

<u>Home</u> <u>Class Info</u> <u>Links</u> <u>Lectures</u> <u>Newsgrour</u> <u>Assignmen</u>

Xcode is a free integrated development environment (IDE) for C, C++, Java and other languages on MacOS X. It comes on the CD distributed with the Leopard edition of MacOS X.

Jump to Installing, Creating a project, Tips and traps.

## Requirements

You need to have XCode installed. It's best to have the current version. If you have Leopard, install XCode from the CD distributed with your machine. If you have an older version of MacOS X, or don't have your installer disk, see <u>these instructions</u> for downloading Xcode from Apple. <u>This chapter</u> has useful tips on what you can leave out.

- For Tiger, get Xcode Version 2.5.
- For Leopard or later, get Version 3.0 or later.

You need <u>CppUnit</u>. See <u>these instructions</u> for using MacPorts to get it. MacPorts will install CppUnit in the /opt/local directory. The example Makefile used below checks this directory.

<u>Download and test the example Makefile.</u> You need the directory and files from that test to do these instructions.

## How to Create a EECS 211 Console Project

The instructions below show how to build an EECS 211 console C++ project, using a Makefile. A console project is one that does all its input and output in a console window, e.g., a terminal window. Such programs are simple to set up, but a bit old-fashioned.

Start Xcode, click on the <b>File</b> menu, then on <b>New Project</b> . The New Project dialog box will appear. Select <b>Empty Project</b> , then click <b>Next</b> .	Assistant           New Project           Project           AppleScript Dopument-based Application           AppleScript Dopument-based Application           Carbon Application           Carbon Application           Carbon C++ Application           Core Application
	Cancel Previous Next







## **Tips and Traps**

**Learn the shorcuts.** This is a general tip for any development tool. After you've used your IDE a bit, learn to use the keyboard shortcuts for compiling and running and so on. This will speed up coding and testing a lot.

**Don't rename code files in the Finder.** This is a general tip for any development tool. Don't rename or delete files behind its back. The IDE can get very confused. Most IDEs provide their own commands for renaming and removing files, that rename or remove the file and also update the IDE's internal records.

**Watch your head(er)!** When you tell XCode to create a new C++ file, it automatically creates a header file too. That's fine because header files are good. But XCode opens the header file not the .cpp file. Many students accidentally put their C++ code into the header file, thinking they're putting it in the .cpp file.

Why can't it find my file? If your program needs to read a data file, you have to tell XCode where to look. Select **Project | Edit Active Executable** to get the **Executable Info** dialog box, and set the working directory as shown to the directory that contains your data file(s).

	General Arguments Debugging Comments	
Name:	Executable	
Path:	/Users/riesbeck/CS211/movies/movies.exe	Choose
Full Path:	/Users/riesbeck/CS211/movies/movies.exe	
Path Type:	Absolute Path	



Build Products directory	
O Project directory	
<ul> <li>Custom directory</li> </ul>	Choose
/Users/riesbeck/CS211/movies	