

**BEFORE STARTING THIS BONUS DOCUMENT ,  
MAKE SURE MYCAPTAIN APPLICATION COURSE  
MODULES ARE COMPLETED AND QUESTIONS ARE  
SUBMITTED AS THAT WILL BE GRADED AND  
ACCORDINGLY LOR AND CERTIFICATES WILL  
BE AWARDED Also THESE all videos and  
notes are not owned by me .I have  
picked them from the INTERNET.**

**:private and :protected (EXAMPLES)**

<https://www.geeksforgeeks.org/difference-between-private-and-protected-in-c-with-example/>

<https://www.programiz.com/cpp-programming/public-protected-private-inheritance>

<https://stackoverflow.com/questions/224966/private-and-protected-members-c>

**static keyword in c++**

<https://www.cprogramming.com/tutorial/statickeyword.html>

<https://www.javatpoint.com/cpp-static>

<https://stackoverflow.com/questions/15235526/the-static-keyword-and-its-various-uses-in-c>

**Compile time vs run time**

<https://stackoverflow.com/questions/846103/runtime-vs-compile-time>

<http://net-informations.com/python/iq/checking.htm>

<https://www.geeksforgeeks.org/difference-between-compile-time-errors-and-runtime-errors/>

**Run Time Polymorphism and Virtual Functions**

<https://www.softwaretestinghelp.com/runtime-polymorphism-in-cpp/>

<https://www.geeksforgeeks.org/virtual-functions-and-runtime-polymorphism-in-c-set-1-introduction/>

<https://www.studytonight.com/cpp/virtual-functions.php>

**Virtual Functions in C++**

<https://stackoverflow.com/questions/8776507/difference-between-calling-of-virtual-function-and-non-virtual-function>

<https://www.geeksforgeeks.org/happens-virtual-function-called-inside-non-virtual-function/>

<https://www.geeksforgeeks.org/virtual-function-cpp/>

### **Vector in C++**

<https://www.bitdegree.org/learn/c-plus-plus-vector>

<https://www.geeksforgeeks.org/vector-in-cpp-stl/>

[https://www.youtube.com/watch?v=SGyutdso6\\_c](https://www.youtube.com/watch?v=SGyutdso6_c)

### **C++ STL**

[https://www.youtube.com/watch?v=rhj\\_9R599kQ](https://www.youtube.com/watch?v=rhj_9R599kQ)

<https://www.youtube.com/watch?v=g-1Cn3ccwXY>

<https://www.youtube.com/watch?v=bFSnXNIsK4A>

### **C++ Graphics**

[https://www.youtube.com/watch?v=mj1JIQdC5tQ&list=RDQMMI3Fw6PAsC0&start\\_radio=1](https://www.youtube.com/watch?v=mj1JIQdC5tQ&list=RDQMMI3Fw6PAsC0&start_radio=1)

<https://www.youtube.com/watch?v=TEMhWt9WwTA>

### **Linked List in C++**

[https://www.youtube.com/watch?v=vcQIFT79\\_50](https://www.youtube.com/watch?v=vcQIFT79_50)

<https://www.youtube.com/watch?v=lJrQCCmuaqc>

<https://www.youtube.com/watch?v=NgdwfP7K5n8>

<https://www.youtube.com/watch?v=mDt53JLj8sM>

<https://www.youtube.com/watch?v=2HqPxU0DBZo>

<https://www.youtube.com/watch?v=yTIZFbolZO4>

<https://www.youtube.com/watch?v=MXEiYJGB0nk>

<https://www.youtube.com/watch?v=nIPkg4NkPVY>

### **Graphs in C++**

<https://www.youtube.com/watch?v=xyJxCjweLKE&list=PLfBJIB6T2eOu3dTPKzvAf2axImQUXGY91>

[https://www.youtube.com/watch?v=09\\_LIHjoEiY](https://www.youtube.com/watch?v=09_LIHjoEiY)

### **File Handling in C++**

<https://www.youtube.com/watch?v=TF2-F2duY6c>

<https://www.youtube.com/watch?v=zLixeb0IG1E>

[https://www.youtube.com/watch?v=3EMq\\_ttyyGQ](https://www.youtube.com/watch?v=3EMq_ttyyGQ)

### **Exception Handling in C++**

<https://www.geeksforgeeks.org/exception-handling-c/> (Basic)

<https://www.javatpoint.com/cpp-exception-handling> (Basic)

<https://docs.microsoft.com/en-us/cpp/cpp/errors-and-exception-handling-modern-cpp?view=vs-2019> (Intermediate)

<https://stackoverflow.com/questions/10925675/c-exception-handling> (Intermediate)  
<https://stackoverflow.com/questions/315948/c-catching-all-exceptions> (Intermediate)  
<https://isocpp.org/wiki/faq/exceptions> (FAQs)

<https://www.youtube.com/watch?v=EyXXLpFriMc&t=13s> (video lecture basic)  
<https://www.youtube.com/watch?v=asekOytwNw4> (video lecture intermediate)  
<https://www.youtube.com/watch?v=W6jZKibuJpU> (video lecture advanced)

how can we create our own libraries in c++? and how to import different libraries in c++?

<https://www.bogotobogo.com/cplusplus/libraries.php>  
<https://docs.microsoft.com/en-us/cpp/build/walkthrough-creating-and-using-a-static-library-cpp?view=vs-2019>  
<https://stackoverflow.com/questions/16693273/how-do-i-create-a-library>  
<https://stackoverflow.com/questions/39430819/how-to-write-a-class-library-in-c-like-the-one-we-write-for-functions>  
[https://www.cs.swarthmore.edu/~newhall/unixhelp/howto\\_C\\_libraries.html](https://www.cs.swarthmore.edu/~newhall/unixhelp/howto_C_libraries.html)  
<https://www.cs.dartmouth.edu/~campbell/cs50/buildlib.html>

Accessing Multi Dimensional Arrays with Pointers

<https://www.youtube.com/watch?v=J1aQ9JN4vZY&t=2s> (basic 2D array concept)

<https://www.geeksforgeeks.org/multidimensional-pointer-arithmetic-in-c/>  
<https://stackoverflow.com/questions/13554244/how-to-use-pointer-expressions-to-access-elements-of-a-two-dimensional-array-in>

<https://www.youtube.com/watch?v=sHcnvZA2u88>  
<https://www.youtube.com/watch?v=ICDGo7rK3ms>  
<https://www.youtube.com/watch?v=868qXWoGS9E>

What are 3 D arrays

<https://www.youtube.com/watch?v=bbkdiUbou74>

**Also , on popular demand is another set of talks for you to watch .**

Steve Jobs' 2005 Stanford Commencement Address

<https://www.youtube.com/watch?v=UF8uR6Z6KLc>

Kevlin Henney - Seven Ineffective Coding Habits of Many Programmers

<https://www.youtube.com/watch?v=ZsHMHukIJY>

Indian Girls Code | Aditi Prasad | TEDxChennai  
<https://www.youtube.com/watch?v=86O2khAeO5I>

