C++ Reference Manual

A Comprehensive Guide

Your Name

January 2025

Table of Contents

Language 4
Basic concepts 4
Keywords 4
Expressions 4
Declarations 4
Initialization 4
Functions 4
Statements 4
Classes 4
Templates 4
Exceptions 4
Basic Concepts 4
Data Types 4
Fundamental Types 4
Appendix A: Vocabulary 5
Common Terms 5
Index 6

Language

This is a reference of the core C++ language constructs.

Basic concepts

Keywords

Expressions

Declarations

Initialization

Functions

Statements

Classes

Templates

Exceptions

Basic Concepts

Here's a basic example of C++ code:

```
int main() {
    std::cout << "Hello, World!" << std::endl;
    return 0;
}
```

Data Types

Fundamental Types

C++ provides several fundamental data types...

```
int number = 42;
double pi = 3.14159;
bool flag = true;
char letter = 'A';
```

Appendix A: Vocabulary

Common Terms

- **Pointer**: A variable that stores the memory address…
- **Reference**: An alias for an existing variable…
- **Constructor**: A special member function…

Index