Introduction to C++

Tools





Visual Studio

Integrated Development Environment

- Editor
- Compiler
- Debugger
- Related tools

Several editions

- Express (actually many Express versions)
 - http://www.microsoft.com/express/vc/
- Professional for individuals
- □ Premium for teams
- Ultimate top end features



Kinds of Applications

- C++ can be used to create a huge variety of applications
 - Windows apps (buttons and controls)
 - Console applications
 - Services
 - Servers
 - Libraries
- Console applications are the simplest
 - Write text to the screen
 - Read text from the keyboard
 - No graphics, no controls



Console Application Structure

// Hello.cpp: Defines the entry point for the console application.

```
#include "stdafx.h"
#include <iostream>
#include <string>
int _tmain(int argc, _TCHAR* argv[])
 std::cout << "Type your name" << std::endl;</pre>
 std::string name;
 std::cin >> name;
 std::cout << "Hello, " << name << std::endl;
 return 0;
```



Summary

- Visual C++ Express is a free tool for building C++ applications
 - You can use any version of Visual Studio
- Edit your code
 - Errors are pointed out as you go
- Build (compile and link)
- Run (with or without debugging)
- Console applications are the simplest to get started with

