

Eclipse/Subversion/Linux Script

## Build a C Project in Eclipse

Open Eclipse

Create a New C Project (named simple)

Add a source directory (src)

Add a directory (bin)

Add a C Source file (src/simple.c)

<http://zeus.cs.pacificu.edu/chadd/cs480s09/Lectures/simple.c.html>

Add a File (Makefile)

<http://zeus.cs.pacificu.edu/chadd/cs480s09/Lectures/makefile.html>

Create Make Targets (all, simple, clean)

Build executable (click clean, click all)

Run executable

Run Debugger

Check into SVN (Team | Share Project)

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## Run make from command line

Open a terminal (Lizard | Applications | System | Terminal | Terminal Program (Konsole) )

Note: You can right click on the Terminal Program icon to copy the icon to your desktop

```
login@machine:> cd workspace\simple
login@machine:> ls
login@machine:> make
login@machine:> make clean
login@machine:> make
login@machine:> cd bin
login@machine:> ./simple
login@machine:> cd ..
login@machine:> bin/simple
login@machine:> exit
```

## **Commit to Subversion**

Make a change to simple.c

```
Change printer("GOODBYE WORLD"); to printer("GOODBYE CRUEL WORLD!");
```

Save file

Rebuild

Run

Right click simple.c | Team | Commit

Give meaningful commit message. Select OK.

## **Pull project out of Subversion**

File | Import | SVN | Checkout Projects from SVN | NEXT

Use existing repository location: NEXT

Select Project (simple) | NEXT

Project Name (simple2) | FINISH

Build

Run

## **Induce a Merge Conflict!**

In simple2, edit simple.c

```
Change printer("GOODBYE CRUEL WORLD!"); to printer("SEE YA LATER!");
```

Save file

Commit

In simple, edit simple.c

```
Change printer("GOODBYE CRUEL WORLD!"); to printer("BYE BYE");
```

Save file

Commit – should give conflict!

Right Click on file | Team | Update

Look for <<< >>>>

Fix the code

Right Click | Team | Mark Resolved

Commit!

Go back to simple2

Right click simple.c | Team | Update

## **Revert to previous version**

In simple, right click simple.c | Team | Replace with | Revision

Select revision

Copy All Non-Conflicting Changes from Right to Left

Right click Workspace File Pane | Save

Edit simple.c  
    add printer("New Commit!");

Commit

In simple2, right click simple.c | Team | Update

You should see your newest change.