

components of hello.cpp

• cout

- this is called a *method*
- it is a standard part of the C++ language
- it produces output on the computer screen
- arguments
 - also called *parameters*
 - those things that follow cout
 - << followed by a *string*, i.e., text in double quotes (")
 - escape sequences: n, t
 - tell cout what to write on the screen

example

cout << "jingle bells\n";</pre>

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3. RUN/TEST

- From inside the Terminal window, type the following:
- student\$./hello
- You should see the text that follows "cout", i.e., hello world
- Now play with it!
 - Go back to the EDIT step and change the message that your program displays
 - Each time you make a change, save your program and exit pico; compile it using g++and run it.
 - Don't make too many changes at once-always compile and test every little step. That way, you are more assured of maintaining code that runs :-)
 - Try adding another line with another "cout" command
 - Try deleting the n characters

let's try it! 1. EDIT • Open the Terminal application (this should be in your dock...) • At the "bash" prompt (probably looks like student\$), type: student\$ pico hello.cpp (*pico* is a "text editor") • Type in the code for the "hello world" program (be mindful of punctuation and spelling and letter case!) • Click on the **ctrl** and **X** keys at the same time to save your program and exit pico 2. COMPILE • At the "bash" prompt (probably looks like student\$), type: student\$ g++ hello.cpp -o hello • Are there any error messages? If yes, then go back to EDIT and fix them; then do the above step again • When your code is error free, you are ready to run your program!

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using an IDE

- an IDE is an "Integrated Development Environment"
- an IDE puts these steps together in one application
- there are many IDE's available
- XCode comes standard on the Mac with OSX
- CodeBlocks is free and can be used on both Mac and Windows (and Linux)
- we have both installed on the lab computers
- 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 CodeBlocks
- you can also just continue to use pico and the Terminal command line, as above (that's what I do!)¹

¹On Windows, I think the equivalent of pico is called "edit", but I'll have to verify that..

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