Compiler Specific Topics

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Command Line Arguments

The main function should really be:

```
int main(int argc, char* argv[])
{
    return 0;
}
```

- Used when someone passes in parameters from the command prompt
- > Small.exe -g Hello 12
- > g++ a.cpp b.cpp
- Not a common technique these days
- argv[] is an old (C-style) way to do a collection
- char* is an old (C-style) way to do a string
- argc is the count of how many arguments were passed

Visual Studio

- Pre compiled headers
 - □ stdafx.h is the default name
- Code that can support Unicode or non-Unicode with the flip of a switch
 - □ _t
- Extra files
 - targetver.h
 - □ ReadMe.txt
- #pragma once

g++ and Other Compilers

Make files

- Can save typing a lot of file names and options
- Can shorten build times by building only changed files
- You maintain them by hand

Make is actually a separate tool that calls your compiler

 Therefore it works with any compiler that can be called from a command line

You may need to pass an option to specify C++ 11

- MinGW 10.2 and up has C++11 as default
- Check the documentation for the compiler you're using

Summary

- Simple examples from textbooks aren't exactly like the code you meet in the real world
- Visual Studio generates projects for you and adds files you can remove or ignore when you're making a console application
- Many compiler distributions include the make utility to keep your build times to the minimum