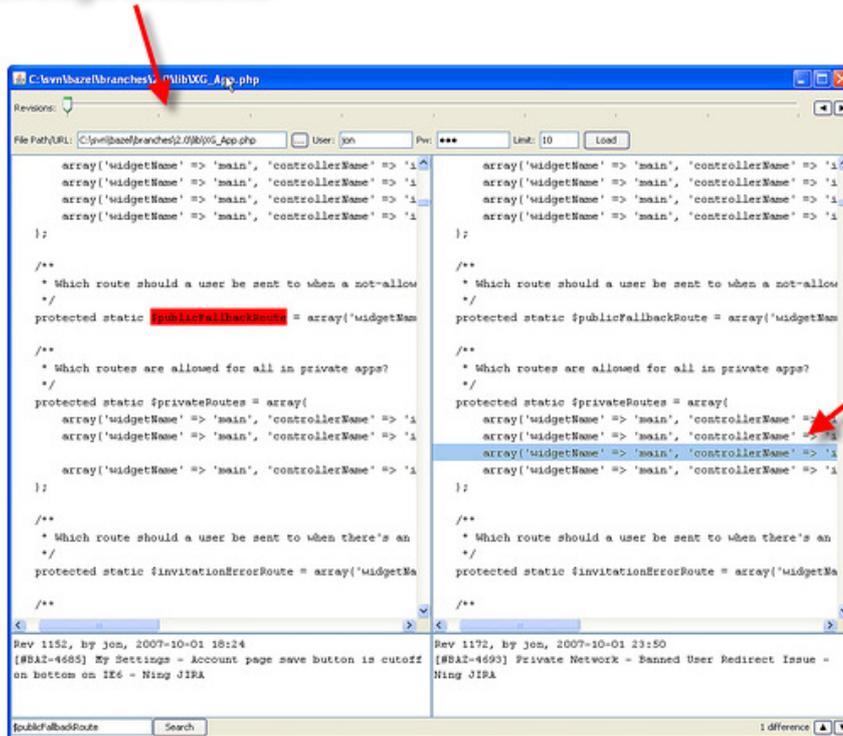
Browse other projects hosted in google Code to find changes

Using SVN time-lapse view

Download the project from <http://code.google.com/p/svn-time-lapse-view/> is an executable Java program.

Check the information about the program in the website of the project to understand the parts of the GUI.

Slider for scrolling through revisions

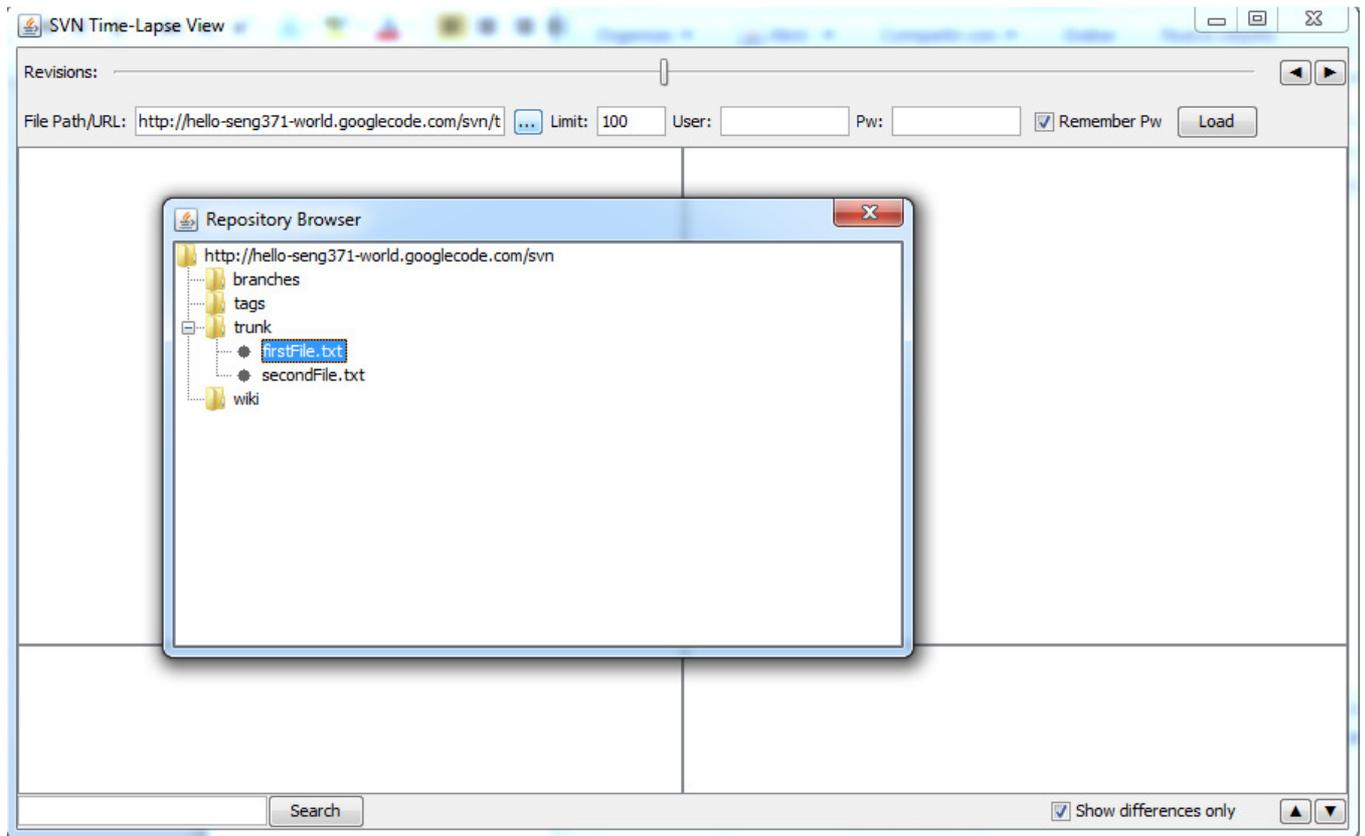


Diffs highlighted in blue

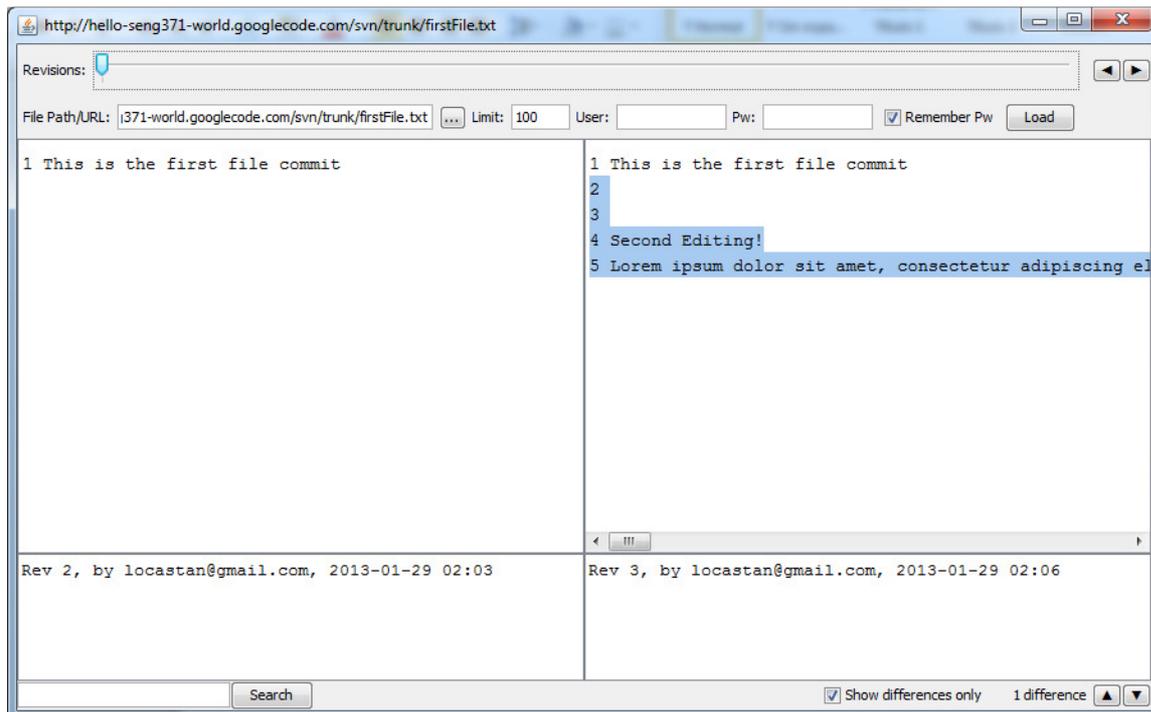
Search

(Image taken from the project website)

Use the *svn time-lapse view* to browse the history of the files in the SENG371 project. Connect using the <https://hello-seng371-world.googlecode.com/svn/trunk/> URL.



Browse the files and time-lapse the revisions to see the changes.

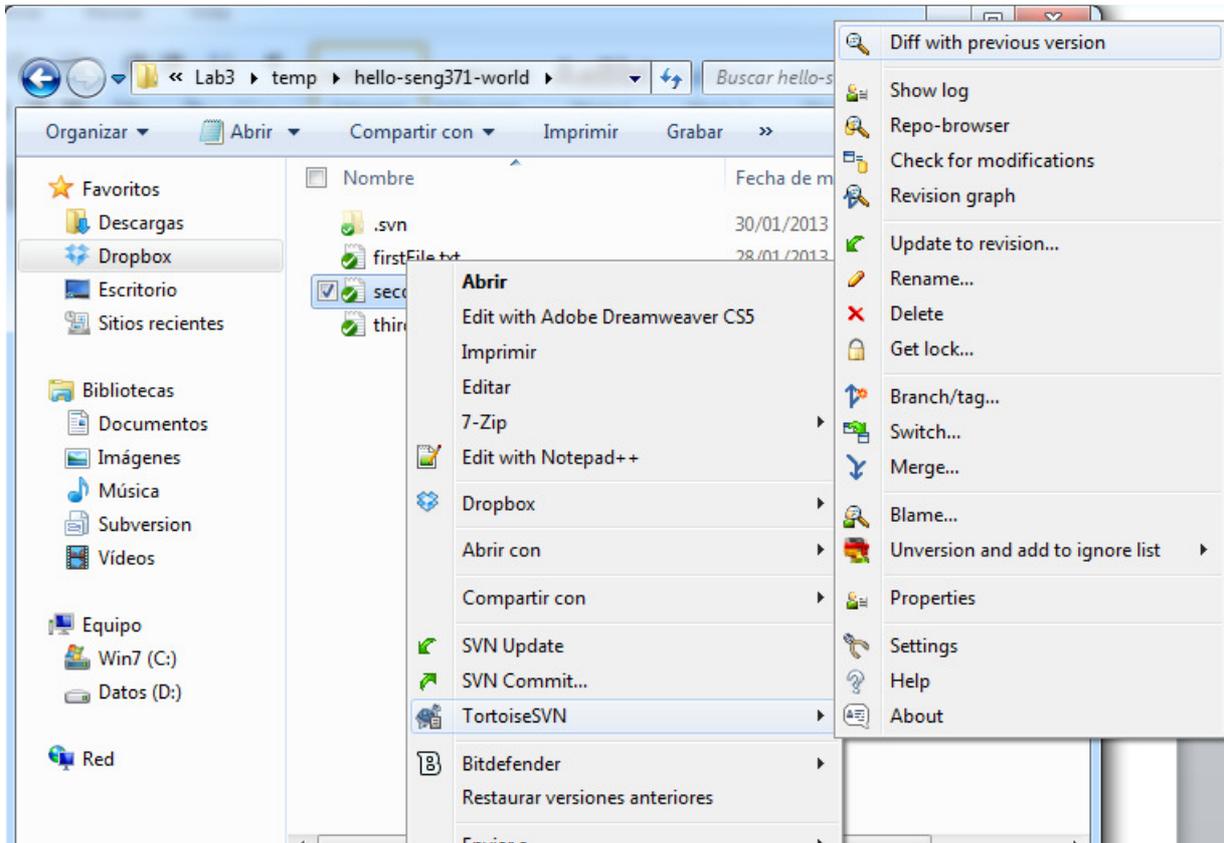


EXTENDED

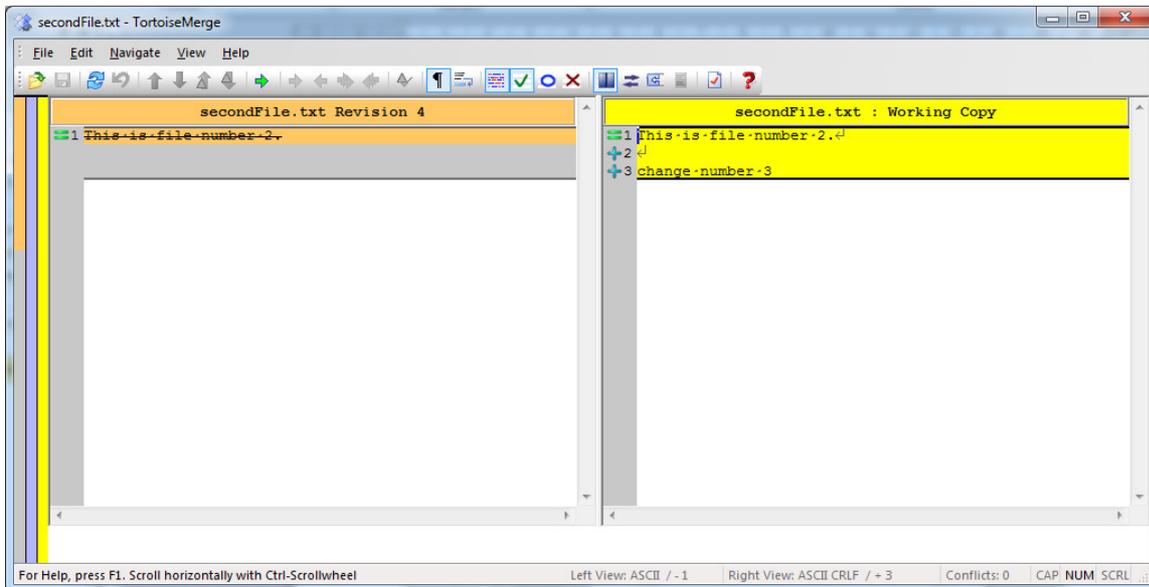
1. Connect to any project in Google Code and browse the changes.

Using TortoiseSVN

Go to the file you want to visualize and right click *TortoiseSVN>Diff with previous version*



Then, the application will display the file with current version versus the previous revision in the source manager



EXTENDED

1. Connect to any project in Google Code and browse the changes.