1 C++: A simple program

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Outline

- Source Code
- IDE and compiler interaction
- Compiling and Running (no IDE)
- Debugging (no IDE)
- · Compiling, Running and Debugging with IDE

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Source Code - hello.cpp

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Something Different-header files

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6 IDE and compiler interaction

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8 Compilers

see https://en.wikipedia.org/wiki/List_of_compilers#C.2B.2B_compilers

9 Getting a compiler

- Visual C++ comes with MS compiler, see Readings
- •GCC depends on OS
 - Linux install build essentials to get GCC

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Outline

- Source Code
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16 Compiling/Linking – Example 2

- Compiling and Running (no IDE)
- Debugging (no IDE)
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18 Debugging



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20 Compiling/Linking – Using an IDE

- · Let Integrated Development Environment (IDE) handle all details
- (build settings still there just using default project settings)

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- •Create C++ project
- •Copy 3 files from example 2 to it
- Build it
- Here are some key shortcuts

21 Running

- Its an Executable! (no virtual machine)
- Can run from command line or IDE
- Fast Demo Various bits of IDE

22 What have we learned

- •C++ has lots of similarities to Java (more as we go)
- How to write a simple C++ program
- · How to compile using command line
- How to use an IDE to create a program
- For this class and most likely professionally, let the IDE manage your builds.
- Basic IDE usage (Debug/release build, variables, breakpoints etc)
- How to run a program
- PRACTICE PLEASE

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