CSCI 390 – Special Topics in C++

Lecture 1

8/21/18

Instructor

- David Troendle

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- Office Hours:

  - 7:00AM – 7:45AM and 9:30AM – 11:00 AM T,Th

  - Any other time by appointment using Skype/Teamviewwer

Class Info

- Venue: Weir Hall, Room 235

- Time: 8:00AM – 9:15AM T, Th

- Resources: Blackboard

Class Objective

- At course completion you will be a competent C++11 programmer.

- Your objectives:
  - Already know C++ (and needed and easy A)
  - I see C++ as an important skill:
    - For my senior project
    - For my internship
    - For a job interview
    - For graduate school
    - Other?
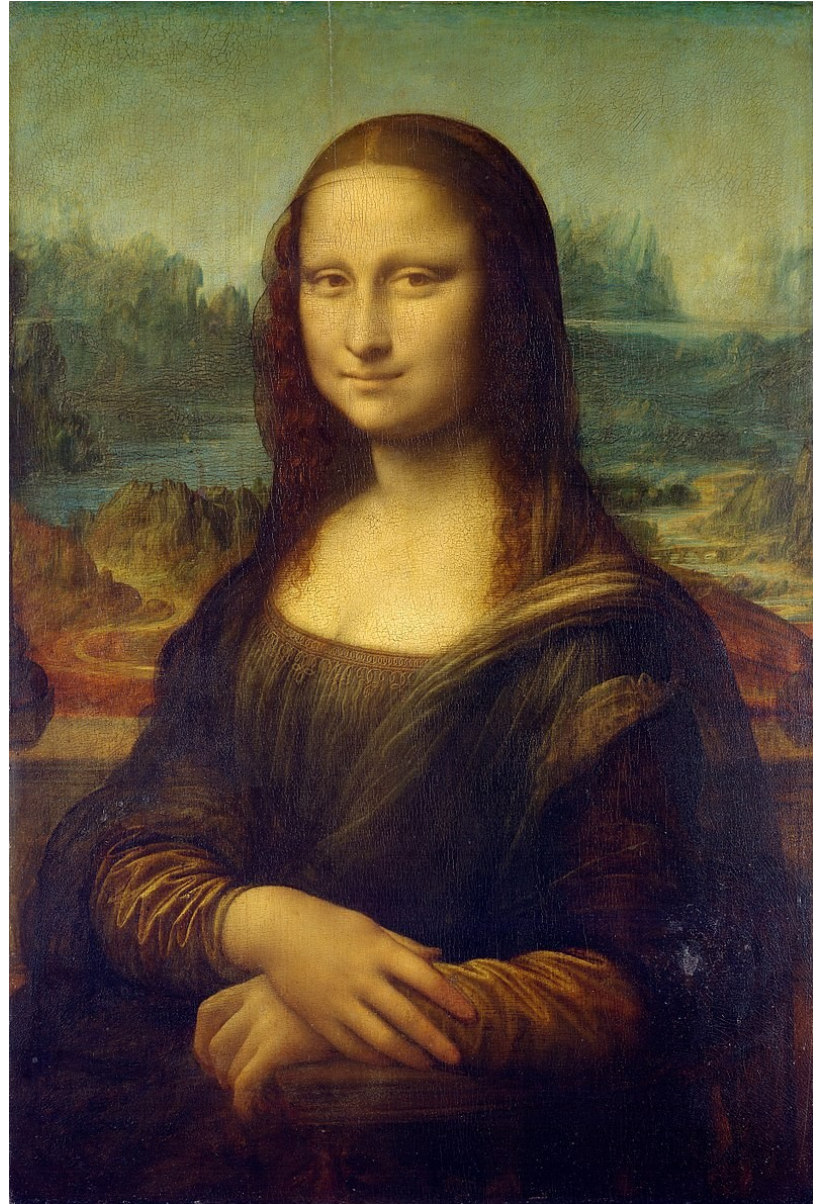 - Needed a course and this was open

Pedagogy

- Already know how to program in some language

- Taught as a skills course

  - Let's talk about human cognition

Recognize This?

$$\frac{S \mid A}{T \mid C}$$
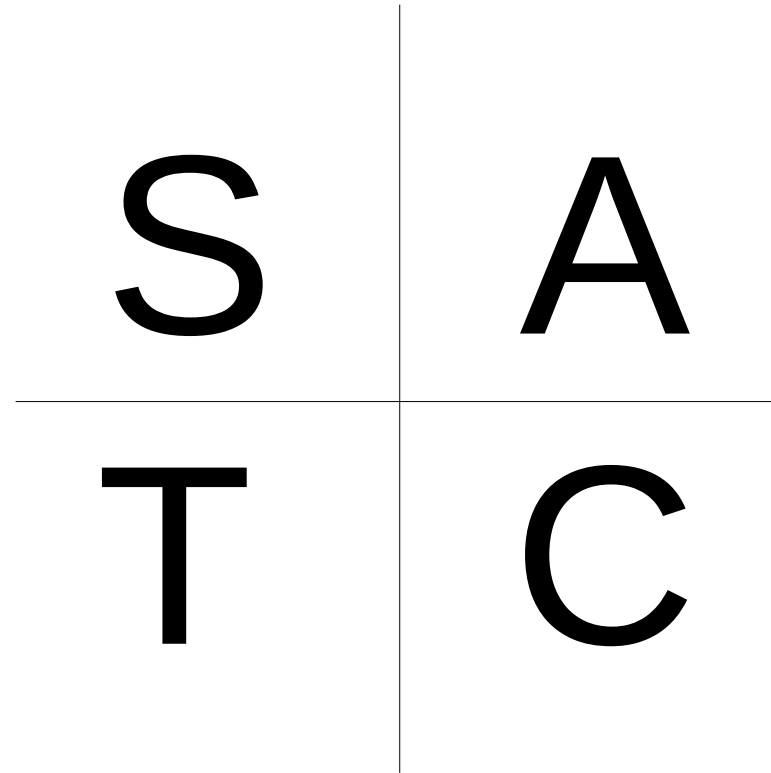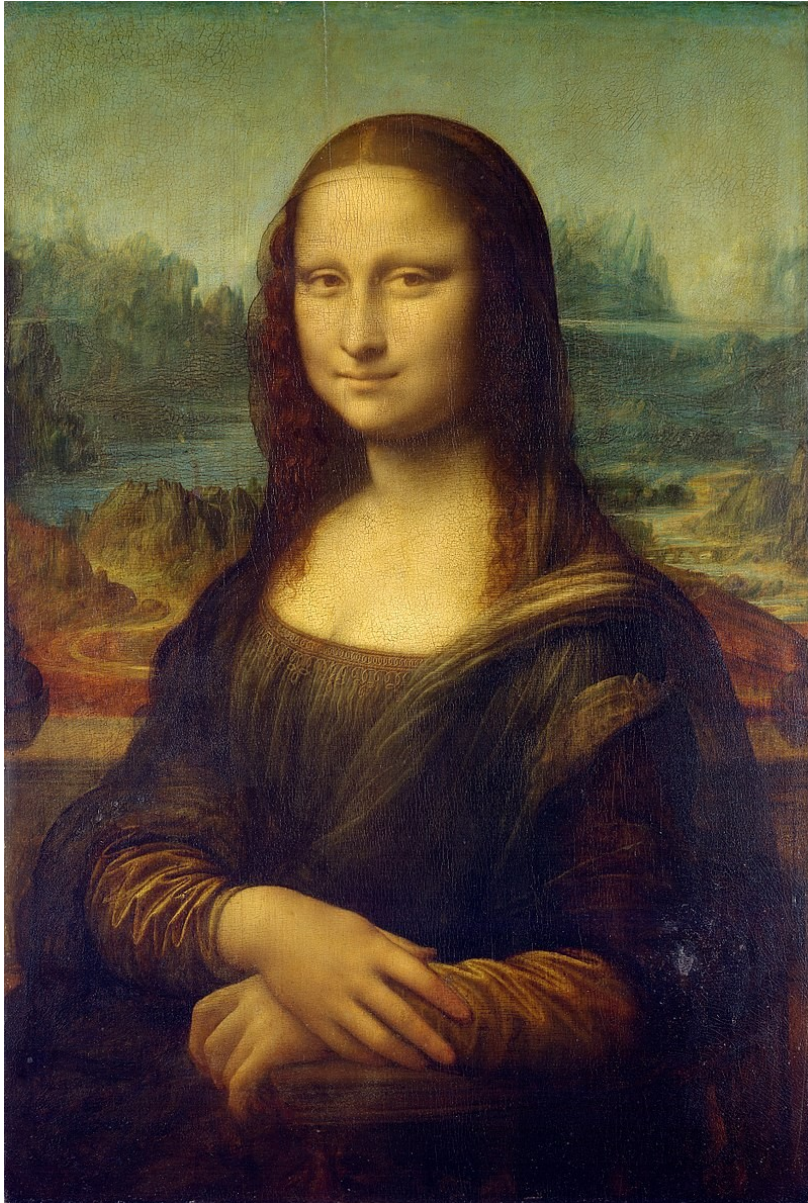
San Antonio Transit Company

What About This?

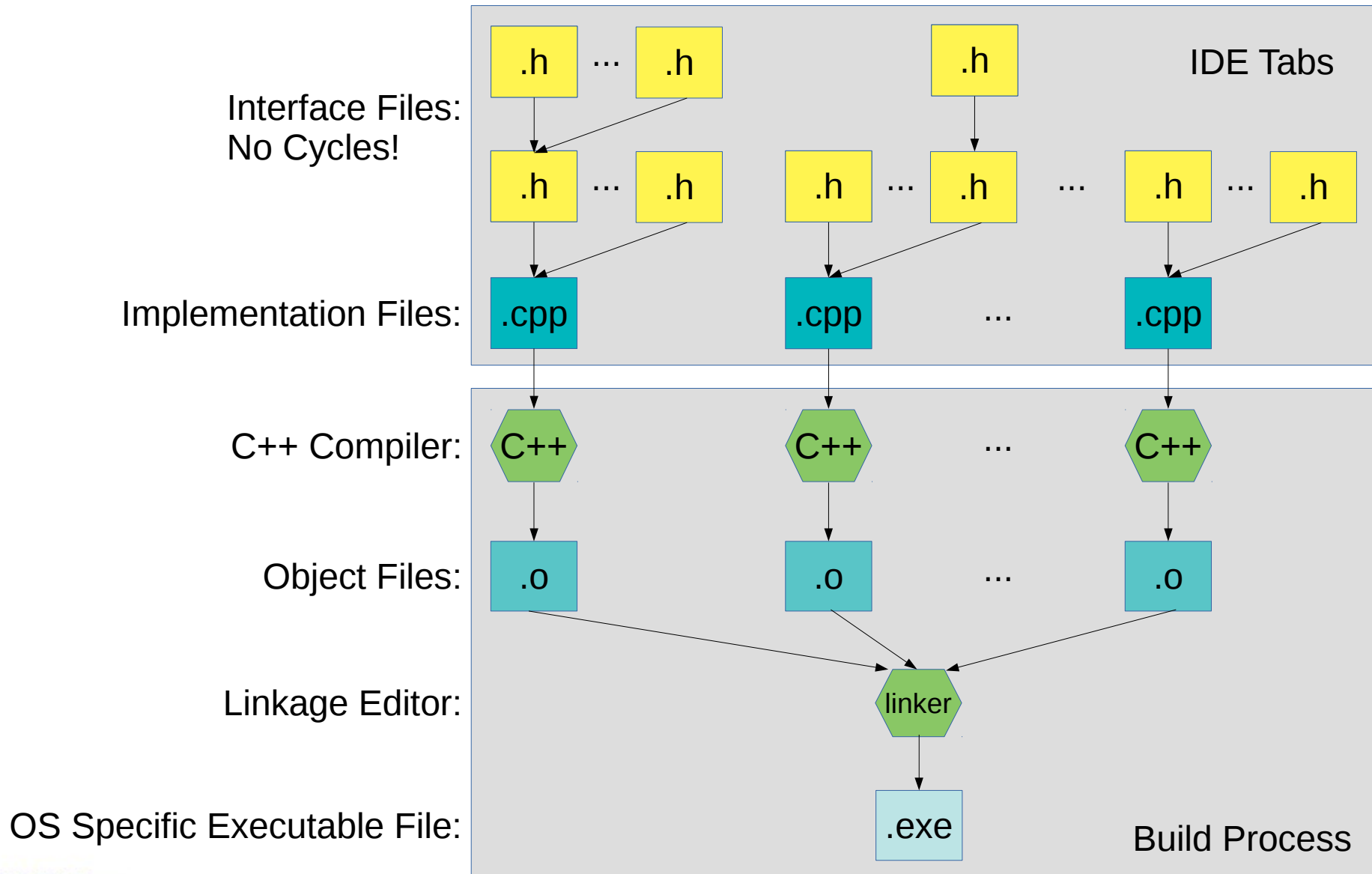# What About Monkey Lisa?

What About Baby Lisa?

Basic Compilation Unit

Interface File(s):
No Cycles!

.h ... .h

via include

.h ... .h

Implementation File: .cpp

IDE Tabs

C++ Compiler: C++

Object File: .o

Build Process

Linkage Editor: linker

OS Specific Executable File: .exe
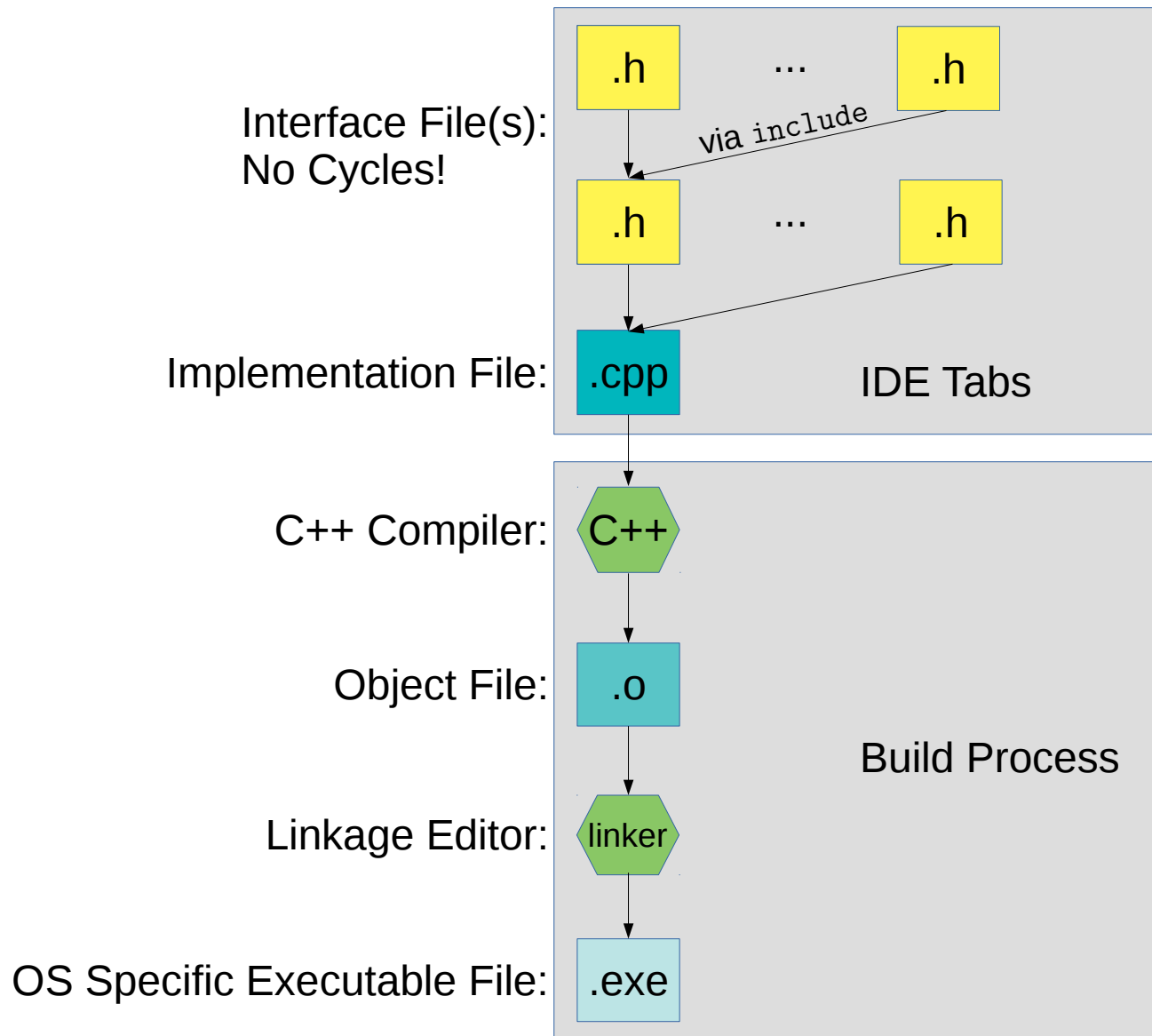
Typical Class Compilation Unit

Interface Files:

Implementation Files:

C++ Compiler:

Object Files:

Linkage Editor:

OS Specific Executable File:

IDE Tabs

Helper.h

main.cpp   Helper.cpp

C++   C++

main.o   Helper.o

linker

Helper

Build Process
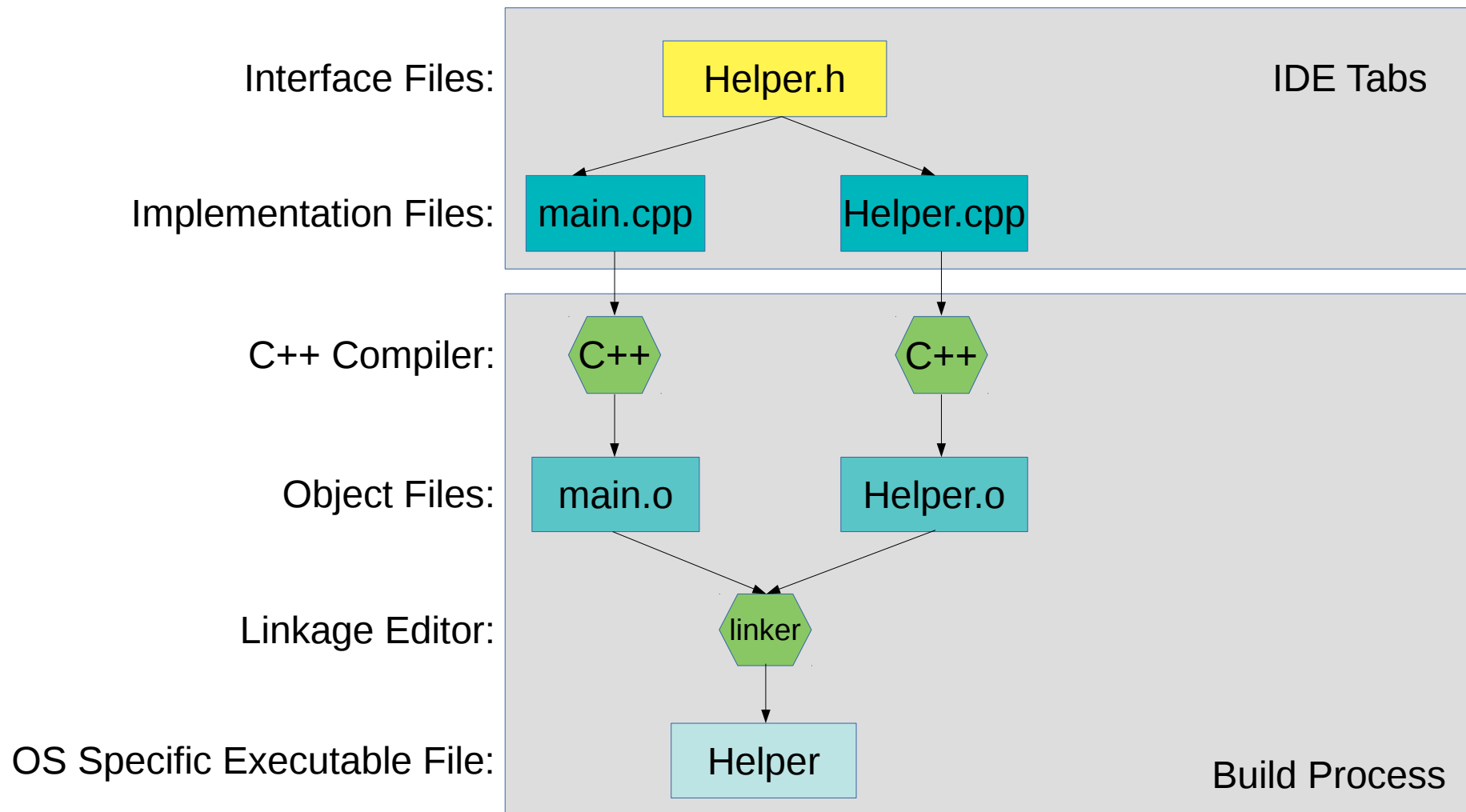
Large Compilation Unit

Getting Help

- Read and try to understand the error from the perspective of the compiler/linker

- Google

- https://en.cppreference.com

- http://www.cplusplus.com