



our first c++ program: hello world • typical first program in any language • output only (no input) /\*\* \* hello.cpp, 31aug2010/e.sklar \* \* this program demonstrates output from a C++ application. \* \*/ #include <iostream> using namespace std; int main() { cout << "hello world!\n"; } // end of main()



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using an IDE

- Code::Blocks is an IDE an "Integrated Development Environment".
- There are many IDE's available.
- **XCode** comes standard on the Mac with OSX.
- Code::Blocks is free and can be used on both Mac and Windows (and Linux).
- Eclipse is a sophisticated and complex IDE that can be used with many different languages and is used in many workplaces.
- Code::Blocks is a good place to start using an IDE. It is installed on the lab computers and in the W.E.B.
- If you will be working on a Mac at home, my recommendation is to use XCode.
- If you will be working on a PC at home, my recommendation is to use Code::Blocks.

## file system

- It is important to understand the how files are stored on your computer.
- You need to know what is stored *locally* (e.g., on your machine's hard drive) and what is stored *remotely* (e.g., on an email server).
- You also need to understand that local storage can either be on your machine's hard drive or on a removable drive, like a USB flash drive.
- The computer's *file system* defines how the computer can locate files.
- Using an IDE can make it confusing, so be careful to know where the files you create in your IDE are stored on your computer's file system.
- Files are organized into folders.
- Files are categorized according to type.
- The C++ files you write are called *source code* files. The file system interprets these as *plain text* files.
- Another type of file is a *binary* file. These are files that either require some special software to view them (e.g., Microsoft Word docs) or they are *executable applications* themselves.

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• Note that binary executable files are specific to the com	puter architecture and operating
system on which it was compiled.	
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variations on hello world	
• add another line of output:	
<pre>#include <iostream> using namespace std;</iostream></pre>	
<pre>int main() {    cout &lt;&lt; "hello world!\n";    cout &lt;&lt; "do you like my hat?\n"; } // end of main()</pre>	
• use endl instead of \n:	
<pre>#include <iostream> using namespace std;</iostream></pre>	
<pre>int main() {    cout &lt;&lt; "hello world!" &lt;&lt; endl; } // end of main()</pre>	
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