

# C# Fundamentals

abelski

# Introduction

# History

- C++ was developed as an extension for C. It all started in Bell Labs by Bjarne Stroustrup in 1979.
- C++ was originally named 'C with Classes'. It was renamed C++ in 1983.

# Static Type Language

- C++ is a static type language. We should specify the type of each variable as well as the returned type of each function. The type of each value is checked during the compilation.

# Free Form Language

- C++ is a free form programming language. The positioning of characters in our source code page is not significant.

# Multi Paradigm Language

- C++ is a multi paradigm programming language. C++ supports more than one programming paradigm. Programmers can work in a variety of styles intermixing different styles and different constructs from different paradigms.
- Using C++ we can mix procedural code with object oriented one.

# Compiled Language

- When developing in C++ we use a compiler to compile our source code into an executable one.

# Hello World

- The following is a simple program written in C++ that prints "hello world" to the screen. The video clip explains how to use the QT IDE for compiling and running it.

```
#include <stdio.h>

int main(int argc, char *argv[])
{
    printf("hello");
}
```





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