CS 103000
Prof. Madeline Blount

Week 1

ATTENDANCE:

https://cs103-proton.glitch.me/

Dall-E 2: cats learning C++ in the forest on '90's technology

MA

Help me write a "hello world" program in C++

c

Copy code

```c
#include <iostream>

int main() {
  std::cout << "Hello, World!" << std::endl;
  return 0;
}
```

MA

What does iostream refer to in that program?

"iostream" is a standard C++ library that provides input/output functionality, including the `cout` object used in the "Hello, World!" program.

MA

Write me a program that outputs "hello world" in C++

c

Copy code

```c
#include <iostream>

int main() {
  std::cout << "Hello, World!" << std::endl;
  return 0;
}
```

PYTHON:

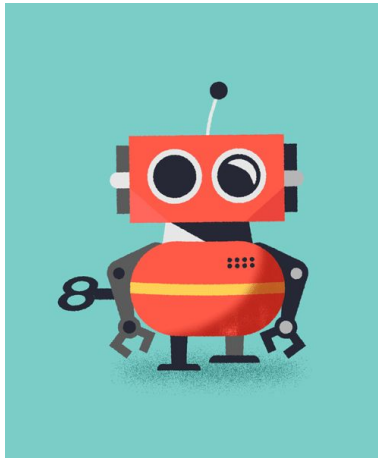
```
print(“You saw “ + birdCount + “ birds.”)
```

```
#include <iostream>
using namespace std;
cout << "You saw " << birdCount << " birds." << endl;
```

source code (C++)

```cpp
#include <iostream>

int main() {
  std::cout << "Hello, Worl
  return 0;
}
```



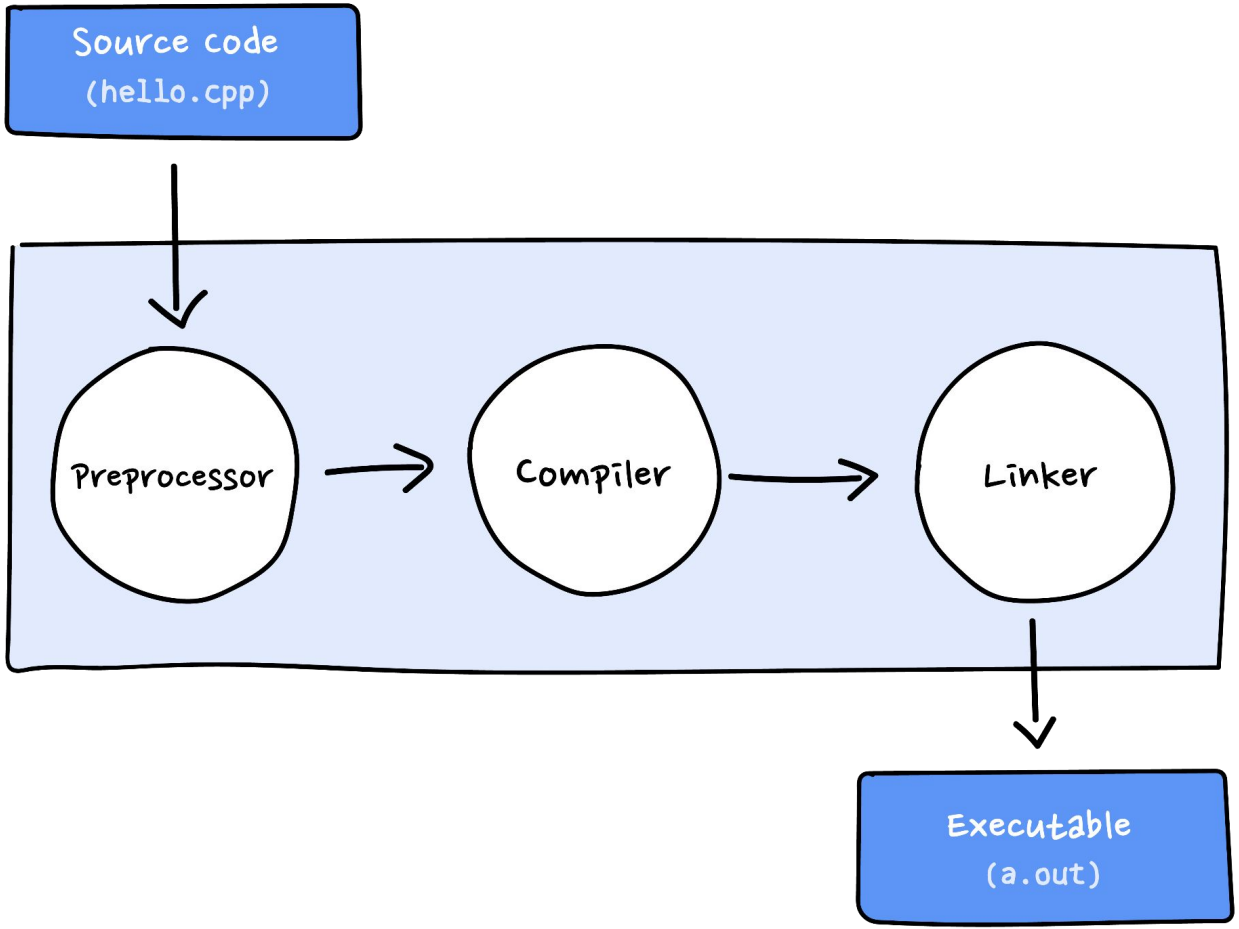
PREPROCESSOR
COMPILER
LINKER

- **#include …**
- **line by line**

machine code

```
10100011
10100101
10100101
10011111
```

binary


Source code
(hello.cpp)
Preprocessor
Compiler
Linker
Executable
(a.out)

THE #1 PROGRAMMER EXCUSE FOR LEGITIMATELY SLACKING OFF:
"MY CODE'S COMPILING."
HEY! GET BACK TO WORK!
COMPILING!
OH. CARRY ON.

00010111

10010001

15

81