

C++ Control Flow

Ryan Baker

January 2, 2025

Contents

1	Functions	4
1.1	Function Arguments	4
1.2	Function Overloading	4
2	Scope	4
2.1	Types of Scope	4
2.1.1	Global Scope	4
2.1.2	Local Scope	4
2.1.3	Anonymous Scope	4
2.2	Namespaces	4
2.2.1	Namespace Operator ::	4
2.2.2	<code>using</code> Namespaces	4
3	Conditions and Branching	4
3.1	Boolean Statements	4
3.1.1	<code>bool()</code> Casts	4
3.1.2	Comparison Operators	4
3.1.3	Logical Operators	4
3.2	<code>if</code> Statements	4
3.2.1	The Overhead of <code>if</code> Statements	4
3.3	<code>switch</code> Statements	4
3.4	Ternary Operator ? :	4
4	Loops	4
4.1	<code>while</code> Loops	4
4.1.1	<code>do while</code> Loops	4
4.2	<code>for</code> Loops	4
4.2.1	Blank Fields	4

5	Control Flow Keywords	4
5.1	<code>break</code> Keyword	4
5.2	<code>continue</code> Keyword	4
5.3	<code>return</code> Keyword	4
5.4	<code>goto</code> Keyword	4

1 Functions

1.1 Function Arguments

1.2 Function Overloading

2 Scope

2.1 Types of Scope

2.1.1 Global Scope

2.1.2 Local Scope

2.1.3 Anonymous Scope

2.2 Namespaces

2.2.1 Namespace Operator ::

2.2.2 `using` Namespaces

3 Conditions and Branching

3.1 Boolean Statements

3.1.1 `bool()` Casts

3.1.2 Comparison Operators

3.1.3 Logical Operators

3.2 `if` Statements

3.2.1 The Overhead of `if` Statements

3.3 `switch` Statements

3.4 Ternary Operator `? :`

4 Loops

4.1 `while` Loops

4.1.1 `do while` Loops

4.2 `for` Loops

4.2.1 Blank Fields

5 Control Flow Keywords

5.1 `break` Keyword

5.2 `continue` Keyword

5.3 `return` Keyword

5.4 `goto` Keyword