

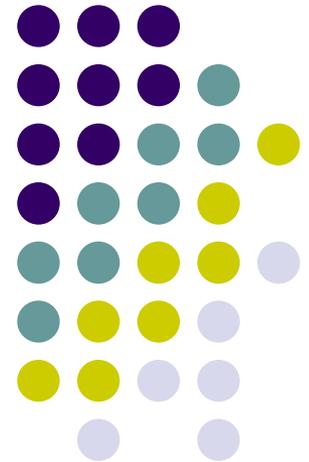
LaTeX on Windows

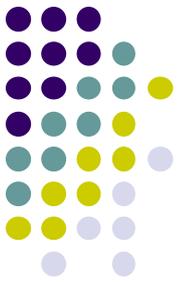
For making papers in academia

V1.0

Dean Truong, VCL

University of California, Davis





Outline

- **Introduction**
- Preliminary Tools
- Eclipse IDE
- TeXlipse
- Thesis Template
- Version Control and Backup with *Subclipse+Subversion+Apache*
- Miscellaneous



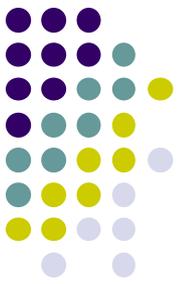
Introduction

- This presentation is a simple “getting started” type of tutorial
- It will not teach you the details of using each of the application/tools presented here
 - It will not teach you LaTeX or Subversion
- Further research on your part is required to do anything more than is shown here
- Learn to explore things on your own (in other words: **USE GOOGLE!**)



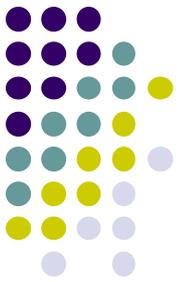
Basic Requirements

- Windows XP Service Pack 2 or higher
- \$0 USD
 - (Excluding the cost of Windows + compatible PC)
- If you want a backup server you'll need a PC that is connected to the internet with a static IP address...preferably with a static DNS
 - Should be \$0 if you work at a company or school



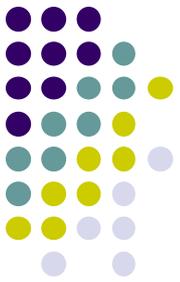
List of Applications

- PDF Viewer: *Sumatra PDF*
- LaTeX Compiler: *MiKTeX*
- LaTeX Editor: *Eclipse IDE + TeXlipse* plugin
- Version Control: *Subversion + Subclipse* plugin
- Backup Server: *Apache HTTP Server*



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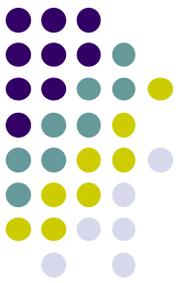


Preliminary Tools

- Download: *Sumatra PDF* and *MiKTeX*
 - <http://blog.kowalczyk.info/software/sumatrapdf/download.html>
 - <http://miktex.org/>

A screenshot of the MiKTeX website homepage. The browser address bar shows <http://miktex.org/>. The page features the MiKTeX logo in a stylized blue font with the tagline "...typeset". Below the logo, there is a navigation menu on the left with items like Home, About, Download, and Purchase. The "Download" menu item is highlighted, and a red arrow points from the "MiKTeX 2.8" link in the sub-menu to the right. The main content area includes a welcome message and a "Recent News" section with several links to news items.

A screenshot of the Sumatra PDF download page. The browser address bar shows <http://blog.kowalczyk.info/software/sumatrapdf/download.html>. The page has a yellow header with the text "Sumatra PDF A PDF Viewer for Windows". Below the header is a navigation bar with links for Home, News, Manual, Download, Contribute, and Translations. The "Download" link is highlighted. The main content area features a "Recommended Download" section with a blue box icon and a list of benefits. A green "Download" button is visible. Below this, the "Download" section lists the installer as [SumatraPDF-1.0.1-install.exe](#) and the zip file as [SumatraPDF-1.0.1.zip](#). A pink arrow points from the "SumatraPDF-1.0.1-install.exe" link to the right. The footer of the page mentions that users can also download the sources and contribute their code.



Preliminary Tools (cont.)

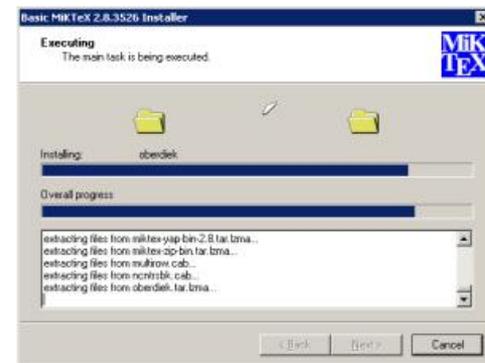
- *Sumatra PDF* installation is straightforward
- Get the complete *MiKTeX* installation

Installing a basic MiKTeX system

To install a basic MiKTeX system, download and run the "Basic MiKTeX" installer. MiKTeX has the ability to install missing packages automatically, i.e., this installer is suitable for computers connected to the Internet.

"Basic MiKTeX 2.8" Installer Size: 110.63 MB	Download from: tezcatl.fciencias.unam.mx (Mexico) ▼
---	---

When you have installed MiKTeX 2.8, it is recommended that you run the update wizard in order to get the latest updates.

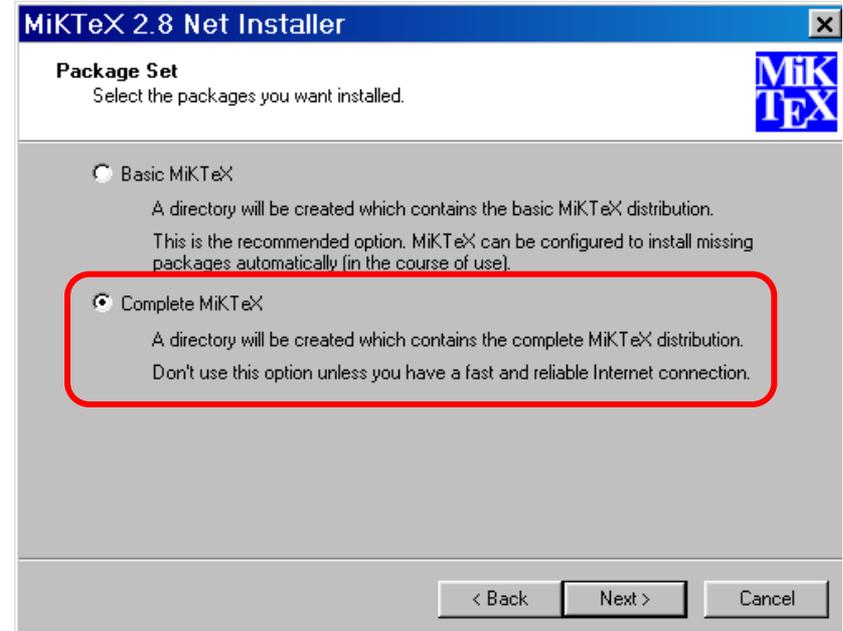
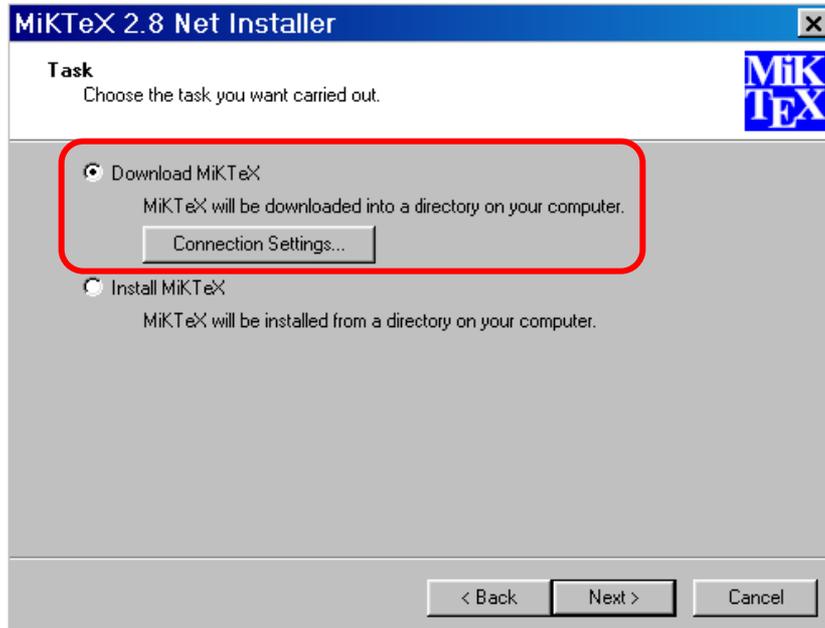
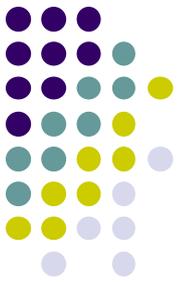


Installing the complete MiKTeX system

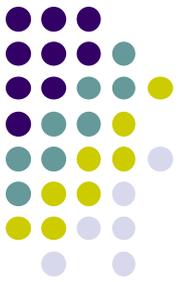
You use the MiKTeX Net Installer to download all MiKTeX packages and install a complete MiKTeX system. See the section [Installing MiKTeX](#) in the MiKTeX manual, for more information.

MiKTeX 2.8 Net Installer Size: 2.94 MB	Download
---	----------

Preliminary Tools (cont.)

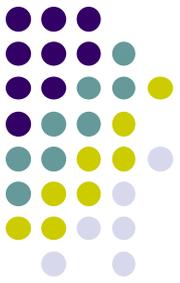


- Finish the *MiKTeX* installation...
 - It may take a long time for slow internet connections



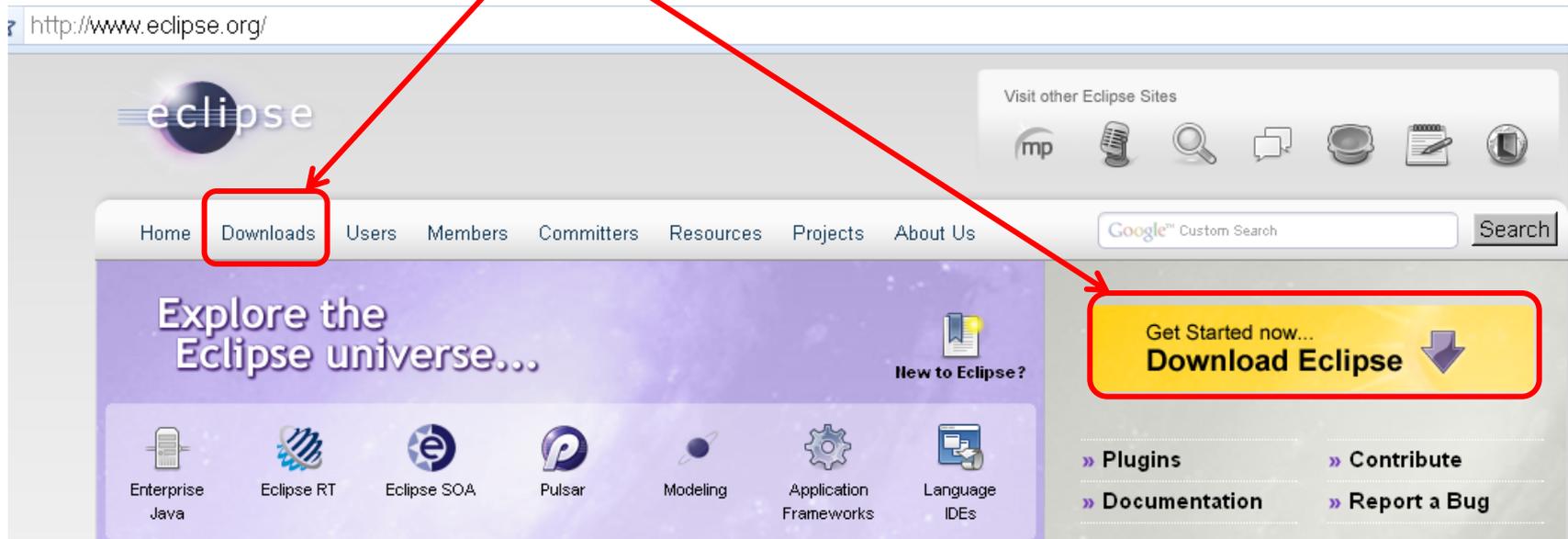
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Eclipse IDE

- Download: <http://www.eclipse.org/>
- Click on “Downloads”





Eclipse IDE (cont.)

The screenshot shows the Eclipse website's download page. The URL is <http://www.eclipse.org/downloads/>. The navigation menu includes Home, Downloads, Users, Members, Committers, Resources, Projects, and About. The main heading is "Eclipse Downloads". Below it, there are three tabs: "Eclipse Packages", "Projects", and "Development Builds". The "Projects" tab is highlighted with a red box and a red arrow. Below the tabs, there is a "filter by tag:" section with several tags: "all", "eclipse", "embedded", "equinox", "frameworks", "modeling", and "languages". The "all" tag is highlighted with a pink box and a pink arrow. The page content is organized into sections: "Business Intelligence and Reporting Tools (BIRT)", "Data Tools Platform", "Device Software Development Platform", and "Eclipse Project". Each section lists various sub-projects with a globe icon. The "Eclipse Platform" link at the bottom of the "Eclipse Project" section is highlighted with an orange box and an orange arrow.

- Click on “Projects”
- Click on *filter by tag*: “all”

- Click on *Eclipse Project* “Eclipse Platform”



Eclipse IDE (cont.)

← → ↻ ☆ http://download.eclipse.org/eclipse/downloads/

eclipse project downloads

latest downloads from the eclipse project

Latest Downloads

On this page you can find the latest [builds](#) produced by the [Eclipse Project](#). To get started with the program downloading the drops, contact the [webmaster](#). If you have problems installing or getting the workbench the terms and conditions of the [Eclipse Foundation Software User Agreement](#) unless otherwise specified.

See [other eclipse.org project downloads](#).

NEW Help out with Eclipse translations - check out the [Babel project](#).

SDK Torrents

See also the [build schedule](#), read information about different [kinds of builds](#), access [archived builds](#) (final)

Build Type	Build Name	Build Status
Latest Release	3.5.2	
3.6 and 3.5.x Stream Stable Build	3.6M7	
3.6 Stream Integration Build	I20100511-0800	
3.6 Stream Nightly Build	N20100511-2000	
3.5.2 Stream Build	M20100211-1343	
Language Pack		

Latest Releases

Build Name	Build Status	Build Date
3.5.2	Jv	Thu, 11 Feb 2010 -- 13:43 (-0500)
3.5.1	Jv	Thu, 17 Sep 2009 -- 08:00 (-0400)
3.5	Jv	Thu, 11 Jun 2009 -- 15:40 (-0400)

- Click on a version
- I picked the *Latest Release*...

Downloads All Platforms Windows Linux Solaris AIX Macintosh HP-UX

- Eclipse SDK
- JUnit Plugin Tests and Automated Testing Framework
- Example Plug-ins
- RCP Runtime Binary
- RCP SDK
- Delta Pack
- com.ibm.icu.base Binary and Source Plug-ins
- Platform Runtime Binary
- Platform SDK
- JDT Runtime Binary
- JDT SDK
- JDT Core Batch Compiler
- PDE Runtime Binary
- PDE SDK
- SWT binary and Source
- org.eclipse.releng.tools plug-in

Release Build: 3.5.2

February 12, 2010. These downloads are provided under the Eclipse Foundation License.

Eclipse 3.5.2 Readme

The page provides access to the various sections of this build along with and performance results are posted once they are available. You may use one of the tabs in the platform navigator above.

Download now: Eclipse SDK, Windows

You are currently running on **Windows**

Related Links

- View the **build notes** for the current build.
- View the **test results** for the current build.
- View the **performance results** for the current build.
- View the **map file entries** for the current build.



Eclipse IDE (cont.)

Downloads | All Platforms | Windows | Linux | Solaris | AIX | Macintosh | HP-UX

Release Build: 3.5.2

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Eclipse 3.5.2 Readme

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Download now: Eclipse SDK, Windows
You are currently running on **Windows**

Related Links

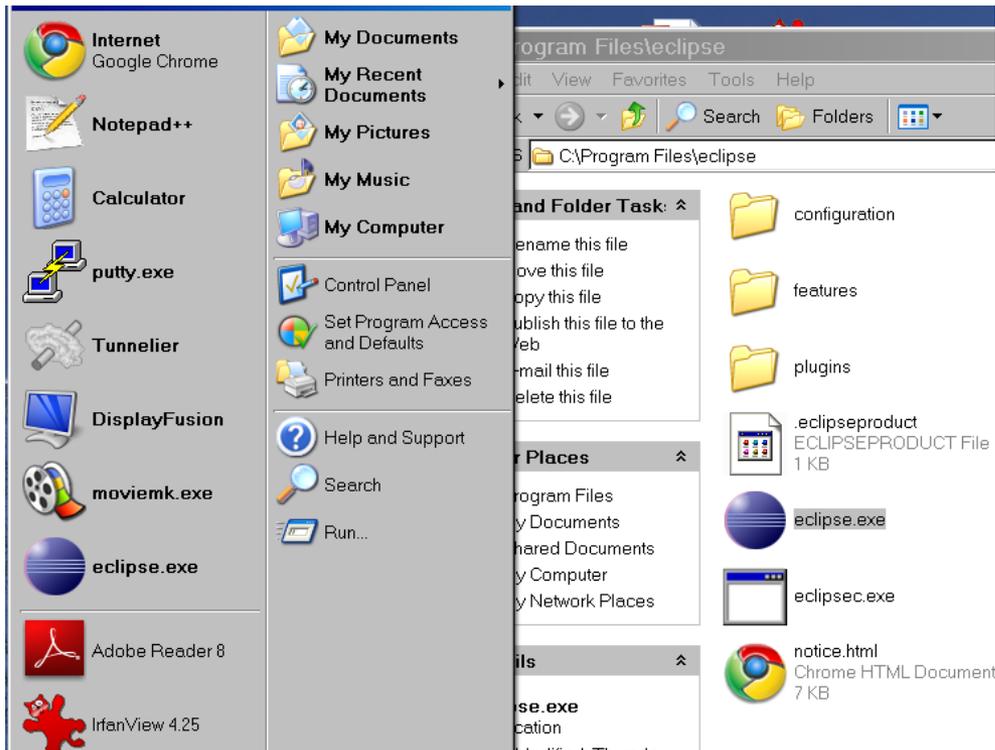
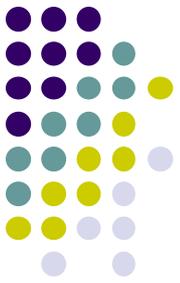
View the [build notes](#) for the current build.

<http://download.eclipse.org/eclipse/downloads/drops/R-3.5.2-201002111343/index.php#PlatformRuntime>

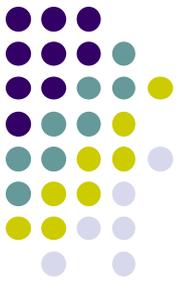
Status	Platform	Download	Size	File
✓	Windows (Supported Versions)	(http)	47 MB	eclipse-platform-3.5.2-win32.zip
✓	Windows (x86_64) (Supported Versions)	(http)	47 MB	eclipse-platform-3.5.2-win32-x86_64.zip
✓	Windows (x86/WPF) **early access** (Supported Versions)	(http)	46 MB	eclipse-platform-3.5.2-win32-wpf.zip
✓	Linux (x86/GTK 2) (Supported Versions)	(http)	47 MB	eclipse-platform-3.5.2-linux-gtk.tar.gz
✓	Linux (x86_64/GTK 2) (Supported Versions)	(http)	47 MB	eclipse-platform-3.5.2-linux-gtk-x86_64.tar.gz
✓	Linux (PPC/GTK 2) (Supported Versions)	(http)	47 MB	eclipse-platform-3.5.2-linux-gtk-ppc.tar.gz
✓	Solaris 10 (SPARC/GTK 2)	(http)	47 MB	eclipse-platform-3.5.2-solaris-gtk.zip
✓	Solaris 10 (x86/GTK 2)	(http)	47 MB	eclipse-platform-3.5.2-solaris-gtk-x86.zip
✓	HPUX (IA64_32/Motif)	(http)	47 MB	eclipse-platform-3.5.2-hpux-motif-ia64_32.zip
✓	AIX (PPC/Motif)	(http)	47 MB	eclipse-platform-3.5.2-aix-motif.zip
✓	Mac OSX (Mac/Cocoa) (Supported Versions)	(http)	47 MB	eclipse-platform-3.5.2-macosx-cocoa.tar.gz
✓	Mac OSX (Mac/Cocoa/x86_64)(Supported Versions)	(http)	46 MB	eclipse-platform-3.5.2-macosx-cocoa-x86_64.tar.gz
✓	Mac OSX (Mac/Carbon) (Supported Versions)	(http)	47 MB	eclipse-platform-3.5.2-macosx-carbon.tar.gz
✓	Platform Runtime Repo	(http)	124 MB	org.eclipse.platform-p2repo-3.5.2.zip

- Click on “Platform Runtime Binary”
- Download for the appropriate Windows version

Eclipse IDE (cont.)



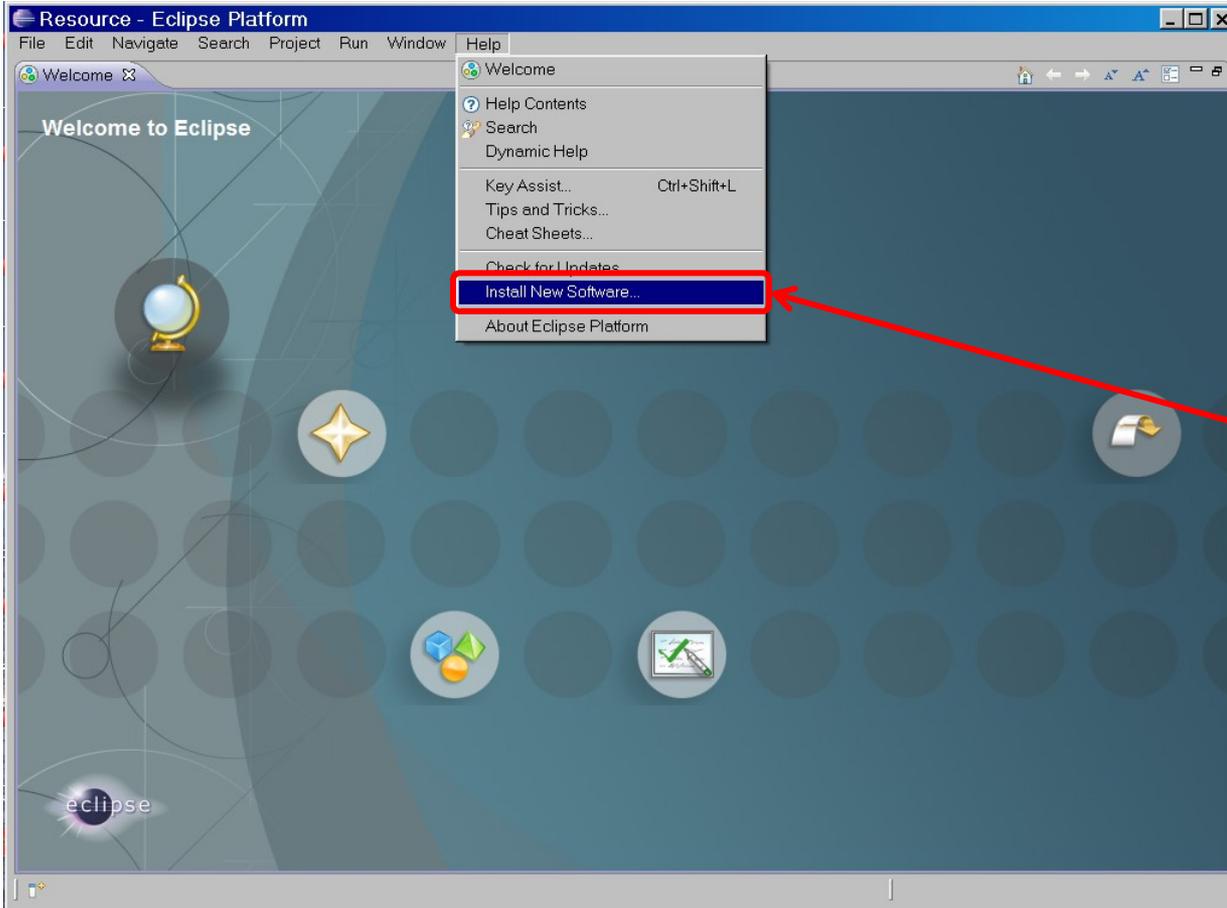
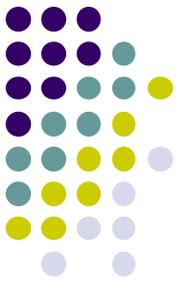
- After downloading the *.zip file...
 - Unzip the “eclipse” folder into **C:\Program Files**
 - Make a shortcut of *eclipse.exe* into the Desktop or Start Menu or ...



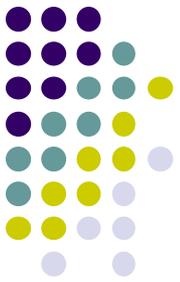
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TeXlipse Plugin



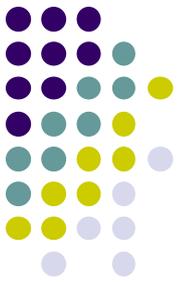
- Open *Eclipse* IDE
- Click on “Help” → “Install New Software...”



TeXlipse Plugin (cont.)

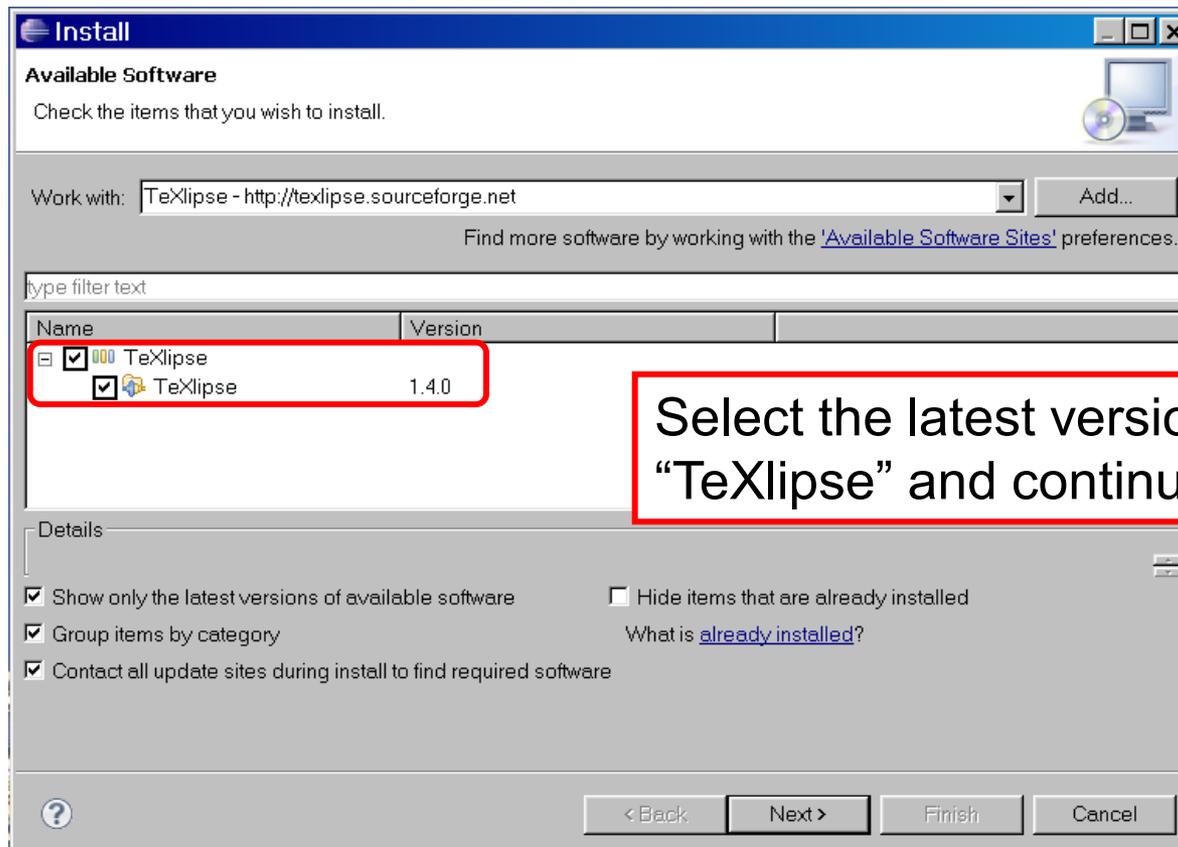
- Add Site: <http://texlipse.sourceforge.net>

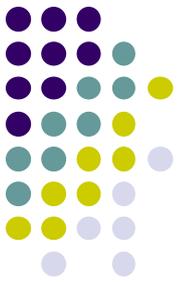
The screenshot shows the Eclipse 'Install' dialog box. The 'Available Software' tab is active, displaying a list of software sites. The 'Work with:' field contains 'TeXlipse - http://texlipse.sourceforge.net'. The 'Add...' button is highlighted with a red box. A red arrow points from the URL in the list item to this button. A pink arrow points from the 'Add...' button to the 'Add Site' dialog box, which is also highlighted with a pink box. The 'Add Site' dialog shows 'Name: TeXlipse Update Site' and 'Location: http://texlipse.sourceforge.net'. There is a 'Duplicate location' warning and 'OK' and 'Cancel' buttons.



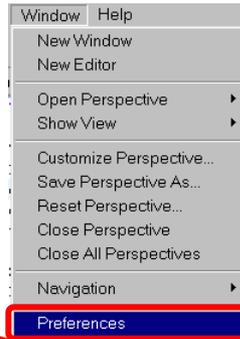
TeXlipse Plugin (cont.)

- Install *TeXlipse* (straightforward)

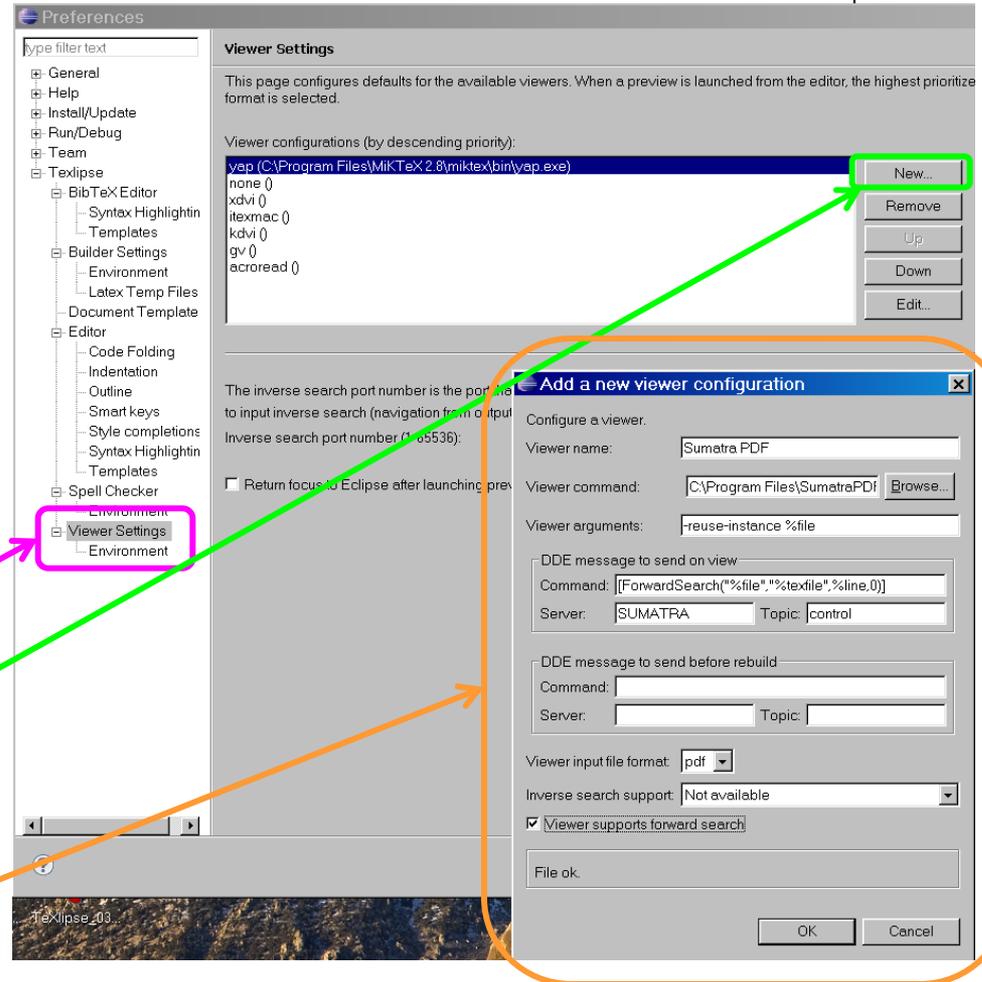




TeXlipse Plugin (cont.)



- Click on “Window” → “Preferences”
- Go to “Texlipse” → “Viewer Settings”
- Add new viewer configuration
- Fill out configuration as shown here





TeXlipse Plugin (cont.)

Modify existing viewer configuration

Configure a viewer.

Viewer name: Sumatra PDF

Viewer command: C:\Program Files\SumatraPDF\SumatraPDF.exe Browse...

Viewer arguments: -reuse-instance %file

DDE message to send on view

Command: [ForwardSearch("%fullfile", "%texfile", %line, 0, 0, 1)]

Server: SUMATRA Topic: control

DDE message to send before rebuild

Command:

Server: Topic:

Viewer input file format: pdf

Inverse search support: Viewer runs external command

Viewer supports forward search

File ok.

OK Cancel

- Alternate “forward search” command
 - (Forward search allows you to preview the LaTeX generated PDF at the location associated with your current cursor position in a LaTeX source file—***Ctrl-4***)



TeXlipse Plugin (cont.)

- Make *Sumatra PDF* the top (preferred/default) viewer

Viewer configurations (by descending priority):

Sumatra PDF (C:\Program Files\SumatraPDF\SumatraPDF.exe)

yap (C:\Program Files\MiKTeX 2.8\miktex\bin\yap.exe)

none ()

xdvi ()

itexmac ()

kdvi ()

gv ()

acroread ()

New...

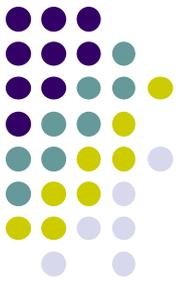
Remove

Up

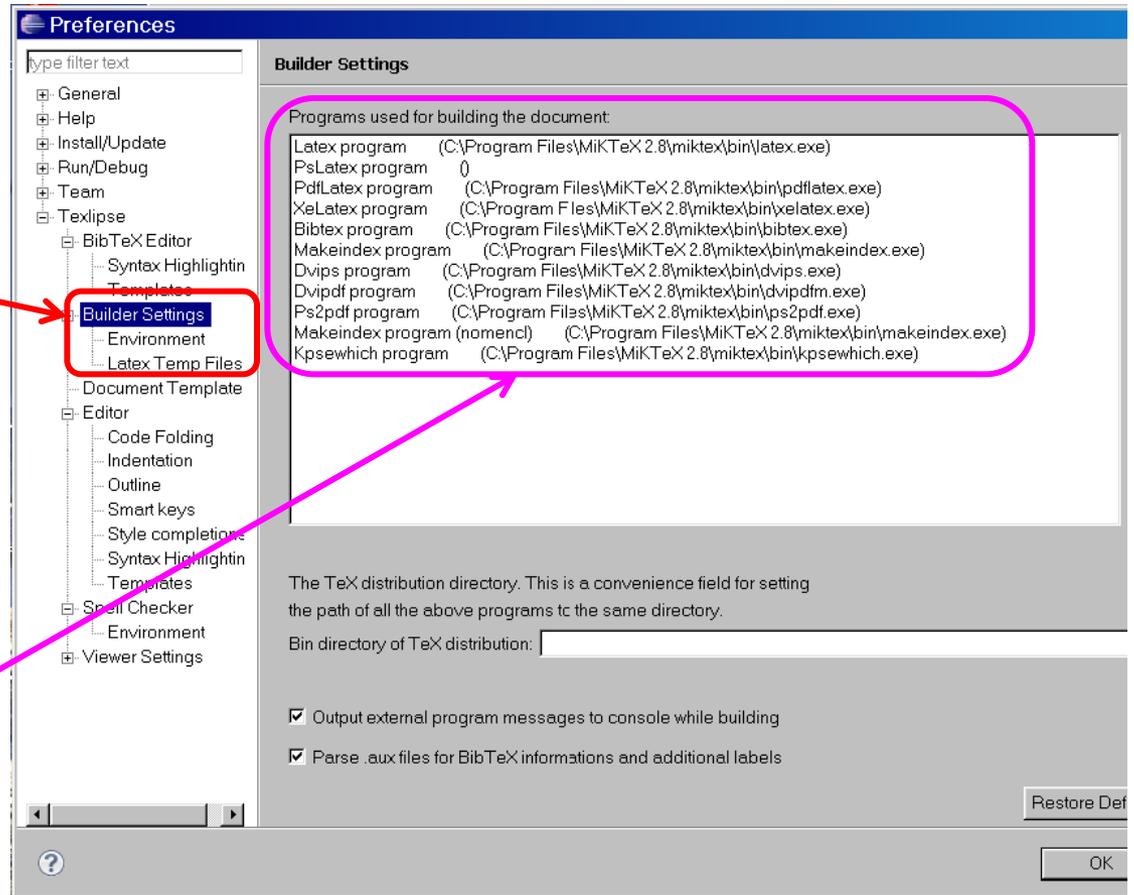
Down

Edit...

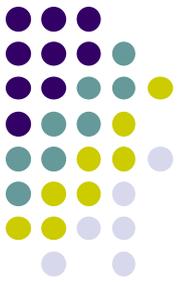
TeXlipse Plugin (cont.)



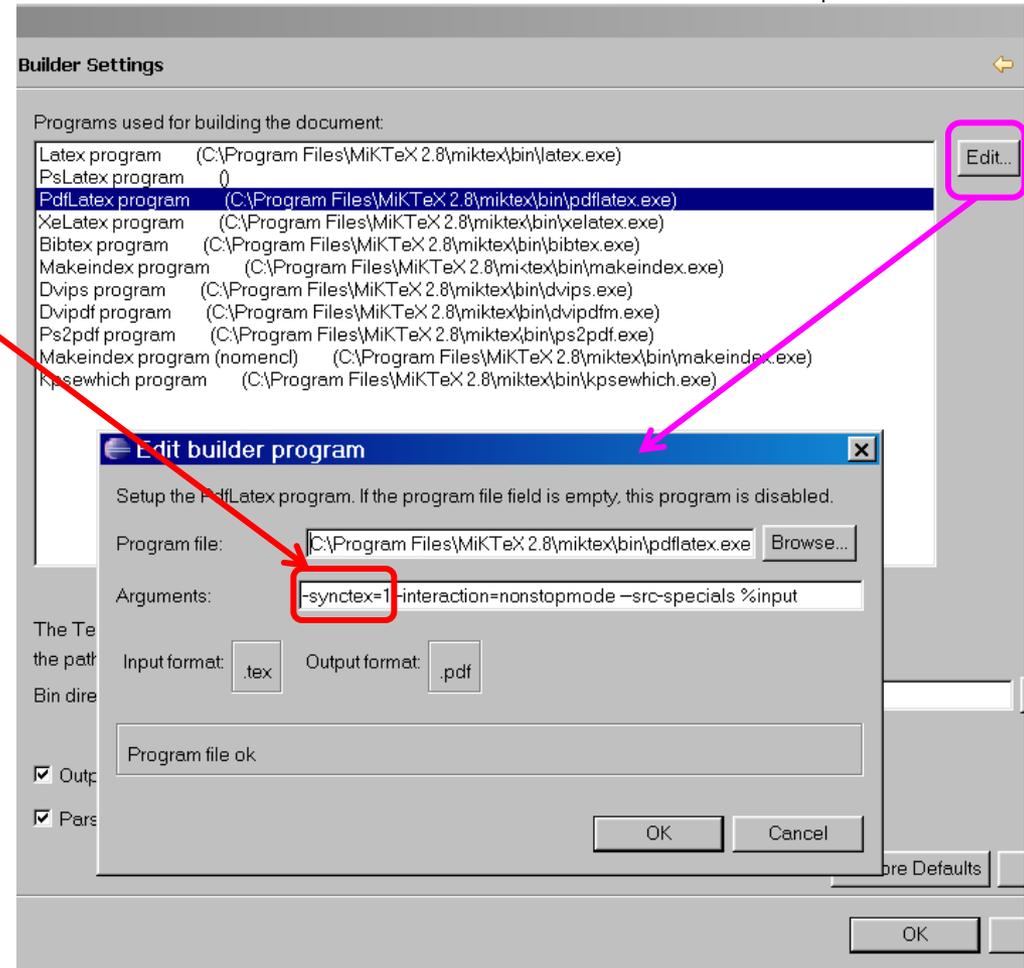
- Go to “Texlipse” → “Builder Settings” and make sure all the paths are defined as shown here



TeXlipse Plugin (cont.)



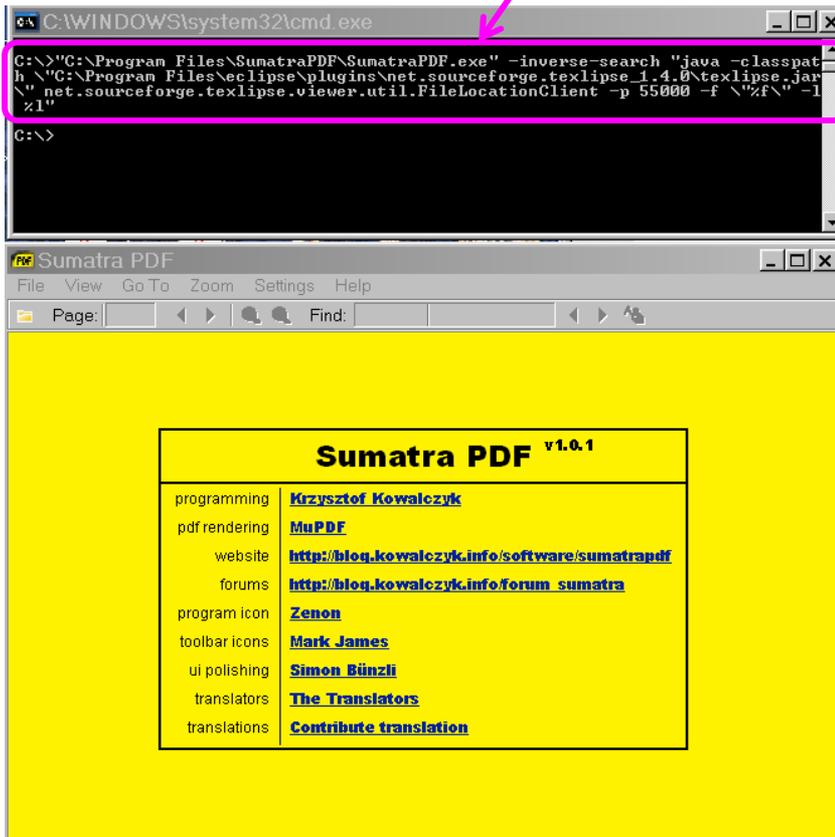
- Add “-synctex=1” for *PdfLatex* to facilitate synchronization between source LaTeX files and output PDF
- “-synctex=1” should be added for *Dvipdf* and *Ps2pdf* if those are also used





Reverse (Inverse) Search

```
"C:\Program Files\SumatraPDF\SumatraPDF.exe" -inverse-search "java -classpath  
\"C:\Program Files\eclipse\plugins\net.sourceforge.texlipse_1.4.0\texlipse.jar\  
\" net.sourceforge.texlipse.viewer.util.FileLocationClient -p 55000 -f \"%f\" -l %l"
```



- Execute the above command once and close *Sumatra PDF*
 - You may have to change the paths based on your installation
- (Reverse (inverse) search allows you to double click on the LaTeX generated PDF to take you to the corresponding place in a source LaTeX file)



Making a New LaTeX Project

Resource - Eclipse Platform

File Edit Navigate Search Project Run Window Help

New Alt+Shift+N Project...

Open File... Folder

Close Ctrl+W File

Close All Ctrl+Shift+W Untitled Text File

Save Ctrl+S Other... Ctrl+N

Save As... Move...

Save All Ctrl+Shift+S Rename... F2

Revert Refresh F5

Convert Line Delimiters To

Print...

Switch Workspace Restart

Import... Export...

Properties Alt+Enter

Exit

Click on "File" → "New" → "Project..."

New Project

Select a wizard

Create a LaTeX project

Wizards:

type filter text

General

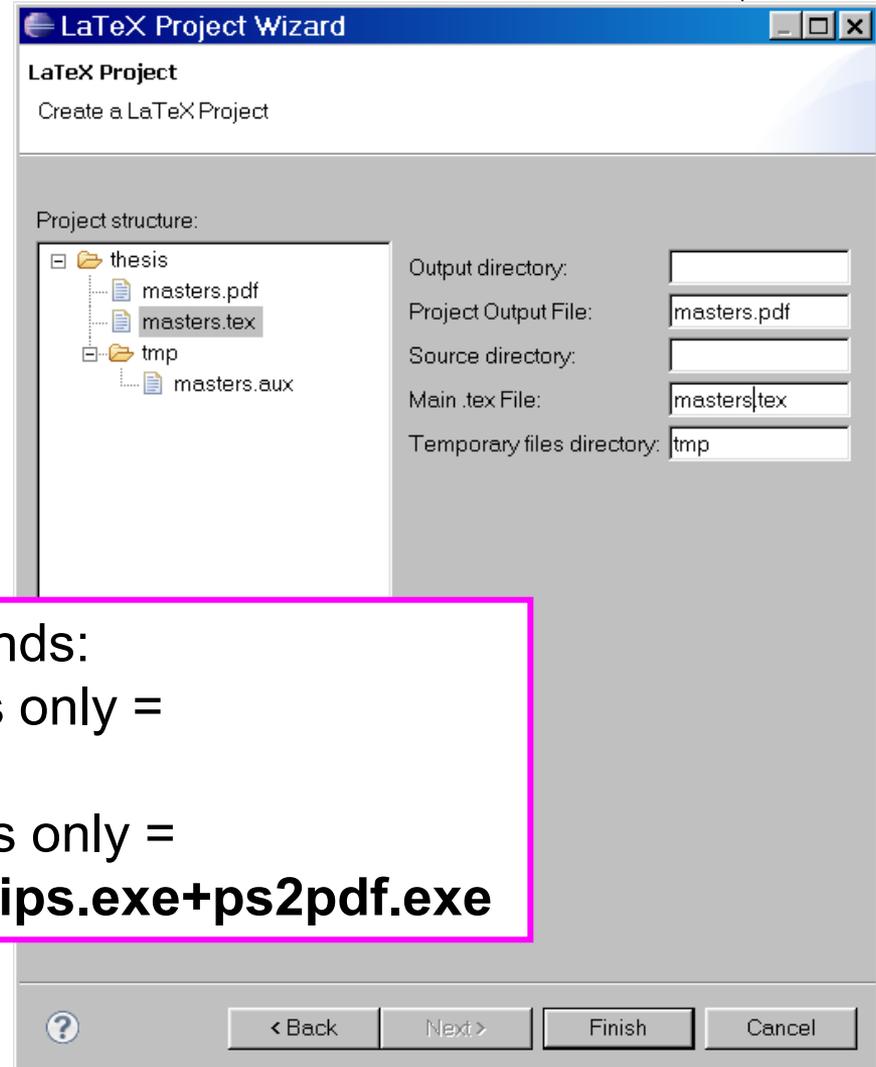
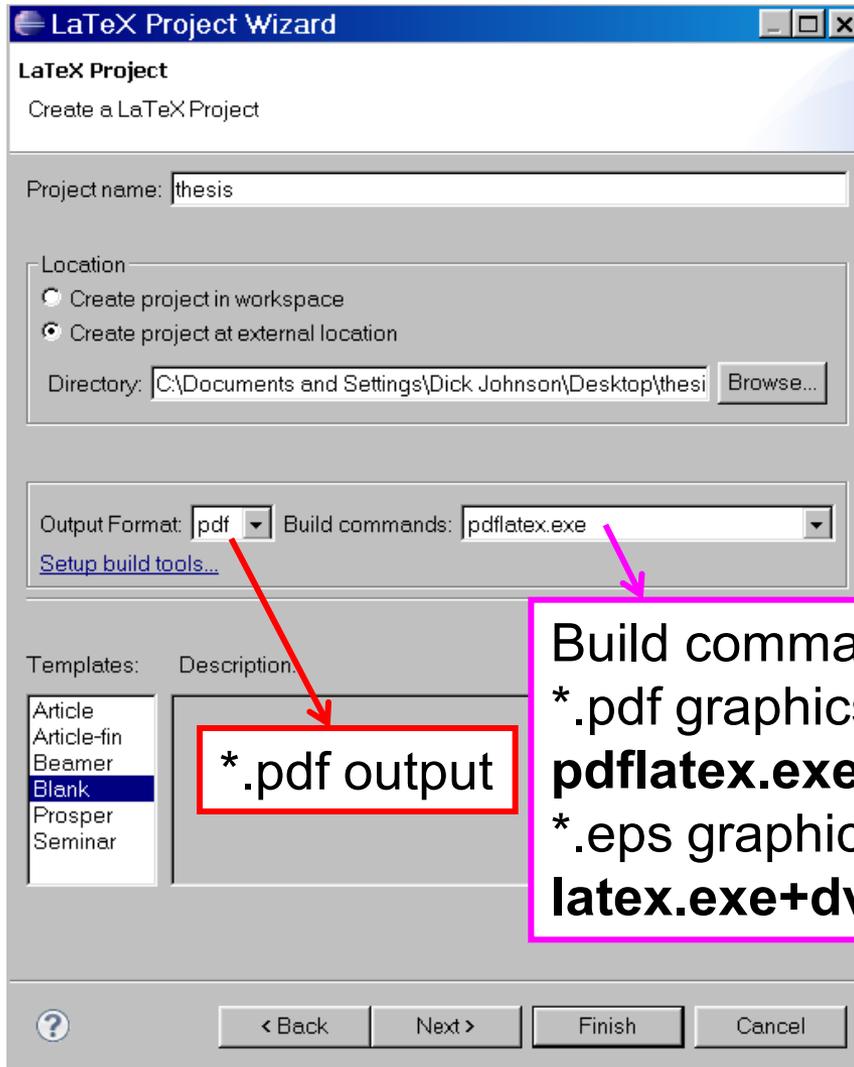
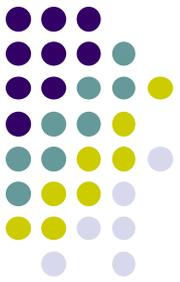
Texlipse

LaTeX Project

Choose "Texlipse" → "LaTeX Project"

< Back Next > Finish Cancel

Making a New LaTeX Project (cont.)

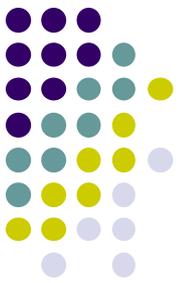


Build commands:
*.pdf graphics only = **pdflatex.exe**
*.eps graphics only = **latex.exe+dvips.exe+ps2pdf.exe**



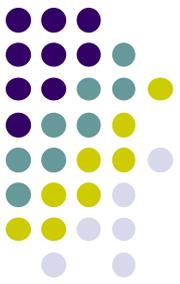
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Thesis Templates

- Get the appropriate thesis template files
 - Put the files (*.cls and *.clo) into the same folder as your project
- Include the document “class”; examples:
 - **\documentclass[twoside, 11pt]{ucdthesis}**
 - Old 2002 UC Davis thesis template
 - **\documentclass[MS, twoside]{ucdavisthesis}**
 - Ryan’s UC Davis thesis template
- For further details see example thesis project folders enclosed in *example_thesis.zip*



Thesis Templates (cont.)

- Downloading the latest (Ryan's) UC Davis template:
 - <http://tug.ctan.org/tex-archive/macros/latex/contrib/ucdavisthesis/>

← → ↻ ★ <http://tug.ctan.org/tex-archive/macros/latex/contrib/ucdavisthesis/>

CTAN *the Comprehensive TeX Archive Network*

Directory: [CTAN home](#) / [tex-archive](#) / [macros](#) / [latex](#) / [contrib](#) / [ucdavisthesis](#)

You can get this entire directory bundled as [ucdavisthesis.zip](#)



Thesis Templates (cont.)

```
C:\WINDOWS\system32\cmd.exe
C:\>cd ucdavisthesis_Ryan
C:\ucdavisthesis_Ryan>pdflatex ucdavisthesis.ins
This is pdfTeX, Version 3.1415926-1.40.10 (MiKTeX 2.8)
entering extended mode
(C:\ucdavisthesis_Ryan\ucdavisthesis.ins
LaTeX2e <2009/09/24>
Babel <v3.81> and hyphenation patterns for english, dummylang, nohyphenation, ge
rman, ngerman, german-x-2009-06-19, ngerman-x-2009-06-19, french, loaded.
(C:\Program Files\MiKTeX 2.8\tex\latex\base\docstrip.tex"
Utility: 'docstrip' 2.5d <2005/07/29>
English documentation <1999/03/31>

*****
* This program converts documented macro-files into fast *
* loadable files by stripping off (nearly) all comments! *
*****

*****
* No Configuration file found, using default settings. *
*****

>

Generating file(s) ./ucdavisthesis.cls ./ucdthesis10.clo ./ucdthesis11.clo ./uc
dthesis12.clo ./ucdthesis13.clo

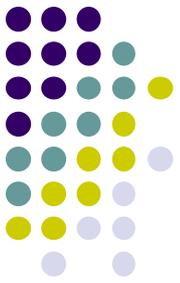
Processing file ucdavisthesis.dtx (class) -> ucdavisthesis.cls
(ucdxxpt,ucd10pt) -> ucdthesis10.clo
(ucdxxpt,ucd11pt) -> ucdthesis11.clo
(ucdxxpt,ucd12pt) -> ucdthesis12.clo
(ucdxxpt,ucd13pt) -> ucdthesis13.clo

File ucdavisthesis.dtx ended by \endinput.
Lines processed: 2328
Comments removed: 1090
Comments passed: 16
Codelines passed: 1146

*****
*
* To finish the installation you have to move the
* following files into a directory searched by
* TeX. See the FAQ on CTAN at /help/uk-tex-faq
* for more on this.
*
*
* ucdavisthesis.cls
* ucdthesis10.clo
* ucdthesis11.clo
* ucdthesis12.clo
* ucdthesis13.clo
*
* To produce the documentation run the file
* ucdavisthesis.dtx through LaTeX.
*
* Happy LaTeXing!
*
*****

No pages of output.
Transcript written on ucdavisthesis.log.
C:\ucdavisthesis_Ryan>
```

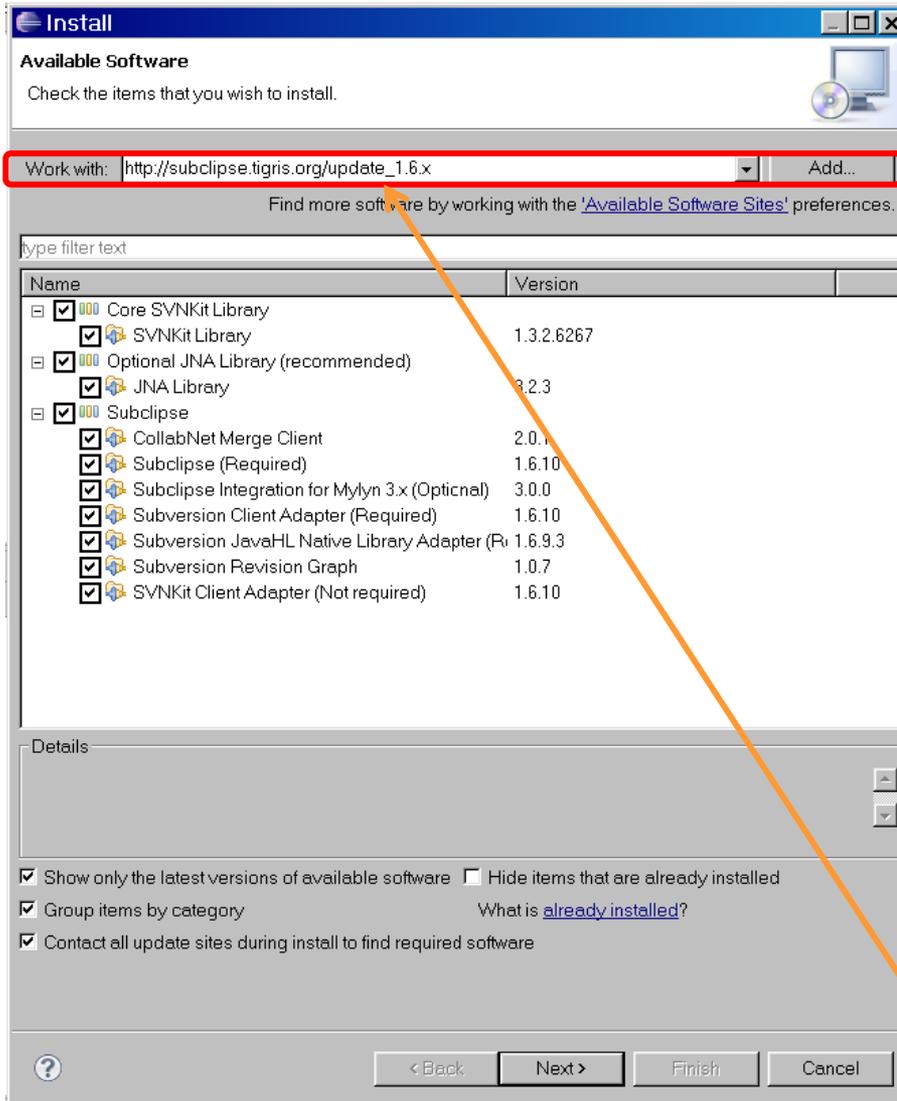
- Unzip *ucdavisthesis.zip*
- In a command line window execute:
 - **pdflatex ucdavisthesis.ins**
- Four files should be generated:
 - *ucdavisthesis.cls*
 - *ucdthesis1*.clo*



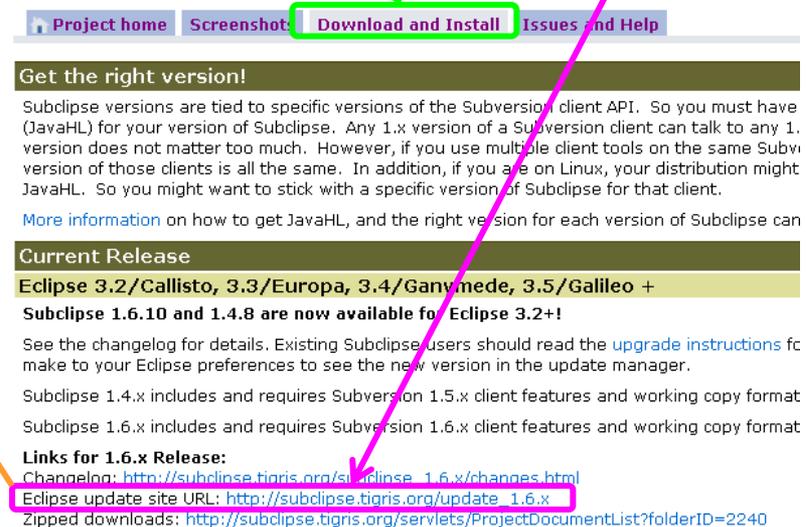
Outline

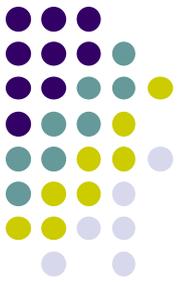
- Introduction
- Preliminary Tools
- Eclipse IDE
- TeXlipse
- Thesis Template
- **Version Control and Backup with *Subclipse+Subversion+Apache***
- Miscellaneous

Subclipse Plugin Install



- Install in the same way as TeXlipse
- Click on “Help” → “Install New Software...”
- Go to <http://subclipse.tigris.org/>
- Find the latest update link





Subversion Install

- Go to <http://subversion.apache.org/>
 - Click on “Getting Subversion” → “Binary Packages”
 - Click on “Windows”; click on the “Apache 2.2-compatible” link
 - Get the latest stable binary

Subversion Binary Packages

Find packages for your operating system:

[AIX](#) | [Debian Linux](#) | [Fedora Linux](#) | [FreeBSD](#) | [HP-UX](#) | [NetBSD](#) | [OpenBSD](#) | [Mac OS X](#) | [Red Hat Linux](#) | [Solaris](#) | [SUSE Linux](#) | [Ubuntu Linux](#) | [Windows](#)

Windows Apache 2.2.x

Windows binaries built against Apache 2.2.x

Name	Status	Modified by	Size	Reservations	Description
Setup-Subversion-1.6.4.msi	Stable	ebswift on Monday, August 10, 2009 at 12:09:07 PM	7.26 MB		Windows MSI installer with the basic win32 binaries - includes binaries for Apache 2.2.x (2.2.9 or higher is required within the 2.2.x series)
Setup-Subversion-1.6.5.msi	Stable	ebswift on Wednesday, August 26, 2009 at 1:44:21 PM	7.27 MB		Windows MSI installer with the basic win32 binaries - includes binaries for Apache 2.2.x (2.2.9 or higher is required within the 2.2.x series)
Setup-Subversion-1.6.6.msi	Stable	ebswift on Thursday, November 5, 2009 at 1:42:41 PM	4.61 MB		Windows MSI installer with the basic win32 binaries - includes binaries for Apache 2.2.x (2.2.9 or higher is required within the 2.2.x series)

Subversion Binary Packages

Find packages for your operating system:

[AIX](#) | [Debian Linux](#) | [Fedora Linux](#) | [FreeBSD](#) | [HP-UX](#) | [NetBSD](#) | [OpenBSD](#) | [Mac OS X](#) | [Red Hat Linux](#) | [Solaris](#) | [SUSE Linux](#) | [Ubuntu Linux](#) | [Windows](#)

Windows

- [CollabNet](#) (certified) binaries; maintained by [CollabNet](#)
- [Tigris.org](#) (Apache 2.2-compatible; maintained by [D.J. Heap](#), [Branko Čibej](#) and [Troy Simpson](#))
- [Tigris.org](#) (Apache 2.0-compatible; maintained by [D.J. Heap](#), [Branko Čibej](#) and [Troy Simpson](#))
- [SilkSVN](#) (32- and 64-bit client MSI; maintained by [Bert Huijben](#), [SharpSvn project](#))
- [VisualSVN](#) (VisualSVN Server; maintained by [VisualSVN](#))

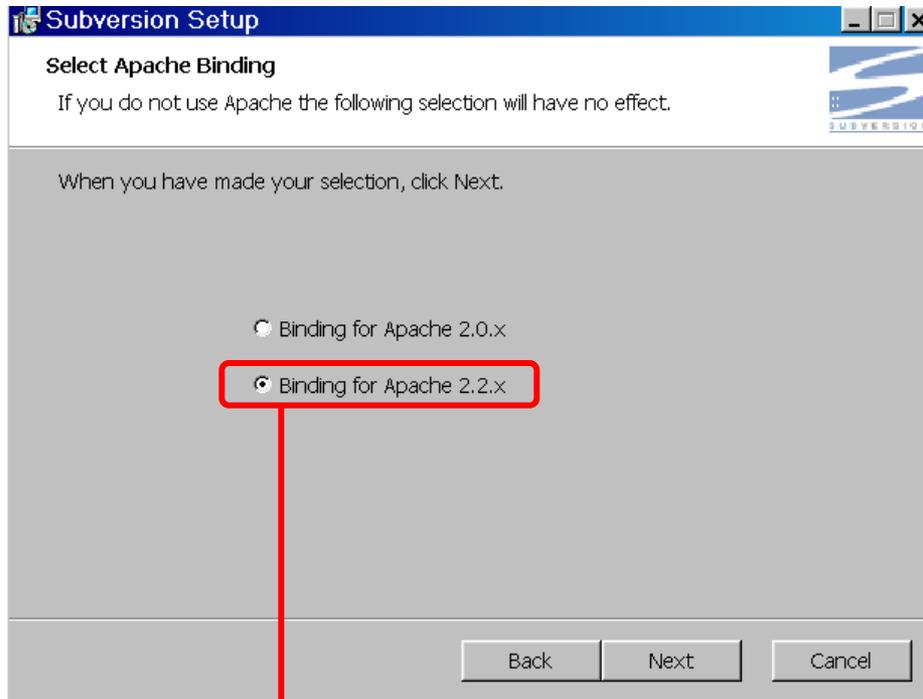
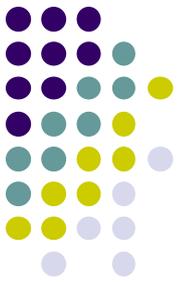
Windows Apache 2.2.x

Windows binaries built against Apache 2.2.x

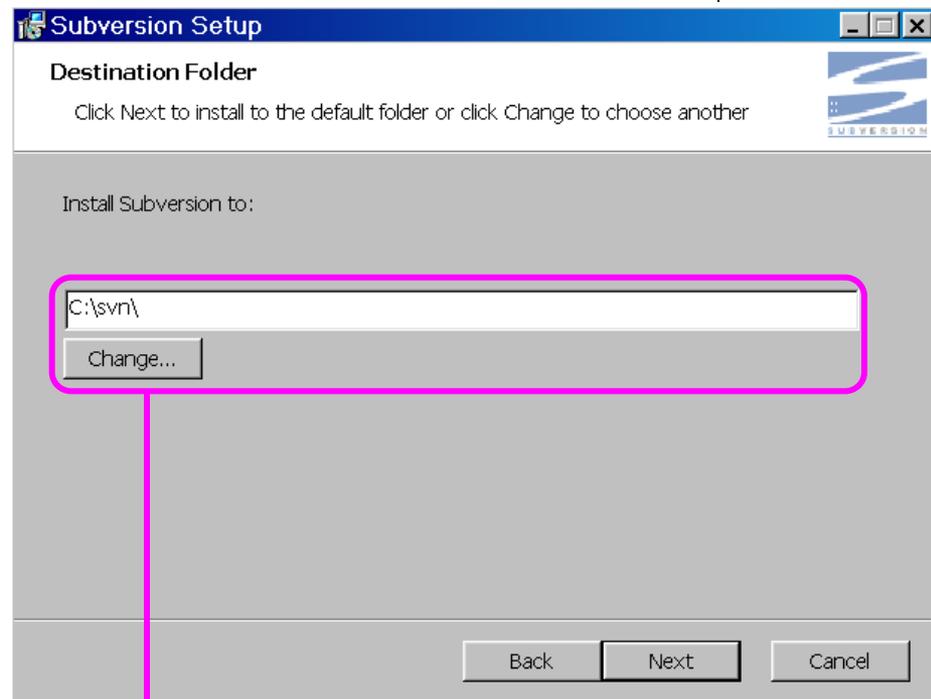
Filter this list

Name	Status	Modified by	Size	Reservations	Description
Setup-Subversion-1.6.4.msi	Stable	ebswift on Monday, August 10, 2009 at 12:09:07 PM	7.26 MB		Windows MSI installer with the basic win32 binaries - includes binaries for Apache 2.2.x (2.2.9 or higher is required within the 2.2.x series)
Setup-Subversion-1.6.5.msi	Stable	ebswift on Wednesday, August 26, 2009 at 1:44:21 PM	7.27 MB		Windows MSI installer with the basic win32 binaries - includes binaries for Apache 2.2.x (2.2.9 or higher is required within the 2.2.x series)
Setup-Subversion-1.6.6.msi	Stable	ebswift on Thursday, November 5, 2009 at 1:42:41 PM	4.61 MB		Windows MSI installer with the basic win32 binaries - includes binaries for Apache 2.2.x (2.2.9 or higher is required within the 2.2.x series)

Subversion Install (cont.)

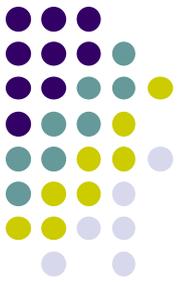


If given a choice
choose *Apache 2.2.x*

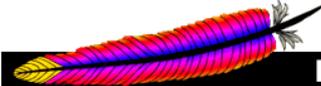


Change path to make life easy

Apache Install



← → ↻ ☆ http://httpd.apache.org/download.cgi



Apache HTTP SERVER PROJECT

Downloading the Apache HTTP Server

Use the links below to download the Apache HTTP Server from one of our mirrors. You **must** [verify its signatures](#) downloaded from our main distribution directory.

Only current recommended releases are available on the main distribution site and its mirrors. Older [release download site](#).

Current Releases:

- [2.3.5-alpha](#) (released 2010-1-28)
- [2.2.15](#) (released 2010-03-06)
- [2.0.63](#) (released 2008-01-19)
- [1.3.42](#) (released 2010-02-02)

If you are downloading the Win32 distribution, please read these [important notes](#).

Essentials

- [About](#)
- [License](#)
- [FAQ](#)
- [Security Reports](#)

Download!

- [from a mirror](#)

Documentation

- [Version 2.2](#)
- [Version 2.0](#)

Apache HTTP Server (httpd) 2.2.15 is the best available version 2010-03-06

The Apache HTTP Server Project is pleased to announce the release of Apache HTTP Server (httpd) version 2.2.15. This release represents fifteen years of innovation by the project, and is recommended over all previous releases!

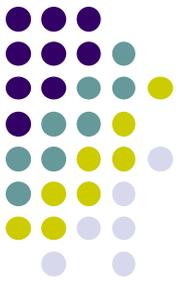
For details see the [Official Announcement](#) and the [CHANGES_2.2](#) or condensed [CHANGES_2.2.15](#) lists

Add-in modules for Apache 1.3 or 2.0 are not compatible with Apache 2.2. If you are running third party add-in modules, you must obtain modules compiled or updated for Apache 2.2 from that third party, before you attempt to upgrade from these previous versions. Modules compiled for Apache 2.2 should continue to work for all 2.2.x releases.

- Unix Source: [httpd-2.2.15.tar.gz](#) [PGP] [MD5] [SHA1]
- Unix Source: [httpd-2.2.15.tar.bz2](#) [PGP] [MD5] [SHA1]
- Win32 Source: [httpd-2.2.15-win32-src-r2.zip](#) [PGP] [MD5] [SHA1]
- Win32 Binary without crypto (no mod_ssl) (MSI Installer): [httpd-2.2.15-win32-x86-no_ssl.msi](#) [PGP] [MD5] [SHA1]
- Win32 Binary including OpenSSL 0.9.8m (MSI Installer): [httpd-2.2.15-win32-x86-openssl-0.9.8m-r2.msi](#) [PGP] [MD5] [SHA1]
- Other files

- Download: <http://httpd.apache.org/download.cgi>
- Find the latest stable build
- Download the “MSI Installer” OpenSSL version

Apache Install (cont.)



Apache HTTP Server 2.2 - Installation Wizard

Server Information

Please enter your server's information.

Network Domain (e.g. somenet.com):
ece.ucdavis.edu

Server Name (e.g. www.somenet.com):
.ece.ucdavis.edu

Administrator's Email Address (e.g. webmaster@somenet.com):
admin@ece.ucdavis.edu

Install Apache HTTP Server 2.2 programs and shortcuts for:

for All Users, on Port 80, as a Service -- Recommended.

only for the Current User, on Port 8080, when started Manually.

< Back Next > Cancel

- Double check DNS, email, and port settings

Apache HTTP Server 2.2 - Installation Wizard

Destination Folder

Click Change to install to a different folder

Install Apache HTTP Server 2.2 to the folder:
C:\Apache2.2\

Change...

< Back Next > Cancel

- Do "Typical" installation
- Change path to make life easy

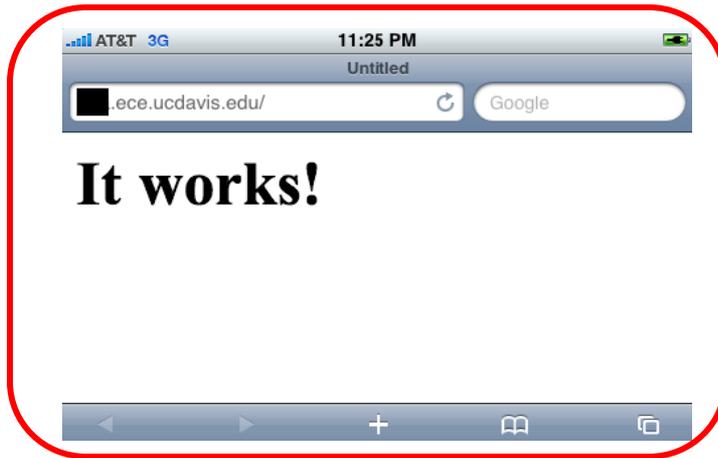
Apache Setup

Open up the port for *Apache* if you have Windows Firewall turned on

The image shows a Windows XP desktop environment with several windows open. The primary focus is on the Windows Firewall configuration. The 'Windows Firewall' window is open to the 'Exceptions' tab, where the 'Add Port...' button is highlighted with a blue box. A blue arrow points from this button to the 'Add a Port' dialog box, which is also highlighted with a blue box. In this dialog, the 'Name' field is set to 'Apache' and the 'Port number' is '80'. A red box highlights the text 'Open up the port for Apache if you have Windows Firewall turned on'. A red arrow points from this text to the 'Security Center' icon on the desktop. A pink arrow points from the 'Security Center' icon to the 'Windows Firewall' link in the 'Manage security settings for:' section of the Security Center window. The Security Center window also shows 'Automatic Updates' and 'Virus Protection' settings. The desktop background features a rocky landscape with several PDF files and folders. A 'Resources' window is also visible, providing links to Microsoft security information.



Apache Setup (cont.)

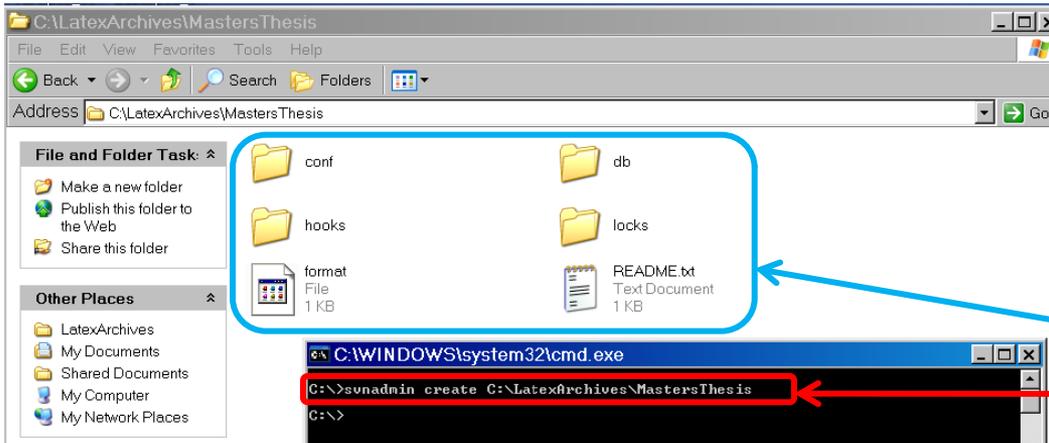
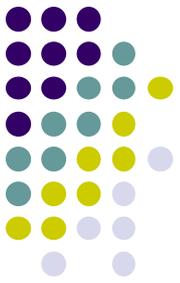


- Test if your server is now running and can be seen by another computer/device



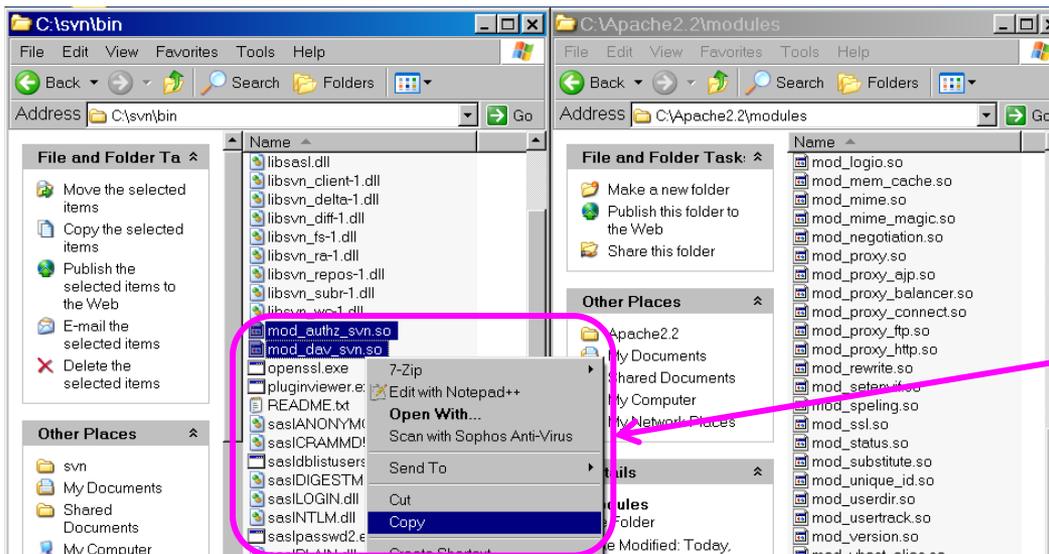
- You should at least be able to see this on your own computer (server) with a browser
- Use **ipconfig /all** to find your IP and DNS address
- Or use <http://ipgoat.com>

Subversion—Apache Setup



```
C:\WINDOWS\system32\cmd.exe
C:\>svnadmin create C:\LatexArchives\MastersThesis
C:\>
```

- Create the path to the repository (make new folders if required) and then execute: **svnadmin create** to generate the SVN files/folders



- Copy *mod_authz_svn.so* and *mod_dav_svn.so* from **C:\svn\bin** to **C:\Apache2.2\modules**

Subversion—Apache Setup (cont.)



The screenshot shows the Apache configuration files. On the left, Windows Explorer displays the directory `C:\Apache2.2\conf` with files like `httpd.conf` (18 KB) and `magic` (14 KB). A red arrow points from `httpd.conf` to the Notepad++ window. The Notepad++ window shows the `httpd.conf` file with a red circle highlighting the `LoadModule` section. The `LoadModule` section contains the following lines:

```
48 #  
49 # Dynamic Shared Object (DSO) Support  
50 #  
51 # To be able to use the functionality of a module which was built as a DSO you  
52 # have to place corresponding 'LoadModule' lines at this location so the  
53 # directives contained in it are actually available _before_ they are used.  
54 # Statically compiled modules (those listed by 'httpd -l') do not need  
55 # to be loaded here.  
56 #  
57 # Example:  
58 # LoadModule foo_module modules/mod_foo.so  
59 #  
60 ##### SVN CONFIGURATION #####  
61 LoadModule dav_module modules/mod_dav.so  
62 LoadModule dav_svn_module modules/mod_dav_svn.so  
63 LoadModule authz_svn_module modules/mod_authz_svn.so  
64 #####  
65 LoadModule actions_module modules/mod_actions.so  
66 LoadModule alias module modules/mod_alias.so
```

On the right, Windows Explorer displays the directory `C:\Apache2.2\modules` with a list of modules including `mod_authz_svn.so`.

- Add configuration lines to **C:\Apache2.2\conf\httpd.conf** as shown above
 - Notice that configuration paths have forward-slashes (/) instead of the DOS back-slash convention (\)

Subversion—Apache Setup (cont.)



```
C:\WINDOWS\system32\cmd.exe

C:\>mkdir etc

C:\>"C:\Apache2.2\bin\htpasswd.exe" -cm C:\etc\svn-auth-file PhilJackson
New password: ***
Re-type new password: ***
Adding password for user PhilJackson

C:\>"C:\Apache2.2\bin\htpasswd.exe" -m C:\etc\svn-auth-file KobeBryant
New password: ****
Re-type new password: ****
Adding password for user KobeBryant

C:\>
```

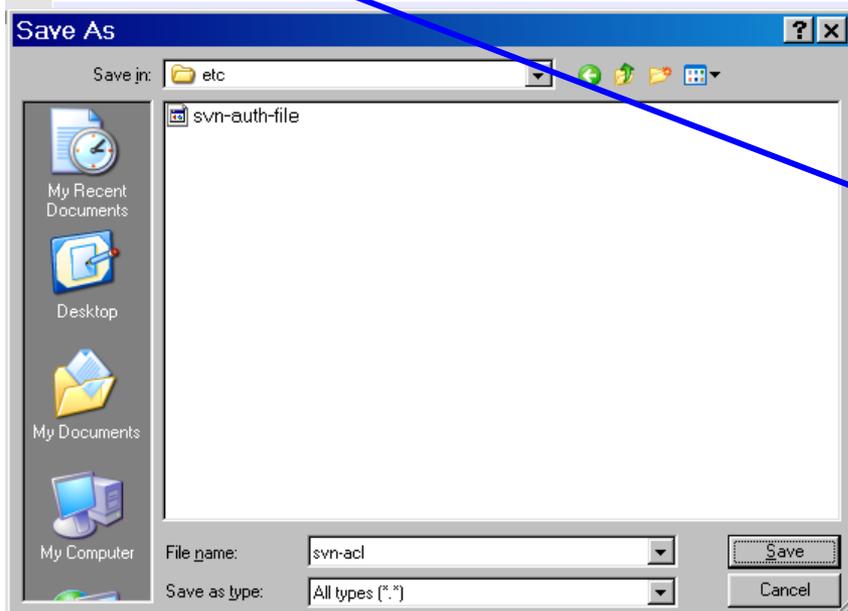
- Make a **C:\etc** directory
- Make passwords for project collaborators
 - “-c” option only used the first time so that the *svn-auth-file* is created

Subversion—Apache Setup (cont.)



```
1 #
2 # specify groups here
3 #
4 [groups]
5 Lakers = PhilJackson, KobeBryant
6
7 #
8 # "Lakers" has a read/write access to MastersThesis repository
9 # all subdirectories
10 # all others have read access only
11 #
12 [MastersThesis:/]
13 @Lakers = rw
14 * = r
15
```

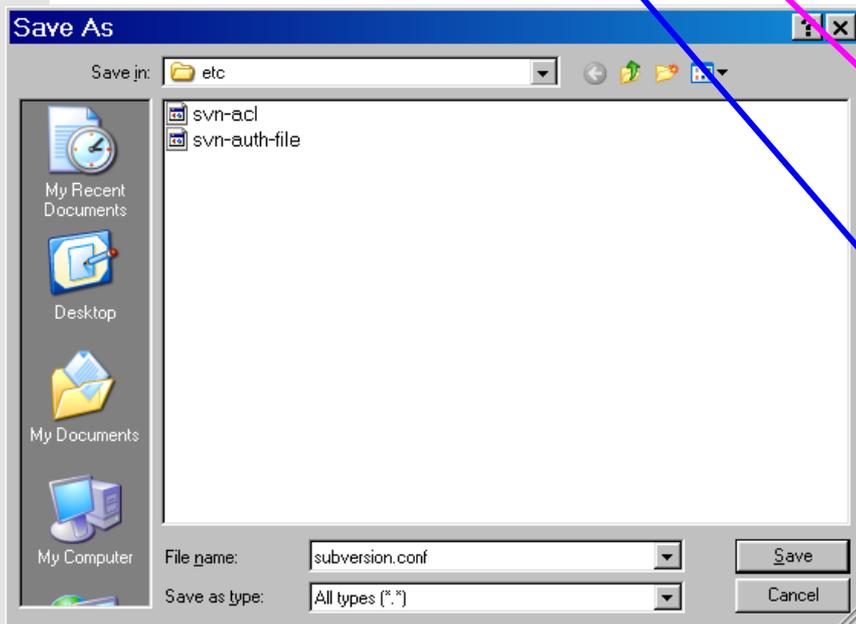
- Create **C:/etc/svn-acl** configuration file
- Make groups (teams)
- Point to the name (and root) of the SVN repository
- Set up the appropriate permissions



Subversion—Apache Setup (cont.)

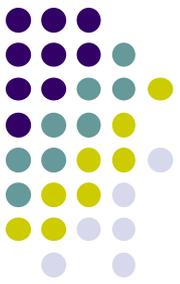


```
1 <Location /MastersThesis>
2   DAV svn
3   SVNPath C:/LatexArchives/MastersThesis
4
5   AuthType Basic
6   AuthName "Subversion MastersThesis repository"
7   AuthUserFile C:/etc/svn-auth-file
8
9   Require valid-user
10
11   AuthzSVNAccessFile C:/etc/svn-acl
12 </Location>
```

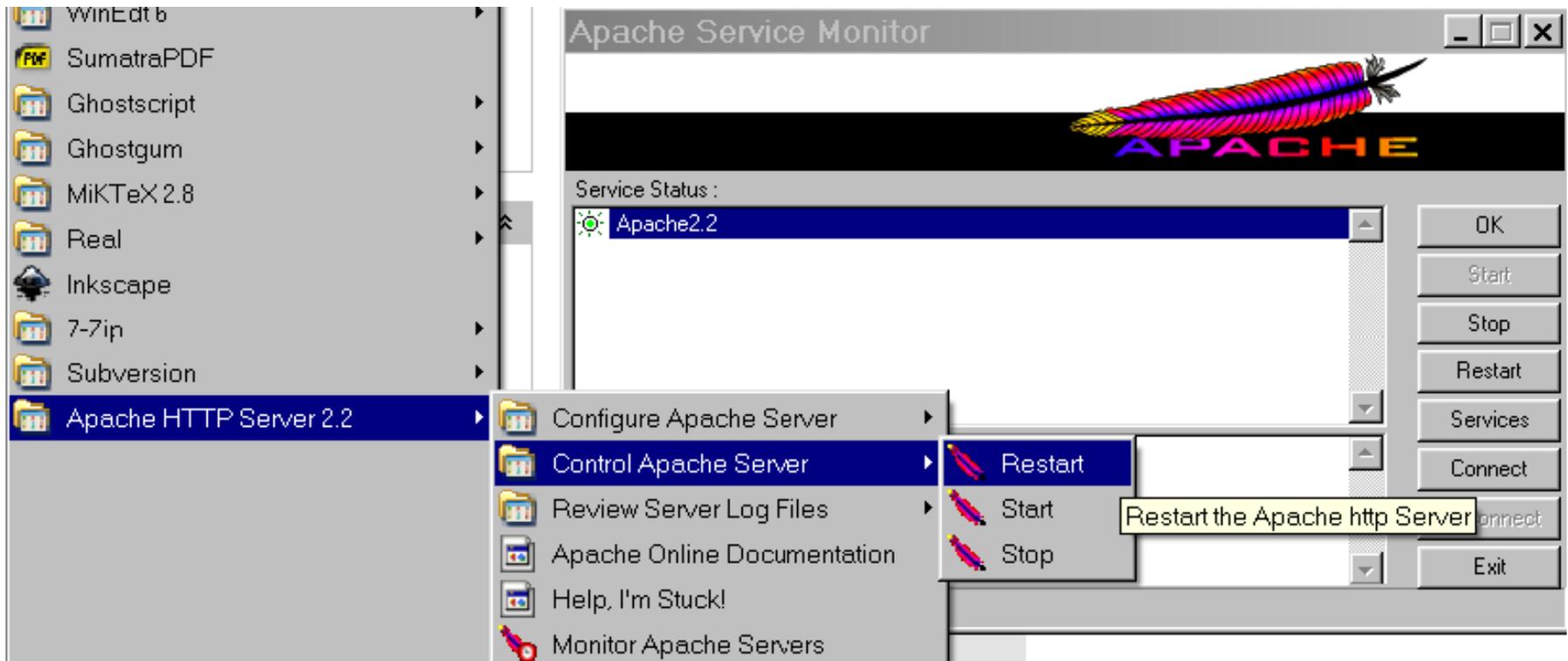


- Create **C:/etc/subversion.conf** configuration file
- Setup the HTTP location and point to the path of the SVN repository
- Point to **C:/etc/svn-auth-file**
- Point to **C:/etc/svn-acl**

Subversion—Apache Setup (cont.)



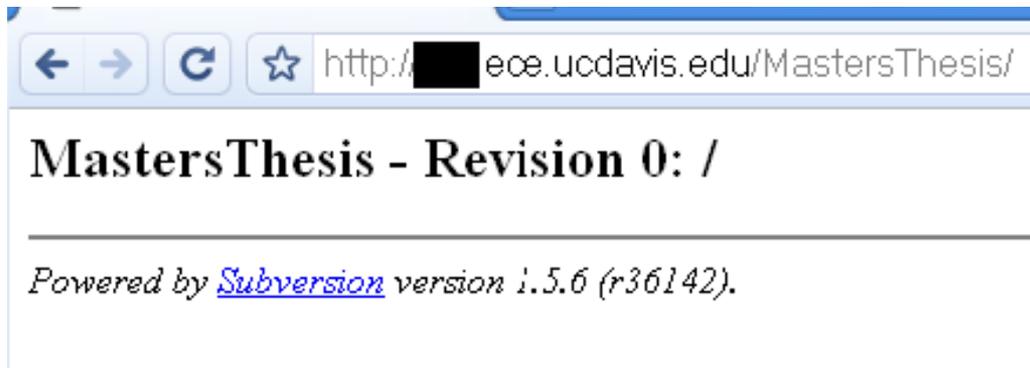
- Restart the *Apache* HTTP Server



Subversion—Apache Setup (cont.)



- Verify repository access
 - Example: **http://www.myserver.com/MastersThesis**



Authorization Required

This server could not verify that you are authorized to access the document requested.

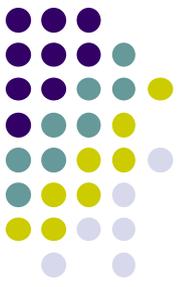
An 'Authentication Required' dialog box with a blue title bar and a close button. The text inside reads: 'The server java.ece.ucdavis.edu:80 at Subversion MastersThesis repository requires a username and password.' Below this text are two input fields: 'User Name:' with the value 'KobeBryant' and 'Password:' with a masked password. At the bottom are 'Log In' and 'Cancel' buttons.

Authentication Required

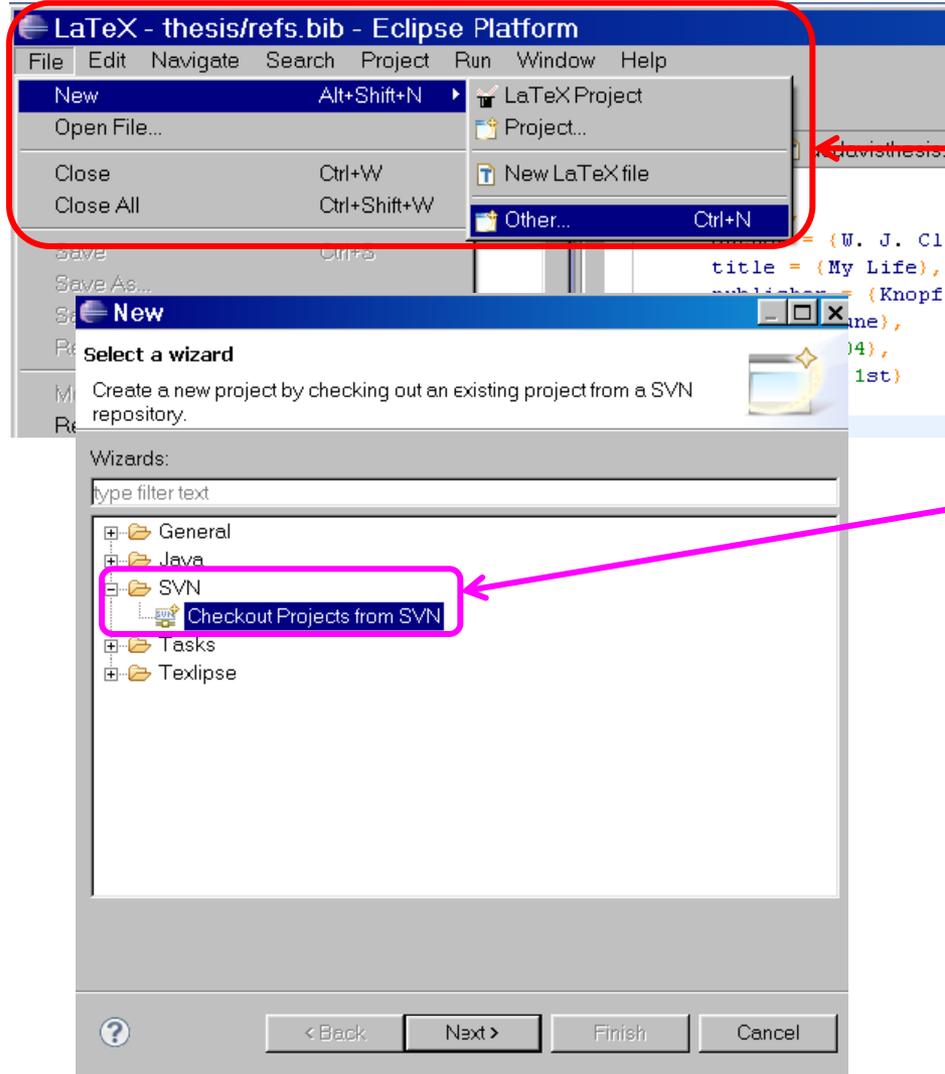
The server java.ece.ucdavis.edu:80 at Subversion MastersThesis repository requires a username and password.

User Name:

Password:



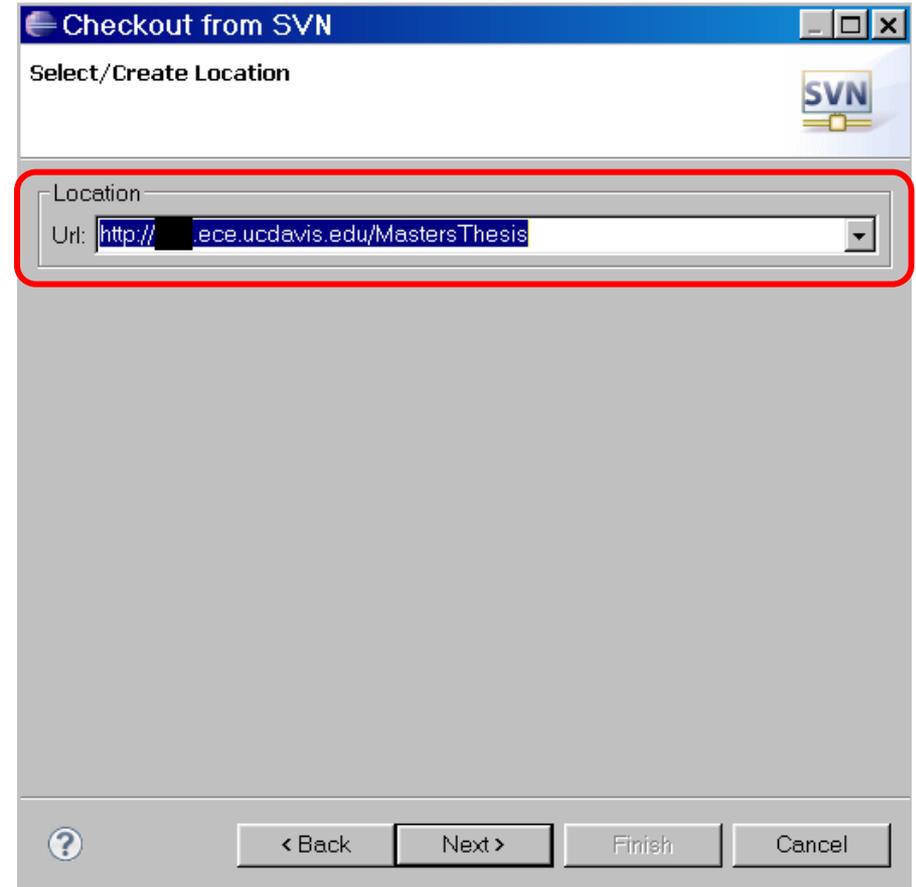
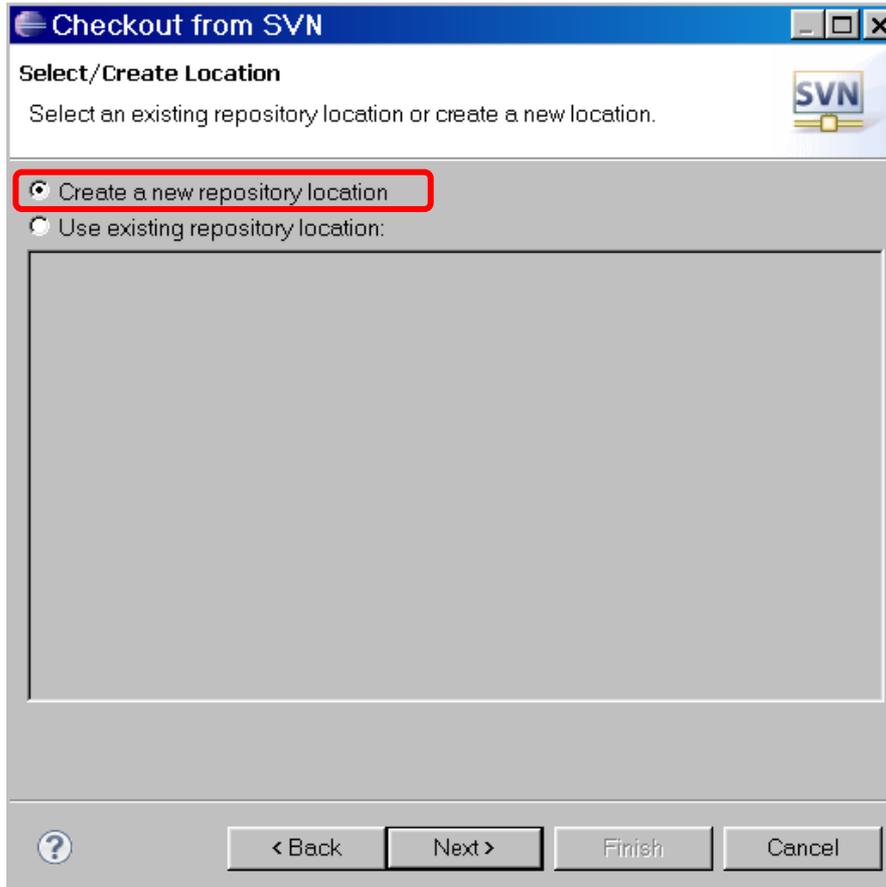
Subclipse Project



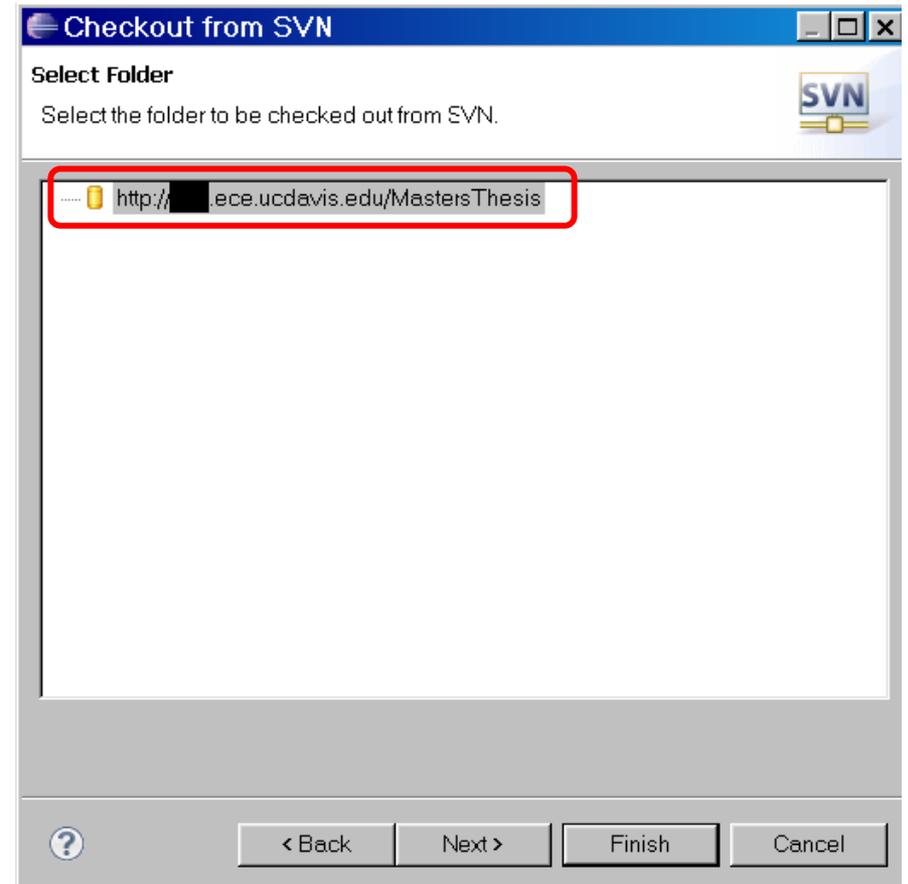
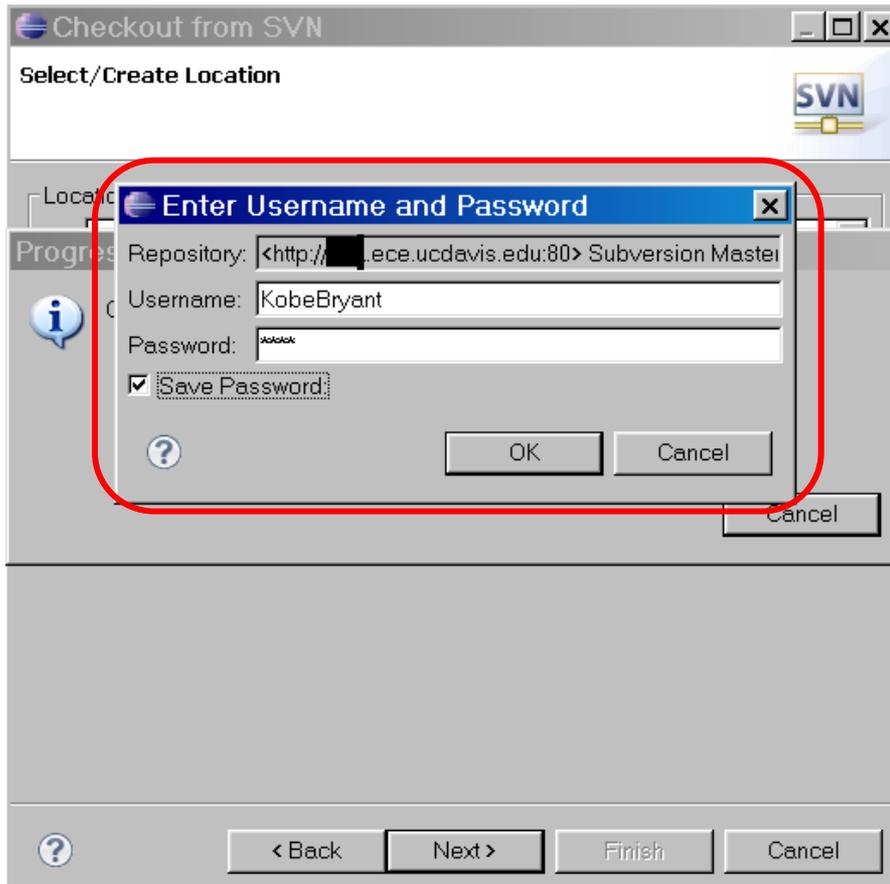
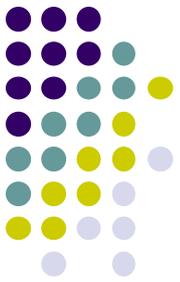
● Click on “New” → “Other...”

● Select “SVN” → “Checkout Project from SVN”

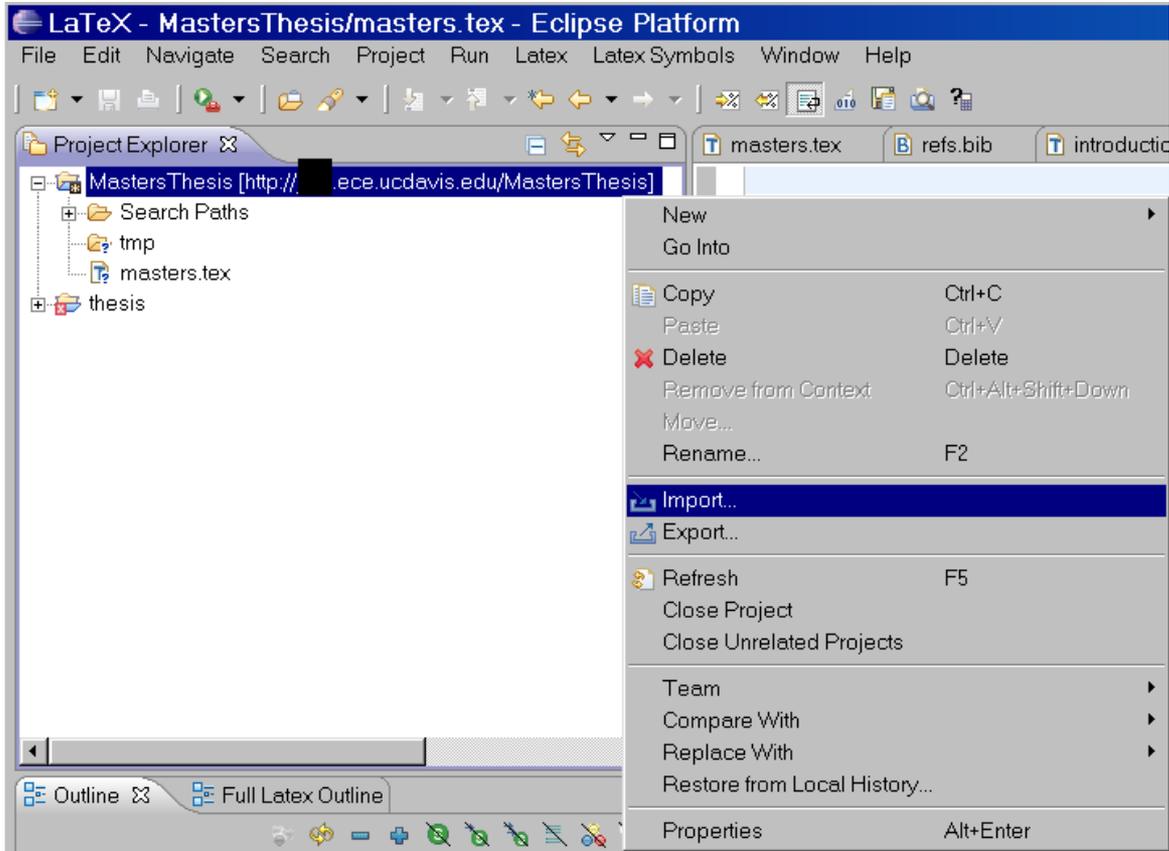
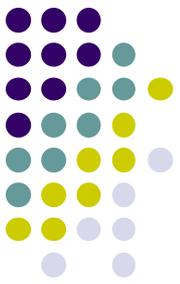
Subclipse Project (cont.)



Subclipse Project (cont.)

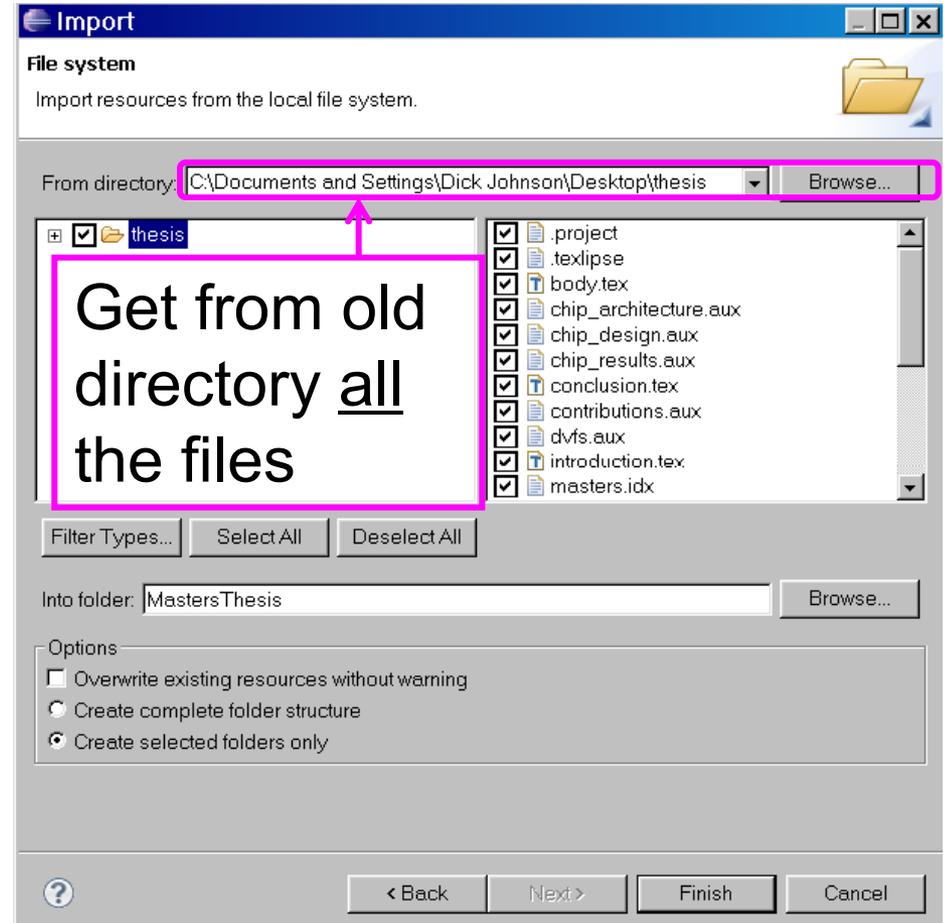
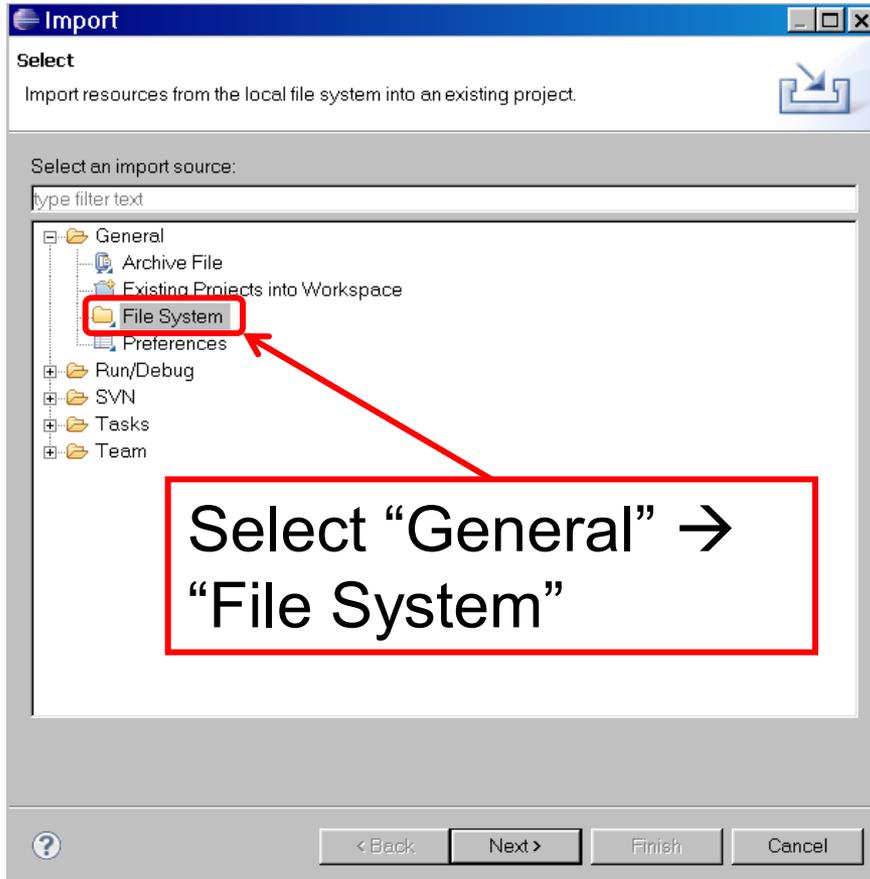
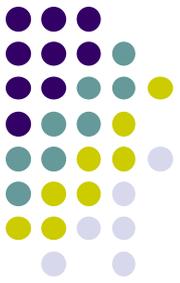


Import into Subclipse Project

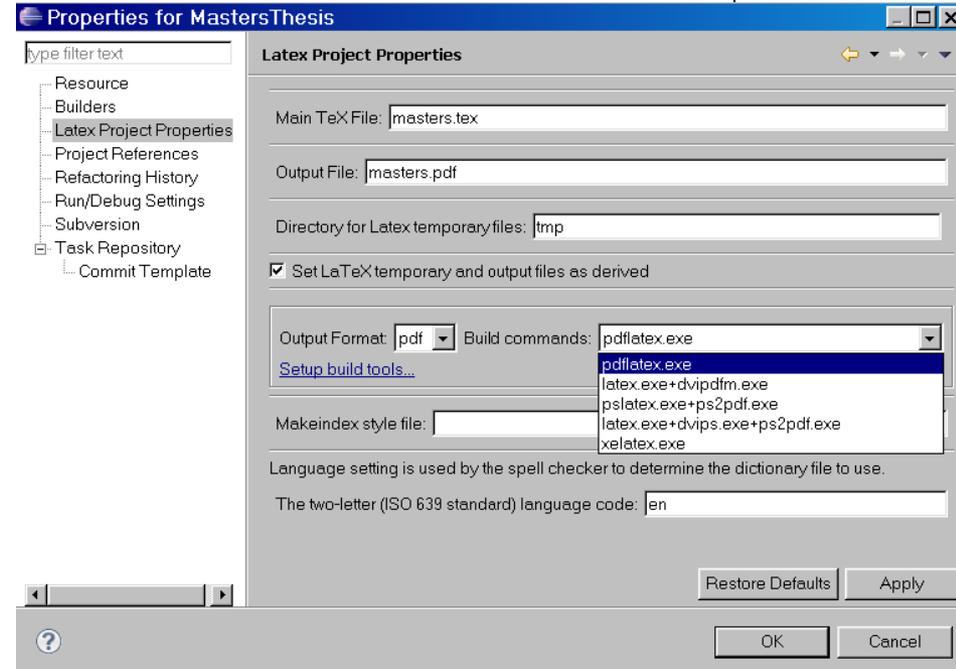
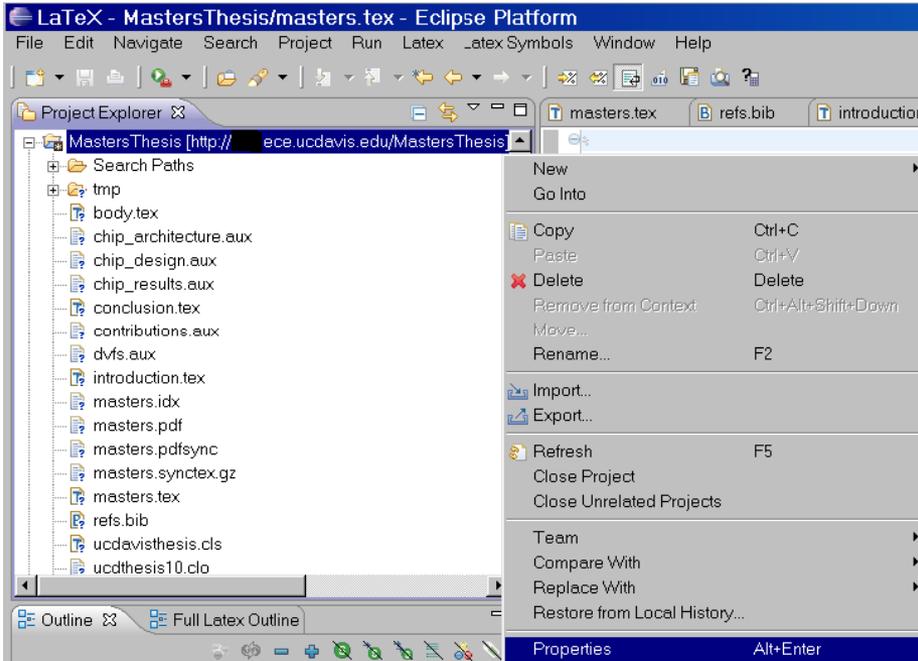


- You can import LaTeX files from another project into the *Subclipse* project

Import into Subclipse Project (cont.)

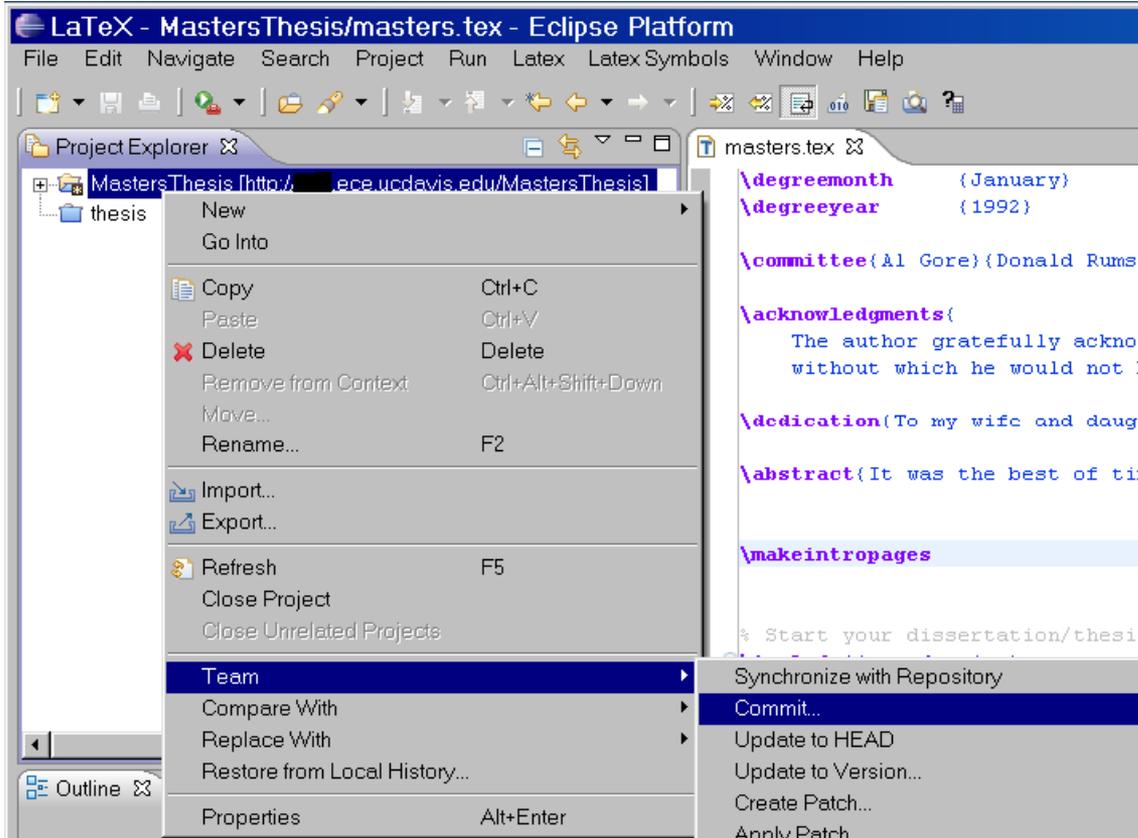
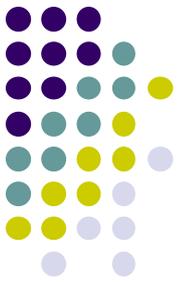


Import into Subclipse Project (cont.)



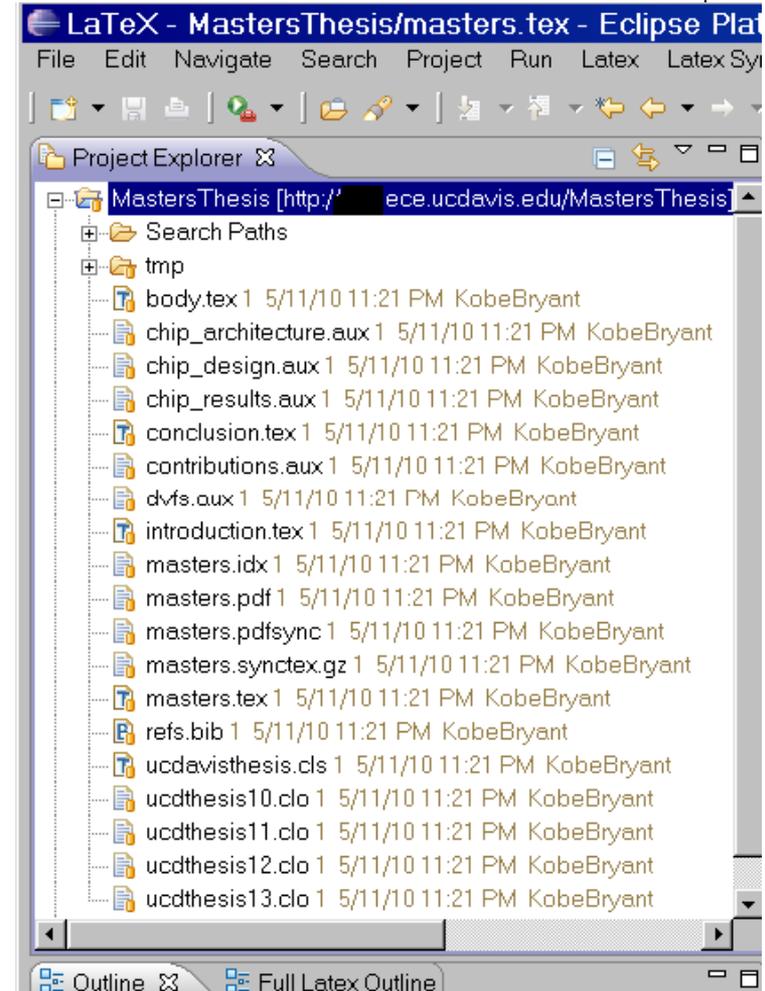
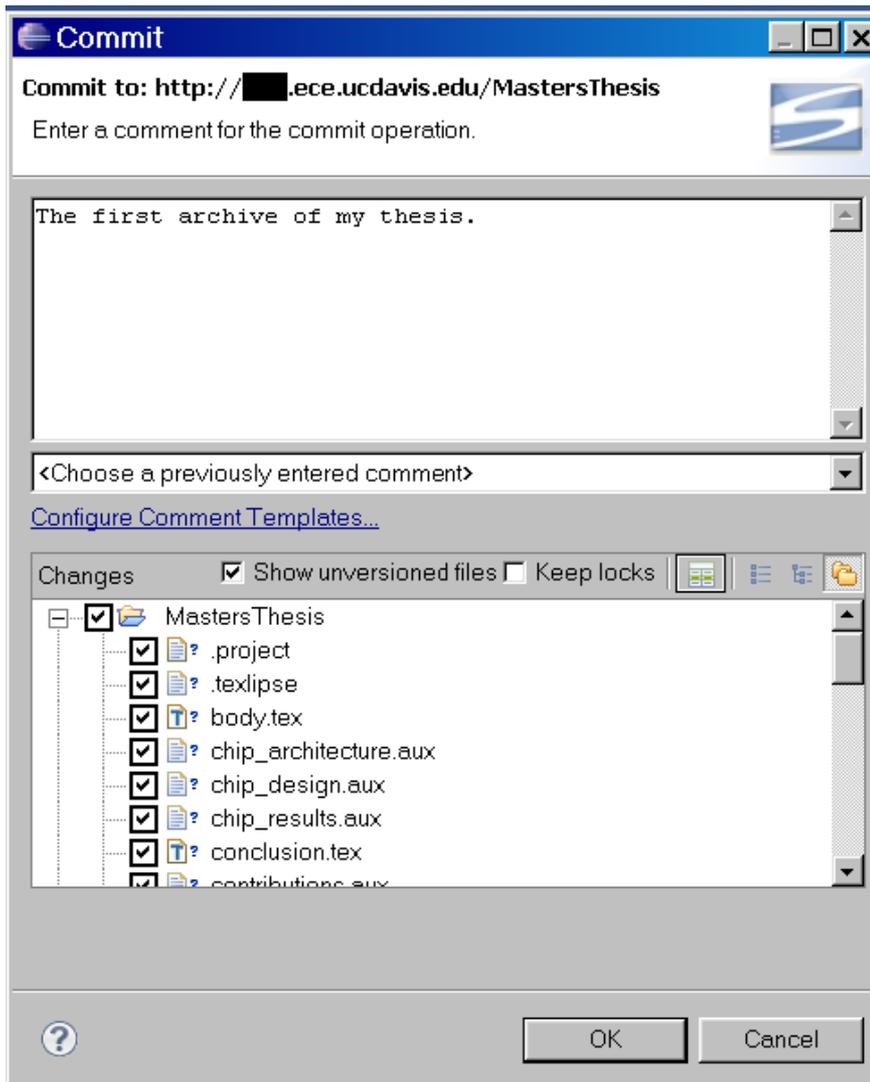
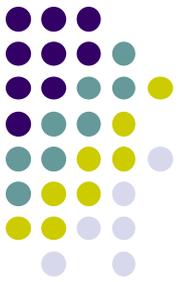
- Make sure to change (if necessary) the LaTeX properties to what you expect

Commit Subclipse Project

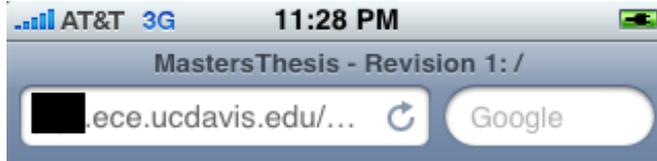


- “Commit”
(upload new/modified files) to the *SVN/Apache* server

Commit Subclipse Project (cont.)



Commit Subclipse Project (cont.)



MastersThesis - Revision 1: /

- [.project](#)
- [.texlipse](#)
- [body.tex](#)
- [chip_architecture.aux](#)
- [chip_design.aux](#)
- [chip_results.aux](#)
- [conclusion.tex](#)
- [contributions.aux](#)
- [dvfs.aux](#)
- [introduction.tex](#)
- [masters.idx](#)
- [masters.pdf](#)
- [masters.pdfsync](#)
- [masters.synctex.gz](#)
- [masters.tex](#)
- [refs.bib](#)
- [tmp/](#)
- [ucdavisthesis.cls](#)
- [ucdthesis10.clo](#)
- [ucdthesis11.clo](#)
- [ucdthesis12.clo](#)
- [ucdthesis13.clo](#)

Powered by [Subversion](#) version 1.5.6 (r36142).

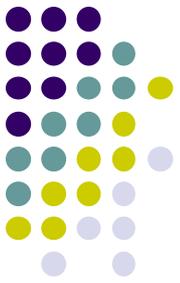


- You can also see the committed files using a browser

Backing Up

- **Not Done Yet**





Outline

- Introduction
- Preliminary Tools
- Eclipse IDE
- TeXlipse
- Thesis Template
- Version Control and Backup with *Subclipse+Subversion+Apache*
- **Miscellaneous**



Miscellaneous

- Dealing with *.eps
- Making comments with *pdfcomments*
- Dealing with IEEE LaTeX templates
 - Coming Soon...
- Dealing with ACM LaTeX templates
 - Coming Soon...
- Additional Tips???

Miscellaneous

- **Not Done Yet**

