LearnCpp.com is a free website devoted to teaching you how to program in C++. Whether you've had any prior programming experience or not, the tutorials on this site will walk you through all the steps to write, compile, and debug your C++ programs, all with plenty of examples.

Becoming an expert won't happen overnight, but with a little patience, you'll get there. And LearnCpp.com will show you the way.

Having trouble remembering where you saw something? Not sure where to find something? Use our **site index** to find what you're looking for!

6.7		External linkage
6.8		Global constants and inline variables
6.9	Updated	Why global variables are evil
6.10		Static local variables
6.11	Updated	Scope, duration, and linkage summary
6.12		Using statements
6.13	Updated	Typedefs and type aliases
6.14		The auto keyword
6.15	Updated	Implicit type conversion (coercion)
6.16		Explicit type conversion (casting) and static_cast
6.17	Updated	Unnamed and inline namespaces
6.x		Chapter 6 summary and quiz

Please excuse the disjoint lesson numbering while we continue to update our tutorials.

Chapter S		Compound Types (originally chapter 4)
S.4.4b		An introduction to std::string
S.4.4c	New	Using a language reference
S.4.5		Enumerated types
S.4.5a	Updated	Enum classes
S.4.7		Structs
S.7.x	Updated	Chapter 7 summary and quiz

Chapter L		Control Flow (originally chapter 5)
L.5.1		Control flow introduction

P.6.9a		Dynamically allocating arrays
P.6.10		Pointers and const
P.6.11		Reference variables
P.6.11a		References and const
P.6.12		Member selection with pointers and references
P.6.12a		For-each loops
P.6.13		Void pointers
P.6.14		Pointers to pointers and dynamic multidimensional arrays
P.6.15		An introduction to std::array
P.6.16		An introduction to std::vector
P.6.17	New	Introduction to iterators
P.6.18		Introduction to standard library algorithms
P.6.x		Chapter P.6 comprehensive quiz

Chapter F		Functions (originally chapter 7)
F.7.1		Function parameters and arguments
F.7.2		Passing arguments by value
F.7.3		Passing arguments by reference
F.7.4		Passing arguments by address
F.7.4a		Returning values by value, reference, and address
F.7.5		Inline functions
F.7.6		Function overloading
F.7.7		Default arguments
F.7.8		Function Pointers