

Introduction and Setup

Ryan Baker

January 15, 2025

Contents

1	Course Introduction	2
1.1	Lecture Series Overview	2
2	Introduction to C++	2
2.1	Why C++?	2
2.2	Evolution of C++	2
2.3	C++ vs. Other Languages	2
3	Environment Setup	2
3.1	Tools Required	2
3.1.1	Text Editor	2
3.1.2	Compiler	2
3.2	Installation Guides	2
3.3	"Hello, World!" Example	2
4	Basic Syntax and Structure	2
4.1	<code>int</code> <code>main()</code>	2
4.2	Semicolons, <code>/* comments */</code> , and Whitespace	2
5	Datatypes and Variables	2
5.1	<code>sizeof</code> Operator	2
5.2	Primitive Types	2
5.3	Declaration and Definition	2
5.3.1	Assignment Operator <code>=</code>	2
5.3.2	Brace Initialization <code>{}</code>	2
5.4	Arithmetic Operators <code>+</code> , <code>-</code> , <code>*</code> , <code>/</code> , <code>%</code>	2

1	Course Introduction
1.1	Lecture Series Overview
2	Introduction to C++
2.1	Why C++?
2.2	Evolution of C++
2.3	C++ vs. Other Languages
3	Environment Setup
3.1	Tools Required
3.1.1	Text Editor
3.1.2	Compiler
3.2	Installation Guides
3.3	"Hello, World!" Example
4	Basic Syntax and Structure
4.1	<code>int</code> <code>main()</code>
4.2	Semicolons, <code>/* comments */</code> , and Whitespace
5	Datatypes and Variables
5.1	<code>sizeof</code> Operator
5.2	Primitive Types
5.3	Declaration and Definition
5.3.1	Assignment Operator <code>=</code>
5.3.2	Brace Initialization <code>{}</code>
5.4	Arithmetic Operators <code>+</code> , <code>-</code> , <code>*</code> , <code>/</code> , <code>%</code>