SENG 371 Software Evolution

Lab #3

Lab Themes Outline

1. **Software Visualization Tools**
   A. Software Visualization Graphs
   B. UML Visualization tools
   C. **Source Management Visualization tools**
2. Source Management Tools
3. Corporative Solutions

Part 3:
Source Management Visualization tools

Software Project Management

Software Evolution

- Planning, leading and tracking software projects
- Important issues:
  - Time tracking
  - Task distribution
  - Integration processes
  - Reporting
  - Collaboration

Software Project Management tools

Matis Bug Tracker
http://www.mantisbt.org/

- Web-based
- Open Source - GPL License
- Written in PHP and works with MySQL, MS-SQL PostgreSQL
- OS Platforms: Windows, Mac, Linux
  - MantisTouch: iPhone, Android ,Windows Phone

Overview of the tool http://www.mantisbt.org/bugs/main_page.php

Software Project Management tools

dotProject
http://www.dotproject.net/

- Web-based
- Open Source
- Supported by volunteers
- Any project not only software

Demo of the tool http://www.dotproject.net/demo/

Software Project Management tools

MS Project
http://www.microsoft.com/project/

- Licensed
- Desktop application
- Microsoft project server for collaboration

Source Management Visualization tools

Google Code Project Hosting
http://code.google.com

- Free project hosting
- Open source projects
- Version Visualization

(Lab activity)
http://code.google.com/p/support/wiki/GettingStarted

Source Management Visualization tools

SVN Time-Lapse View
http://code.google.com/p/svn-time-lapse-view/

- Java application – executable
- Reviews the differences between commits of a file in a repository
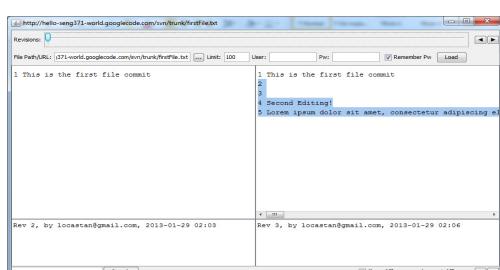
Source Management Visualization tools

TortoiseSVN
http://tortoisesvn.net/

- *Apache Subversion* client
- Available in many languages
- Freeware
- MS Windows shell
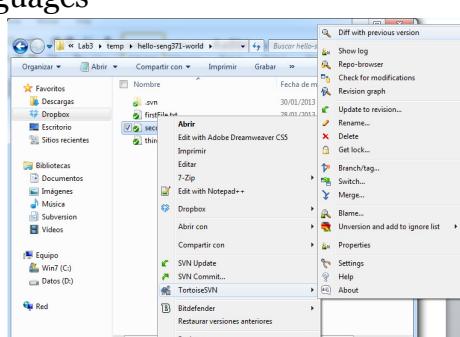
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