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\* C++ Programming Notes

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**Preset:**

* Invented by Bjarne Stroustrup in 1979
* Middle Level Language
* Versions: C++ 14, C++11, C++99

**Hello World:**

#include <iostream>

using namespace std;

int imGlobal = 0;

const double PI = 3.141;

int main(int argc, char\*\*argv) {

cout << "Hello World\n";

return 0;

}

* Namespaces
* main: Start executing from here
* Cout allows us to output information to console
* “<<” Stream insertion operator: Takes string on the right to cout stream
* “endl” Issue newline and force write to console
* argc: No of arguments passed to main
* argv: Array of pointers to strings in the arg vector
* int: Return an integer when done executing
* imGlobal: Global variable and accessible everywhere else.
* const double PI: Global variable whose value cannot be changed anywhere else

**Comments:**

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Multi

Line

Comment

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// Single Line Comment

**Common Header files:**

* #include <cstdlib> // Sorting, Searching, import c libraries, rand, memmgmt, and other general-purpose functions
* #include <iostream> // Read and Write data
* #include <string> // Work with strings
* #include <limits> // Min and max values
* #include <vector> // Work with vectors
* #include <sstream> // Work with string streams
* #include <numeric> // Work with sequences of values
* #include <ctime> // Work with time
* #include <cmath> //Common math functions