C++

Why Learn C++

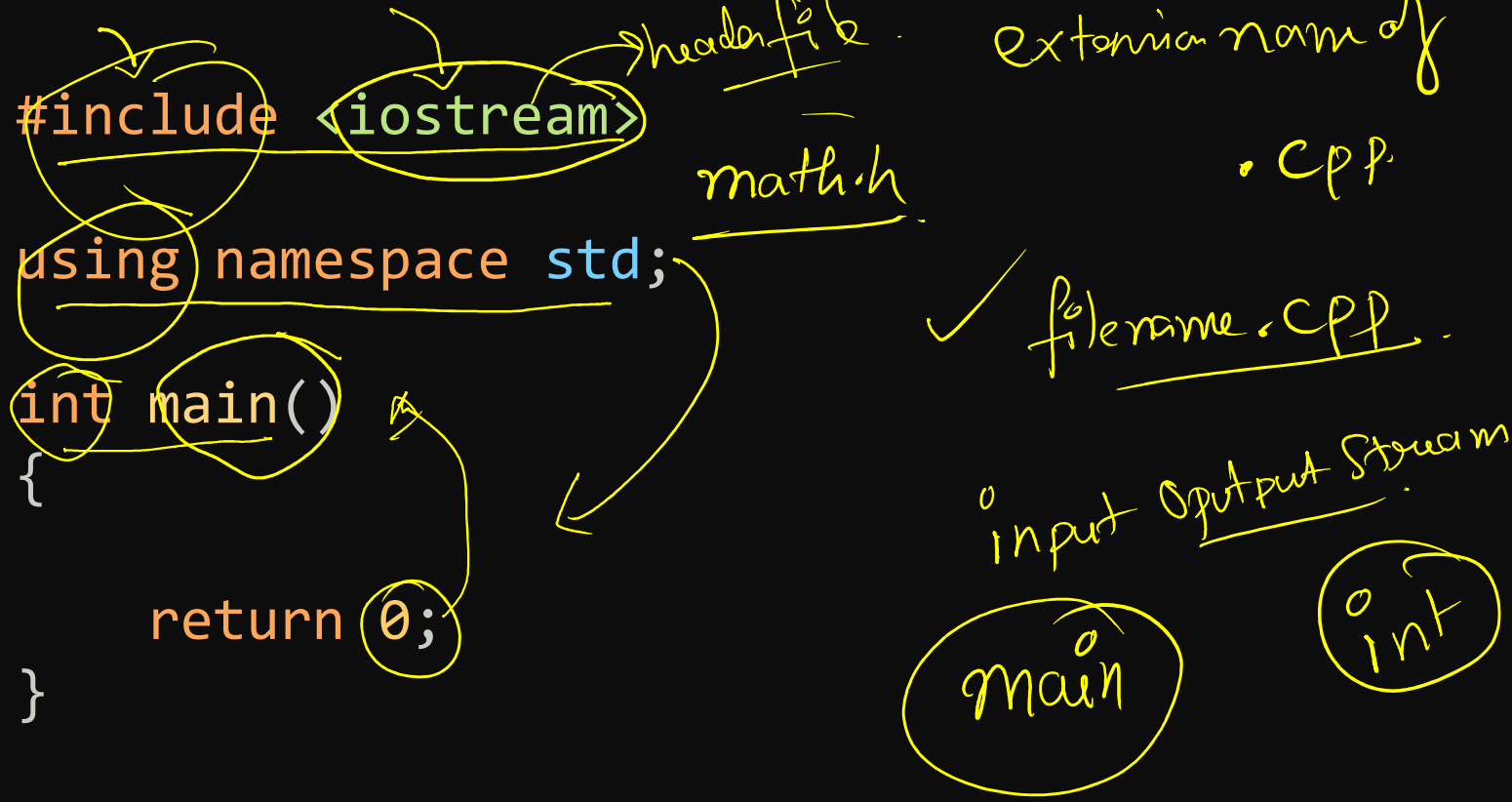
Some of the Great Projects Made in C++ are :-

- Adobe Photoshop & Illustrator
- Spotify
- YouTube
- Windows OS
- Node.js
- Microsoft Office

driven Code

Structure of a C++ Program

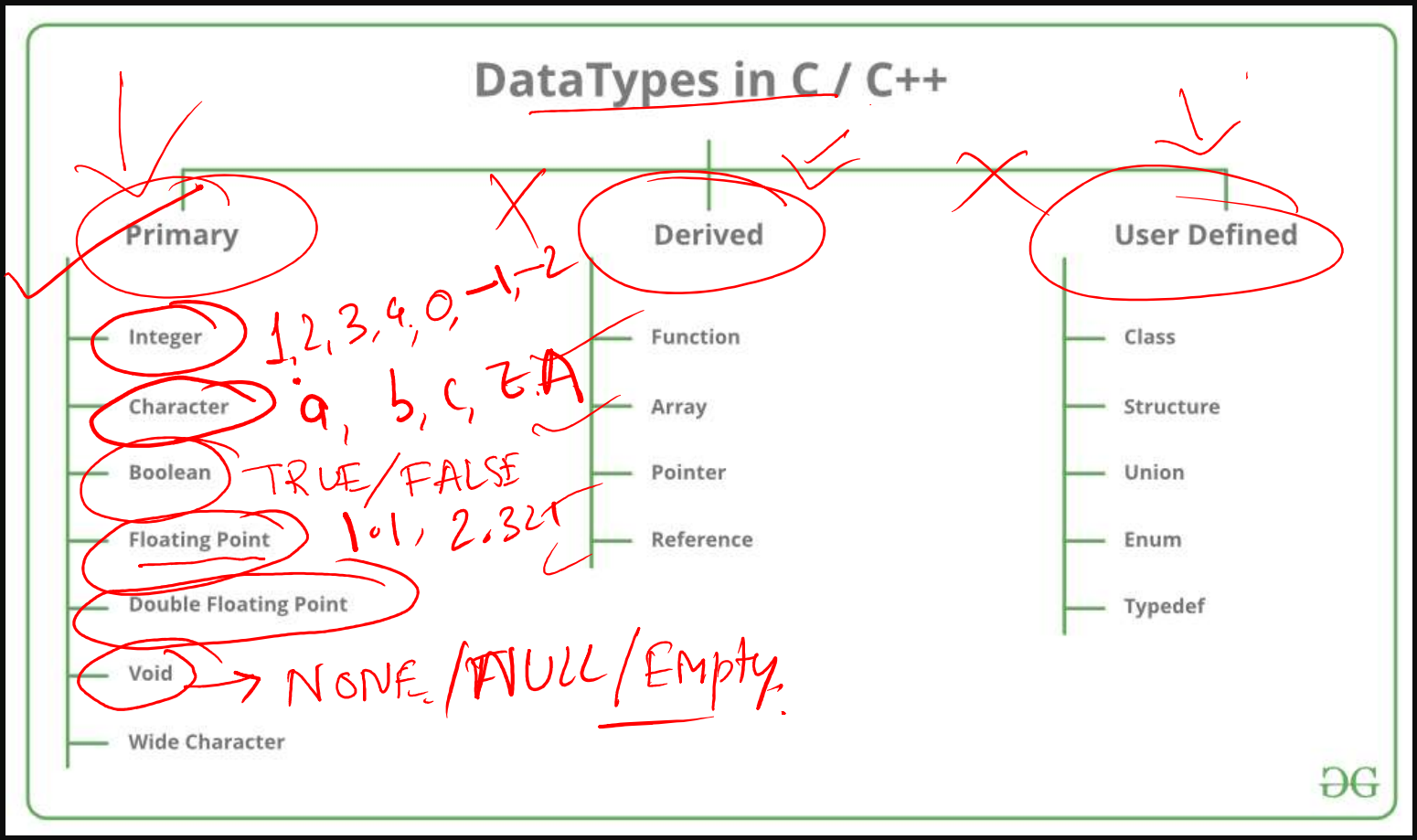
```
#include <iostream>

using namespace std;

int main()
{

    return 0;
}
```



What are Keywords?

Keywords (also known as **reserved words**) have special meaning to the C++ compiler and are always written or typed in short(lower) cases. Keywords are words that the language uses for a special purpose

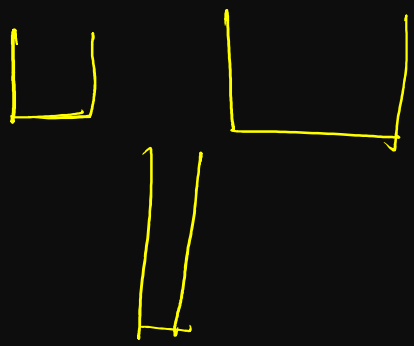
Learning About Data-Types and Variables



Variables.

- ↳ input
- ↳ Output
- ↳ processing
- ↳ Update

① → Output
② input
③ Proces
④ Updati



integer, float, double, characte

Writing Hello World Program

```cpp
#include <iostream>

using namespace std;

int main()
{
    cout << "Hello World!";

    return 0;
}
```

Comments

Single Line Comments

```
// I'm a Single Line Comment
```

Multi-Line Comments

```
/*
This
is
a
Multi-Line
Comment
*/
```

Escape Sequences

Escape sequence	Description
\'	single quote
\"	double quote
\?	question mark
\\	backslash
\b	backspace
\n	line feed - new line
\r	carriage return
\t	horizontal tab

Operators

1. Arithmetic Operators
2. Assignment Operators
3. Relational Operators
4. Logical Operators
5. Bitwise Operators
6. Other Operators

Arithmetic Operators

Operator	Operation
+	Addition
-	Subtraction
*	Multiplication
/	Division
%	Modulo Operation (Remainder after division)