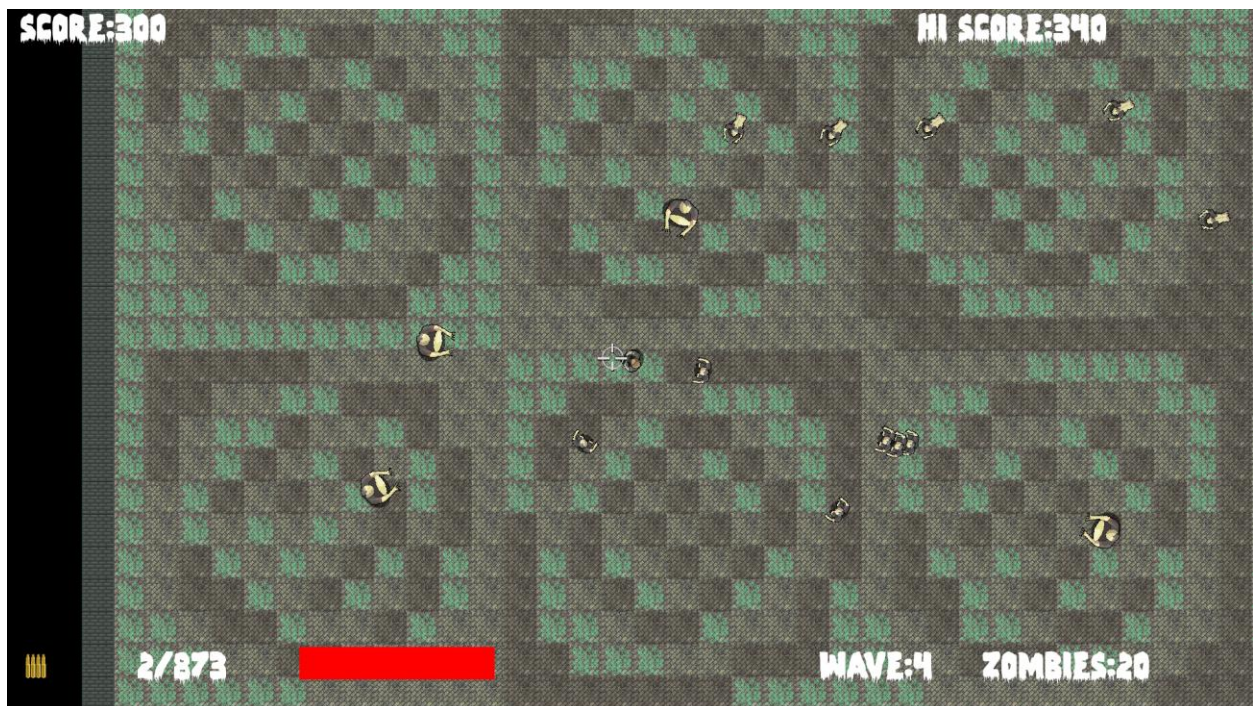
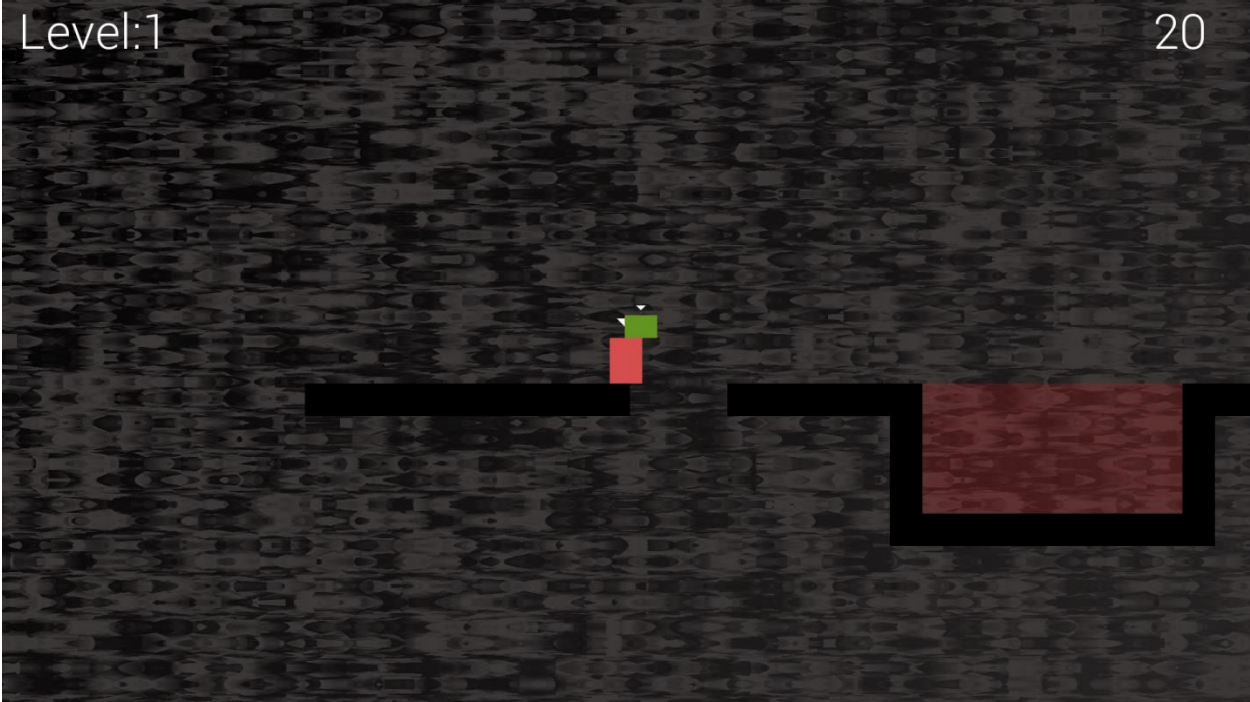


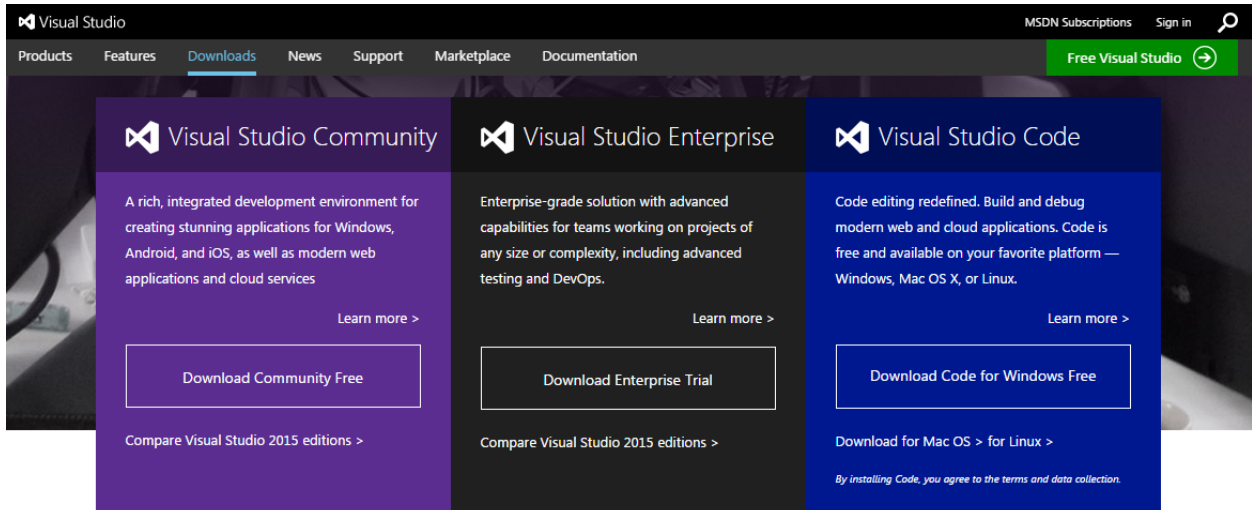
Chapter1: C++, SFML, Visual Studio and Starting the First Game



Level:1

20





Visual Studio downloads

Visual Studio 2015 — 1st Click

- Community 2015
- Enterprise 2015
- Professional 2015

Test Professional 2015

Express 2015 for Desktop — 2nd Click

- Express 2015 for Desktop
- Express 2015 for Web
- Express 2015 for Windows 10
- Visual Studio 2015 Update 1

[Team Foundation Server 2015](#)

[Visual Studio Code](#)

[Tools for Visual Studio 2015](#)

[Visual Studio 2013](#)

[Team Foundation Server 2013](#)

Visual Studio Express 2015 for Windows Desktop

Visual Studio Express for Windows Desktop lets you take full advantage of Windows with XAML designers, a productive IDE, and a variety of programming languages including C#, Visual Basic, and C++. Choose between Windows Presentation Foundation (WPF), Windows Forms, and Win32, to target the Windows desktop with the right technology for your application and your skills.

- [Release notes](#)
- [System requirements](#)
- [Compatibility](#)
- [SHA-1 values](#)

Choose language:

[Download](#)

[How to install files offline](#)

Visual Studio Express 2015 for Windows Desktop - English

3rd Click



Visual Studio



Express 2015 for Windows Desktop

Setup Completed!


All specified components have been installed successfully.


LAUNCH


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 **SFML 2.3.2**
Latest stable version

 **Bindings**
SFML in other languages

 **Git repository**
GitHub.com

 **Goodies**
Logos

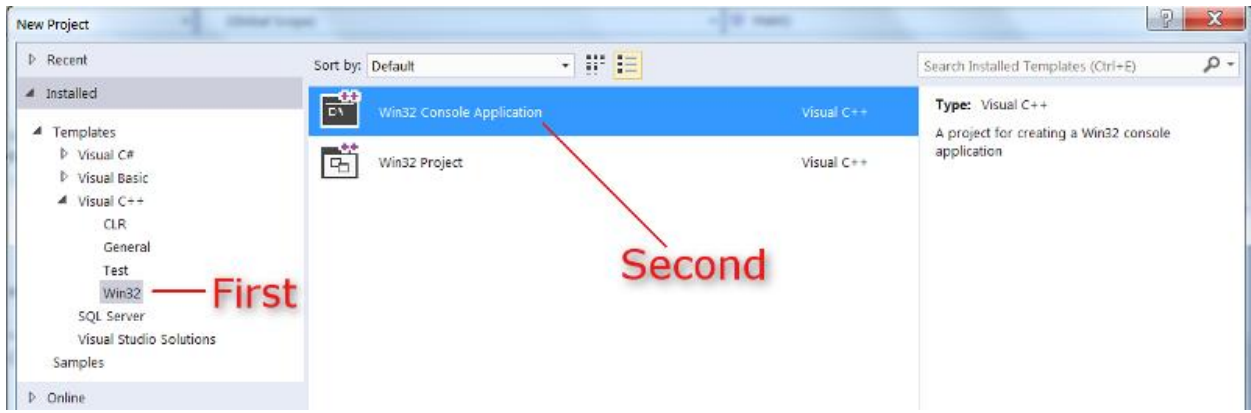
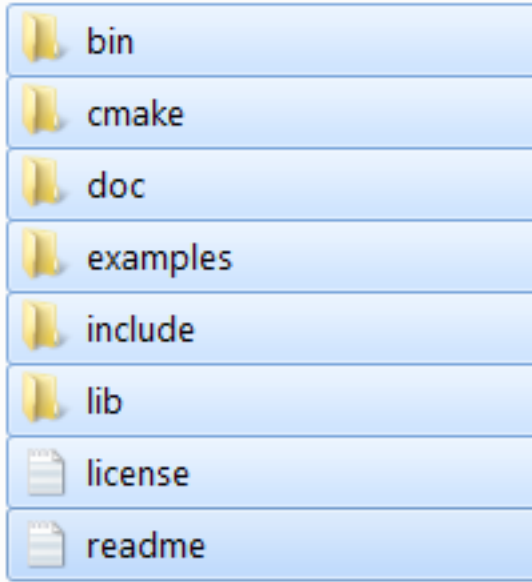
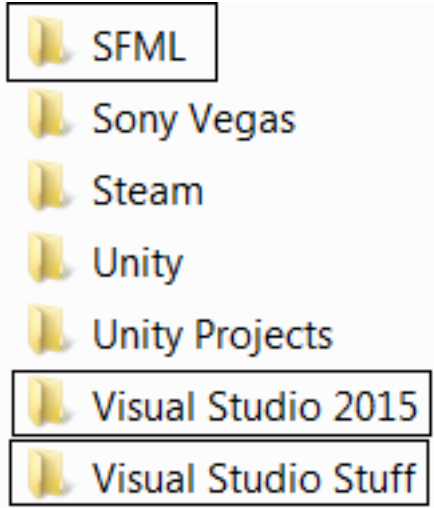
 **Older versions**
SFML 1.6 and 2.x

Click Here

Download SFML 2.3.2

Windows	Visual C++ 10 (2010) - 32-bit	Download 11.9 MB	Visual C++ 10 (2010) - 64-bit	Download 13.2 MB
	Visual C++ 11 (2012) - 32-bit	Download 13.4 MB	Visual C++ 11 (2012) - 64-bit	Download 15.0 MB
	Visual C++ 12 (2013) - 32-bit	Download 12.8 MB	Visual C++ 12 (2013) - 64-bit	Download 14.3 MB
	Visual C++ 14 (2015) - 32-bit	Download 12.3 MB	Visual C++ 14 (2015) - 64-bit	Download 13.7 MB
	GCC 4.7.1 TDM (SJLJ) - 32-bit	Download 13.5 MB	GCC 4.7.1 TDM (SJLJ) - 64-bit	Download 16.3 MB
	GCC 4.8.1 TDM (SJLJ) - 32-bit	Download 13.3 MB	GCC 4.8.1 TDM (SJLJ) - 64-bit	Download 15.3 MB
	GCC 4.9.2 MinGW (DW2) - 32-bit	Download 13.6 MB	GCC 4.9.2 MinGW (SEH) - 64-bit	Download 14.5 MB

On Windows, choosing 32 or 64-bit libraries should be based on which platform you want to compile for, not which OS you have. Indeed, you can perfectly compile and run a 32-bit program on a 64-bit Windows. So you'll most likely want to target 32-bit platforms, to have the largest possible audience. Choose 64-bit packages only if you have good reasons.



Name: HelloSFML
Location: D:\Visual Studio Stuff\Projects\ Browse...
Solution name: HelloSFML
 Create directory for solution
 Add to source control
OK Cancel

Application type:

- Windows application
- Console application
- DLL
- Static library

Add common header files for:

- ATL
- MFC

Additional options:

- Empty project
- Export symbols
- Precompiled header
- Security Development Lifecycle (SDL) checks

HelloSFML Property Pages

Configuration: 1 All Configurations Platform: Active(Win32) Configuration Manager...

- Configuration Properties
 - General
 - Debugging
 - VC++ Directories
 - C/C++ 2
 - General 2
 - Additional Include Directories D:\SFML\include 3
 - Additional #using Directories
 - Debug Information Format <different options>
 - Common Language RunTime Support
 - Consume Windows Runtime Extension
 - Suppress Startup Banner Yes (/nologo)
 - Warning Level Level3 (/W3)
 - Treat Warnings As Errors No (/WX-)
 - SDL checks Yes (/sdl)
 - Multi-processor Compilation
 - Optimization
 - Preprocessor
 - Code Generation
 - Language
 - Precompiled Headers

▲ Configuration Properties

- General
- Debugging
- VC++ Directories
- ▶ C/C++
- ▲ Linker **1**
 - General
 - Input
 - Manifest File
 - Debugging
 - System
 - Optimization

Output File	\$(OutDir)\$(TargetName)\$(TargetExt)
Show Progress	Not Set
Version	
Enable Incremental Linking	<different options>
Suppress Startup Banner	Yes (/NOLOGO)
Ignore Import Library	No
Register Output	No
Per-user Redirection	No
Additional Library Directories	D:\SFML\lib 2
Link Library Dependencies	Yes
Use Library Dependency Inputs	No

HelloSFML Property Pages

Configuration: **1** Debug Platform: Active(Win32) Configuration Manager...

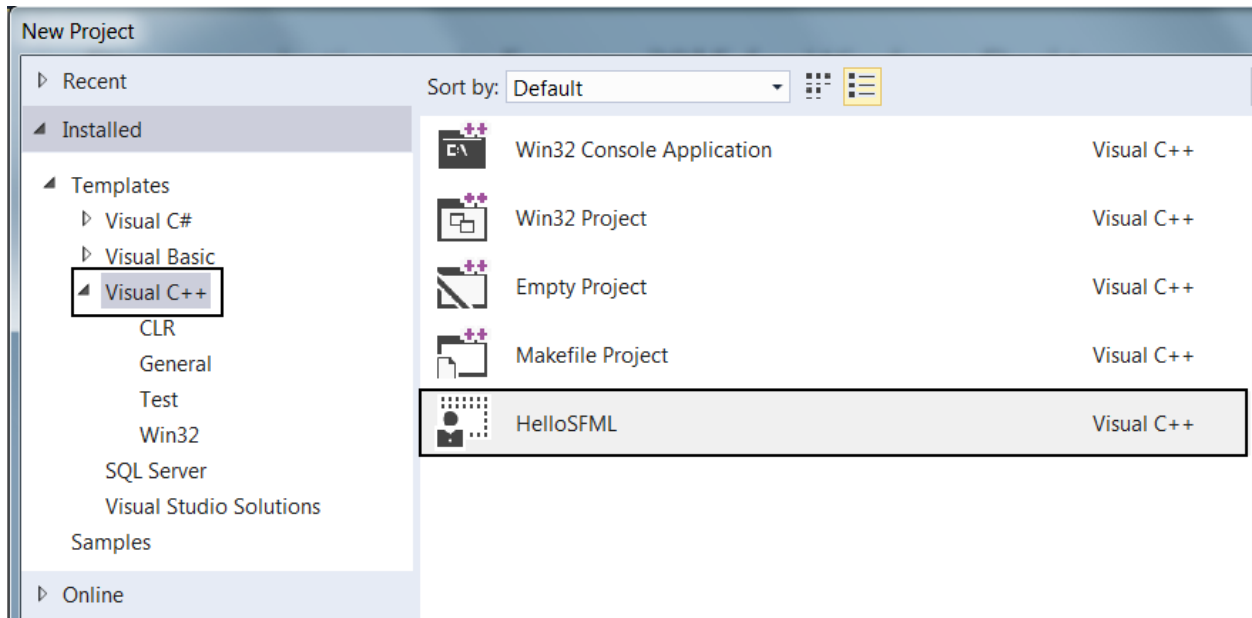
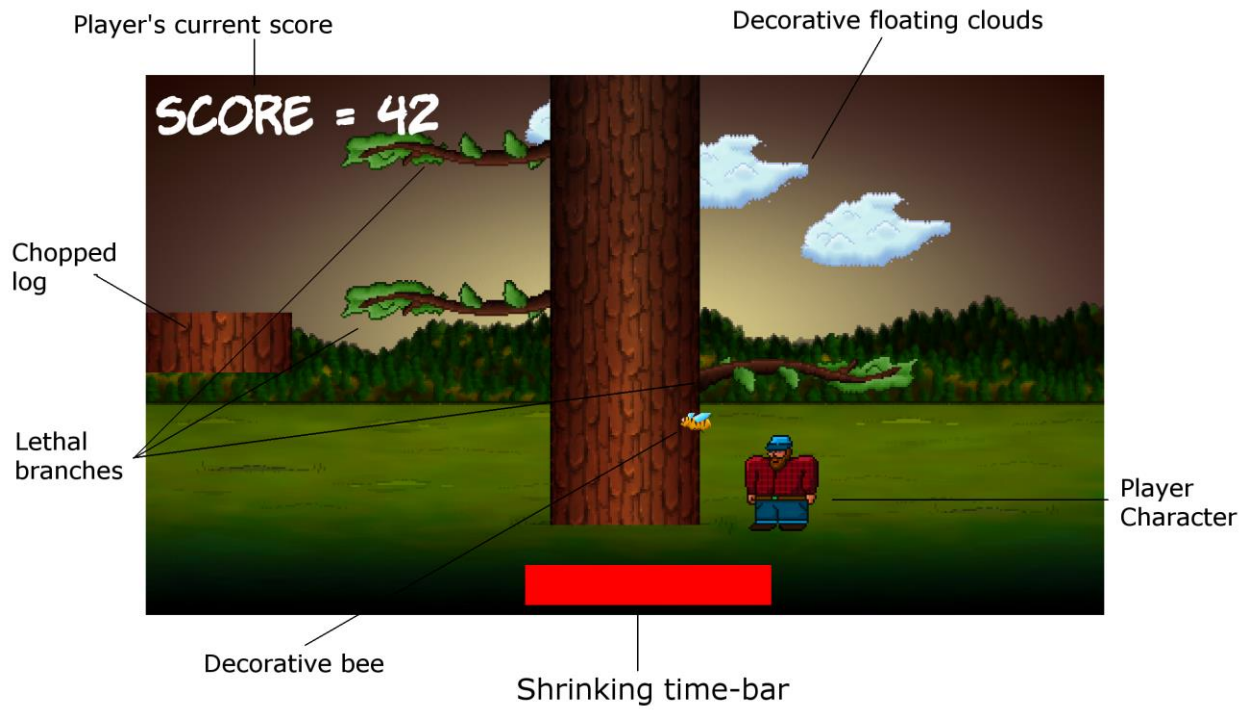
- ▲ Configuration Properties
 - General
 - Debugging
 - VC++ Directories
 - ▶ C/C++
 - ▲ Linker
 - General
 - Input **2**
 - Manifest File
 - Debugging
 - System
 - Optimization
 - Embedded IDL
 - Windows Metadata
 - Advanced
 - All Options
 - Command Line
 - ▶ Manifest Tool
 - ▶ XML Document Generator
 - ▶ Browse Information
 - ▶ Build Events
 - ▶ Custom Build Step
 - ▶ Code Analysis

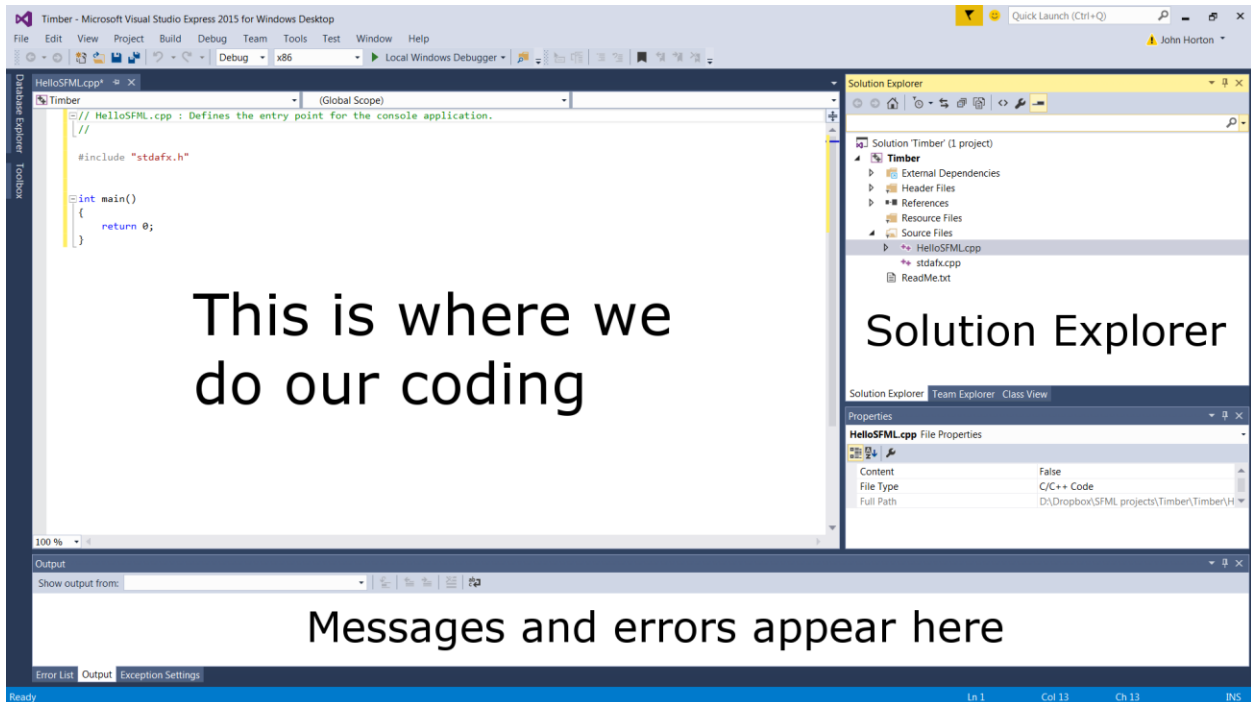
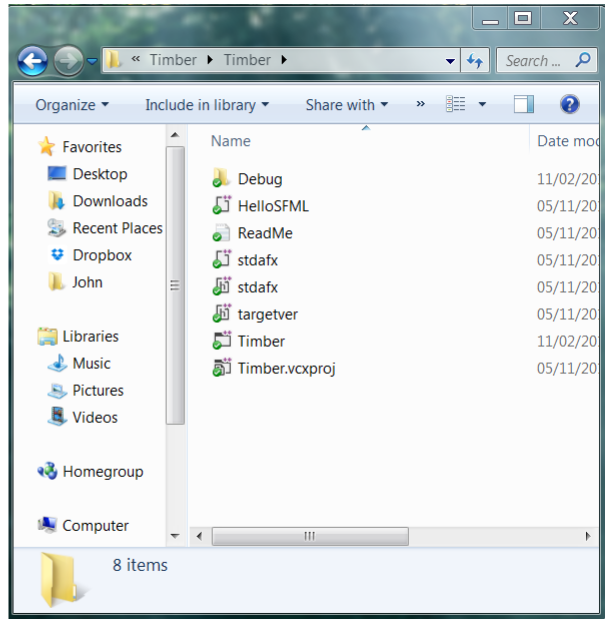
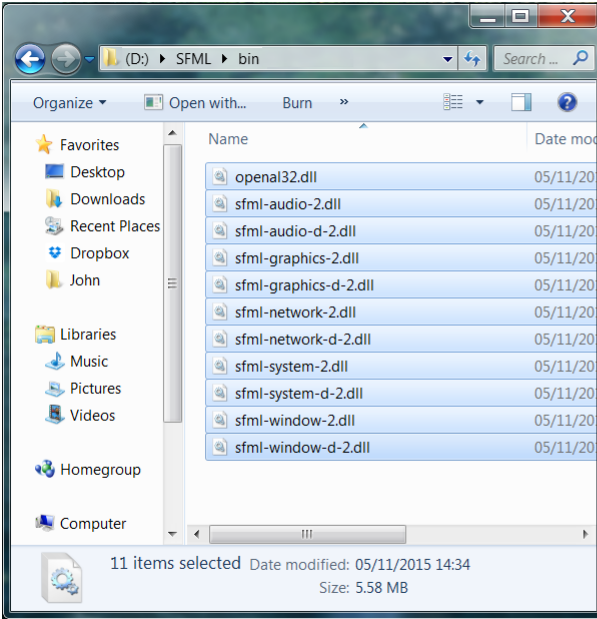
Additional Dependencies	kernel32.lib;user32.lib;gdi32.lib;winspool.lib;comdlg32.lib;ad
Ignore All Default Libraries	
Ignore Specific Default Libraries	
Module Definition File	
Add Module to Assembly	
Embed Managed Resource File	
Force Symbol References	
Delay Loaded DLLs	
Assembly Link Resource	

Additional Dependencies
Specifies additional items to add to the link command line. [i.e. kernel32.lib]

OK Cancel Apply

3







axe



background



bee



branch



cloud



log



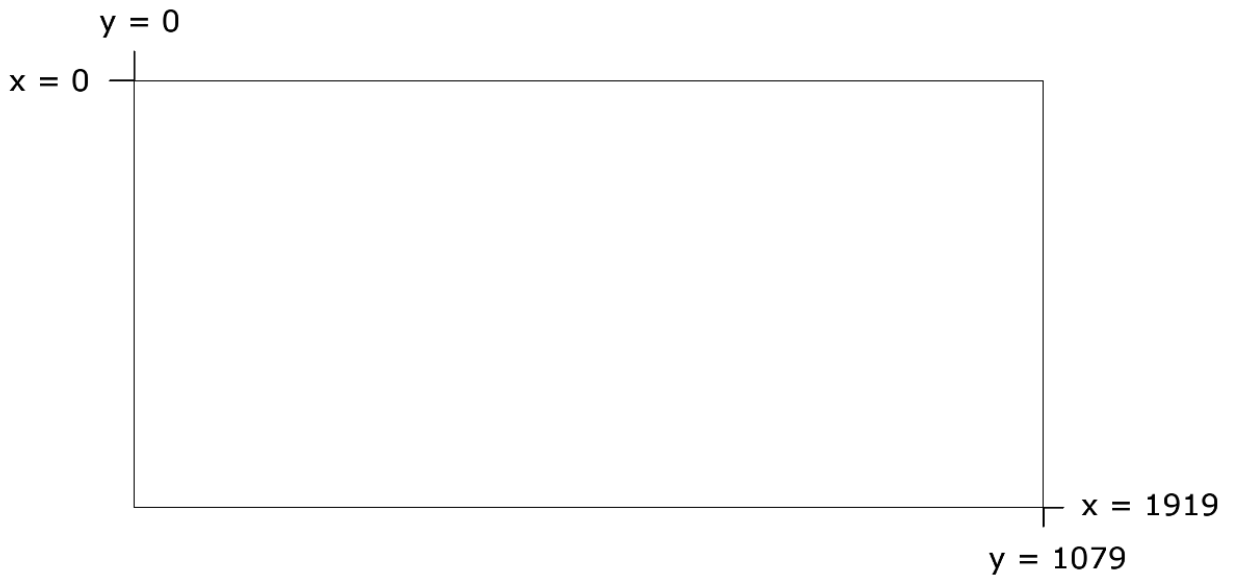
player

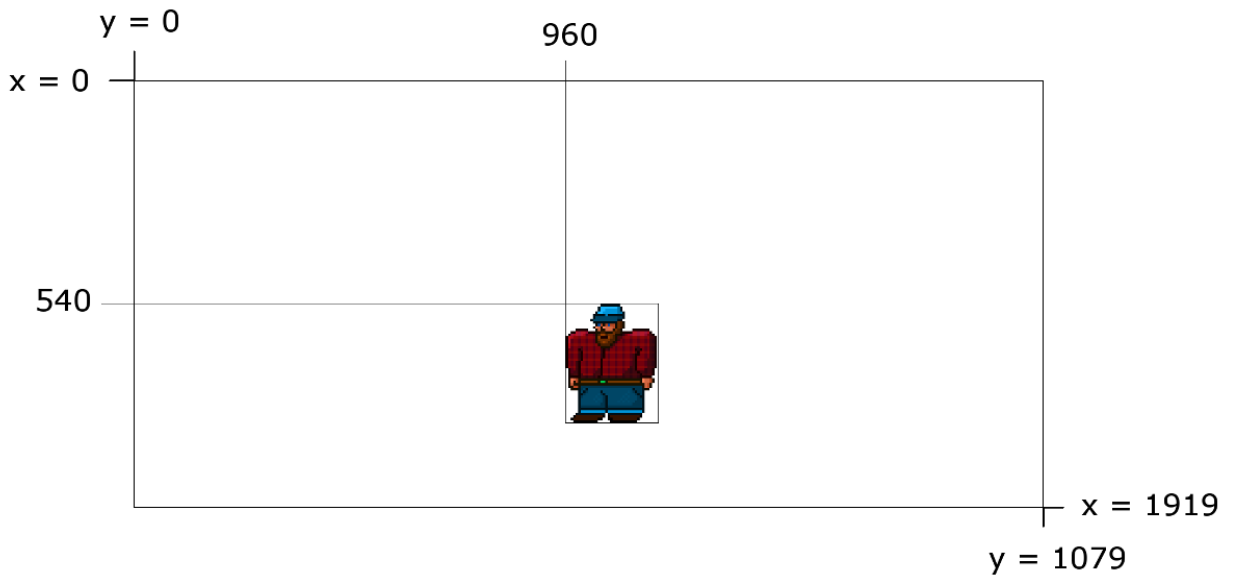


rip



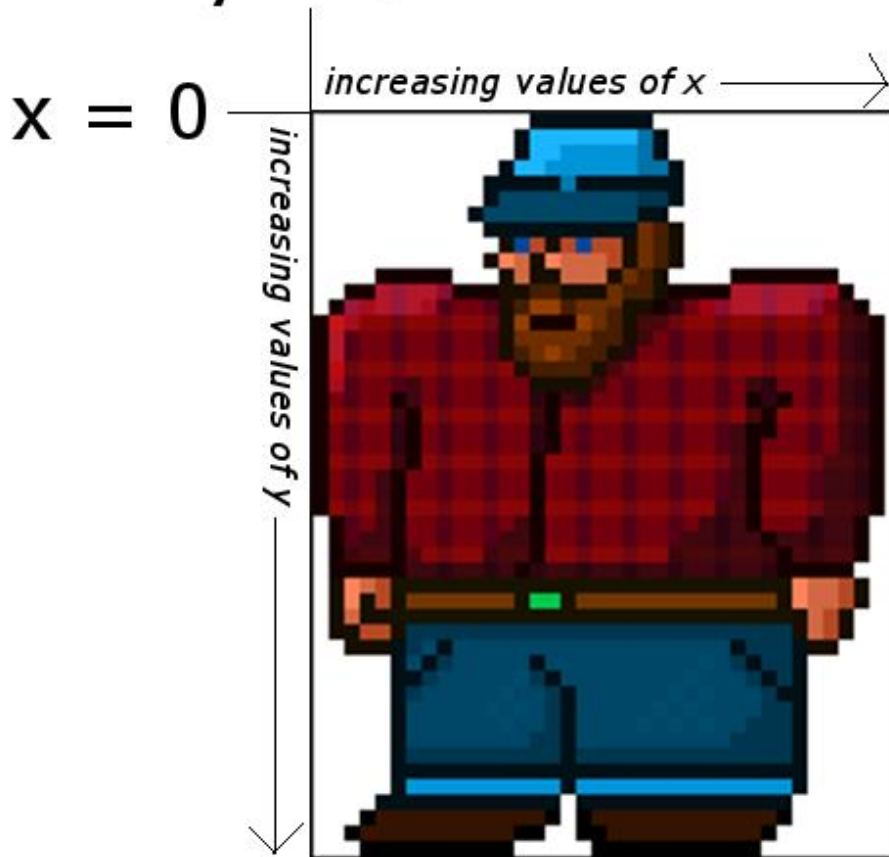
tree





Internal Coordinates *(Origin = 0, 0)*

$$y = 0$$



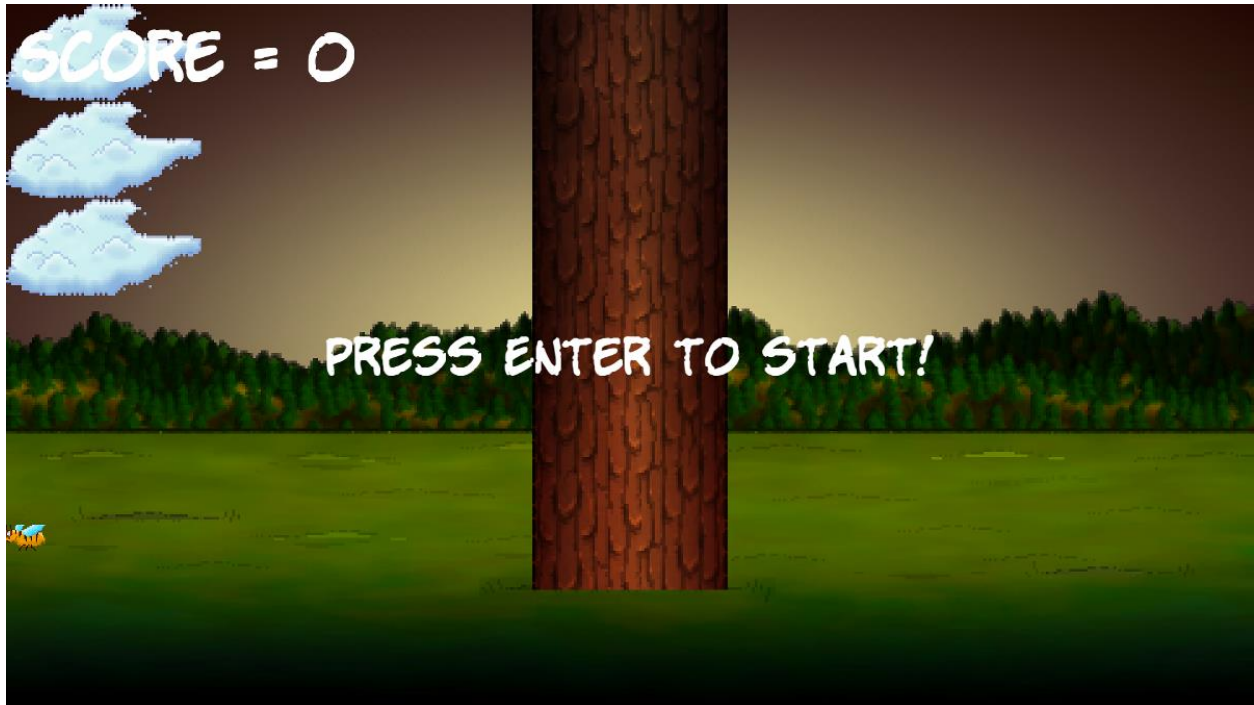
▶ Local Windows Debugger ▾

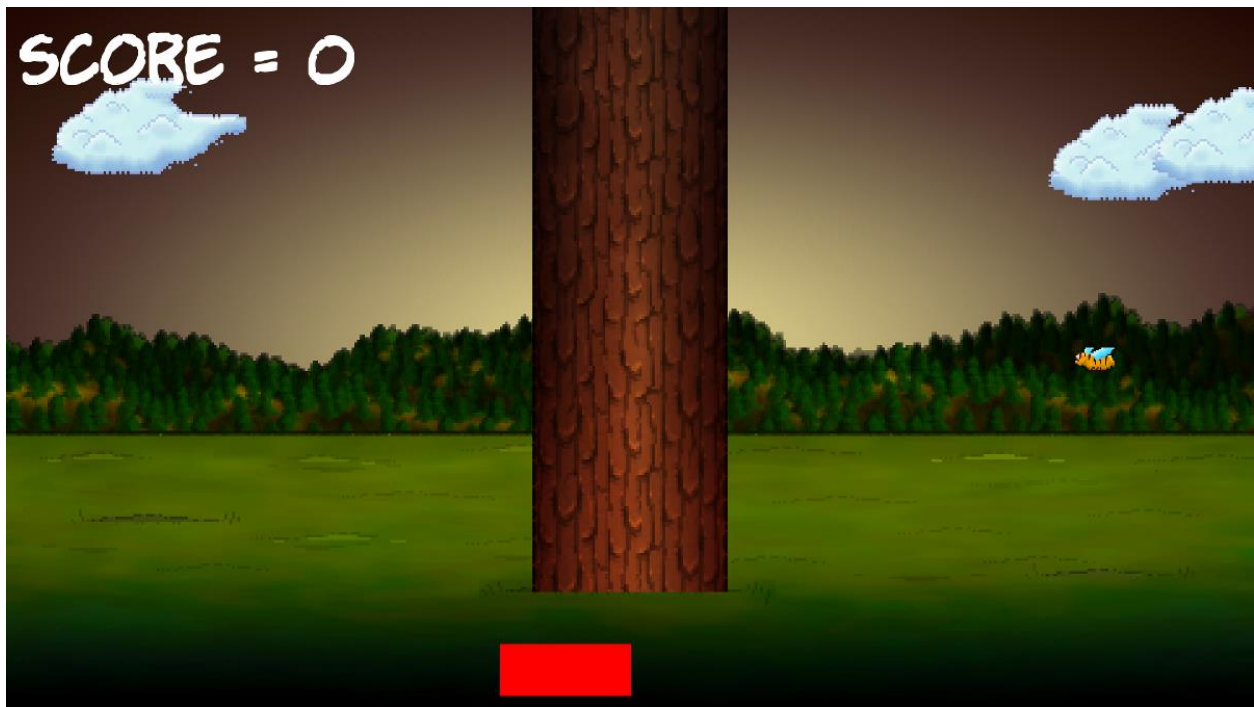


Chapter 2: Variables, Operators, and Decisions – Animating Sprites

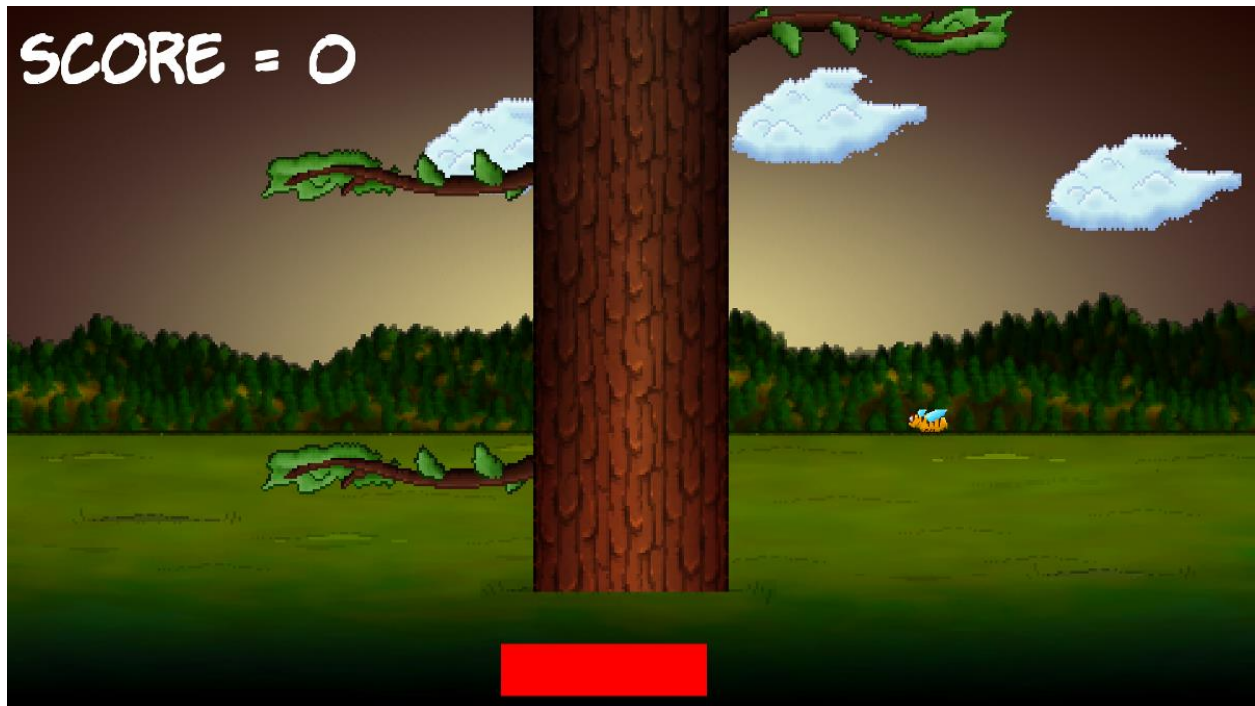


Chapter 3: C++ Strings, SFML Time – Player Input, and HUD





Chapter 4: Loops, Arrays, Switch, Enumerations and Functions – Implementing Game Mechanics

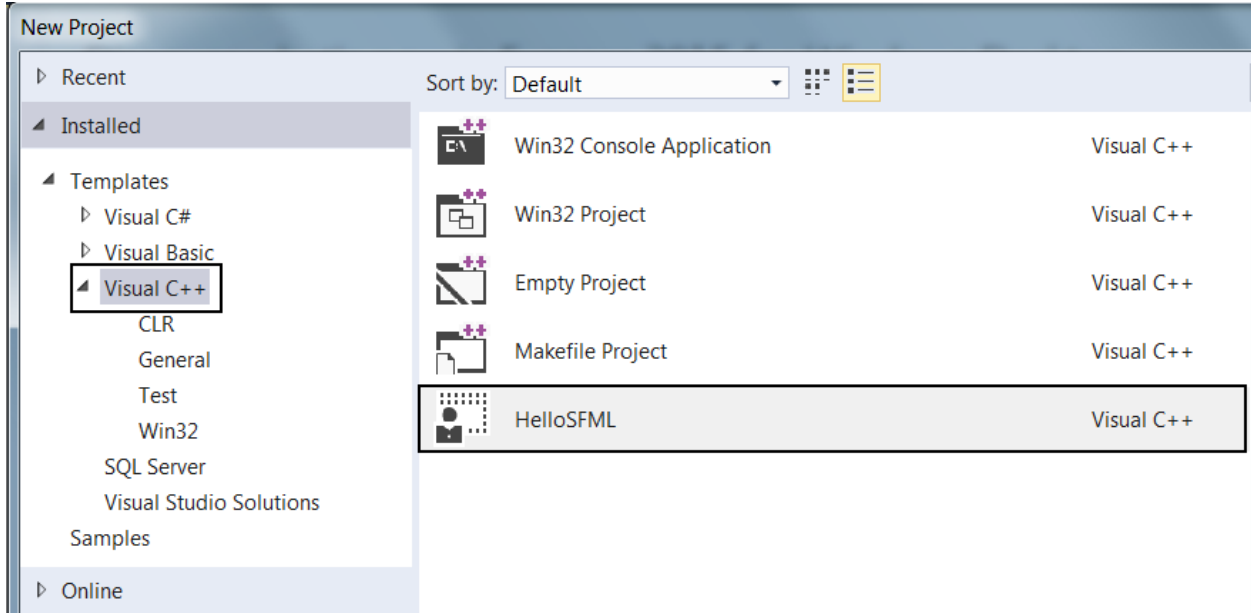
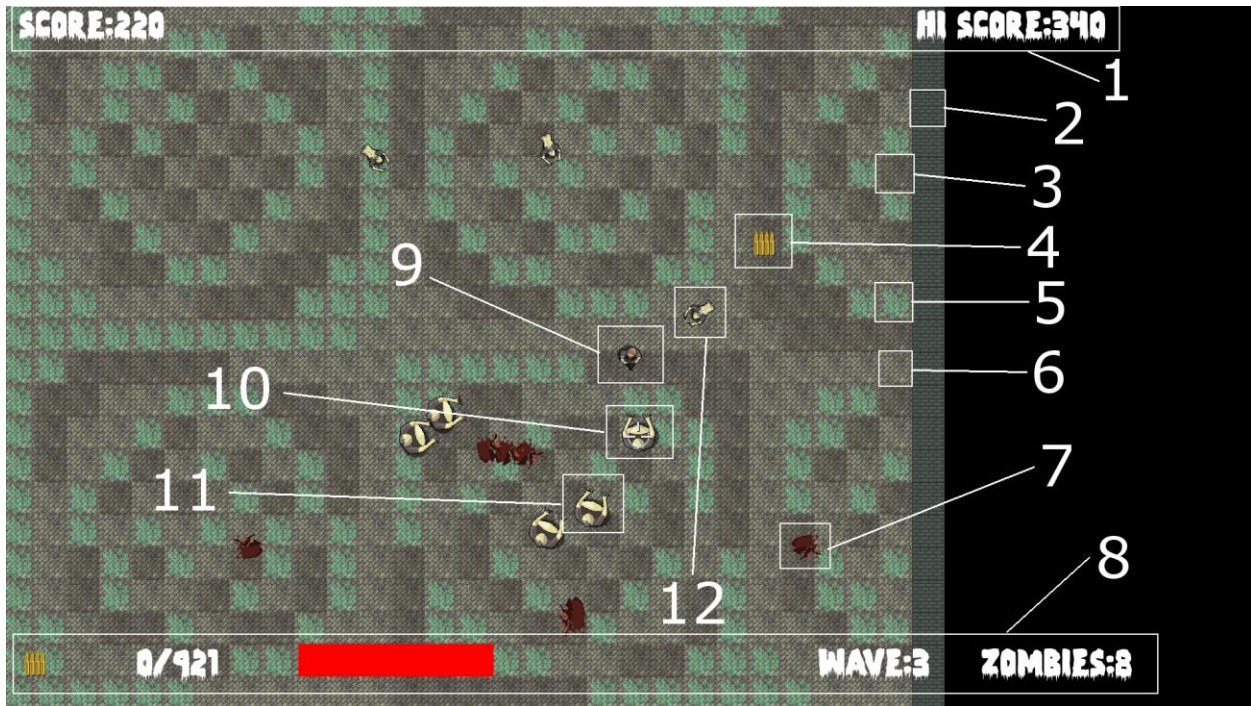


Chapter 5: Collisions, Sound, and, End Conditions – Making the Game Playable





Chapter 6: Object-Oriented Programming, Classes, and SFML Views





ammo_icon



ammo_pickup



background



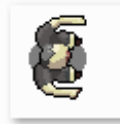
background_shee
t



bloater



blood



chaser



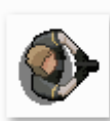
crawler



crosshair



health_pickup



player

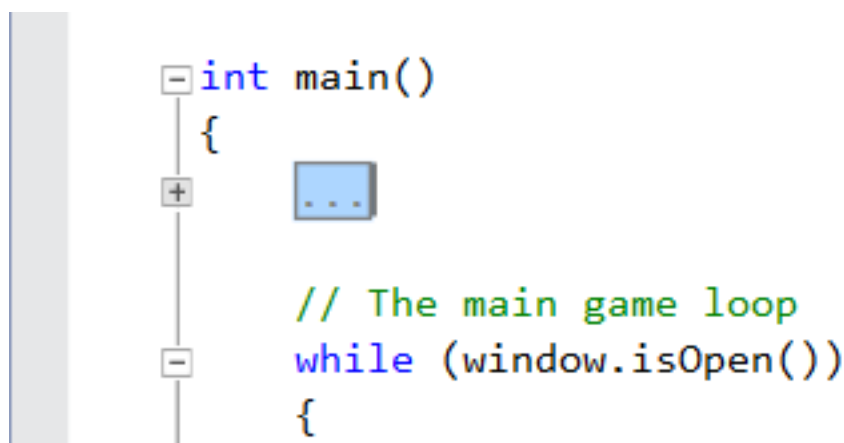
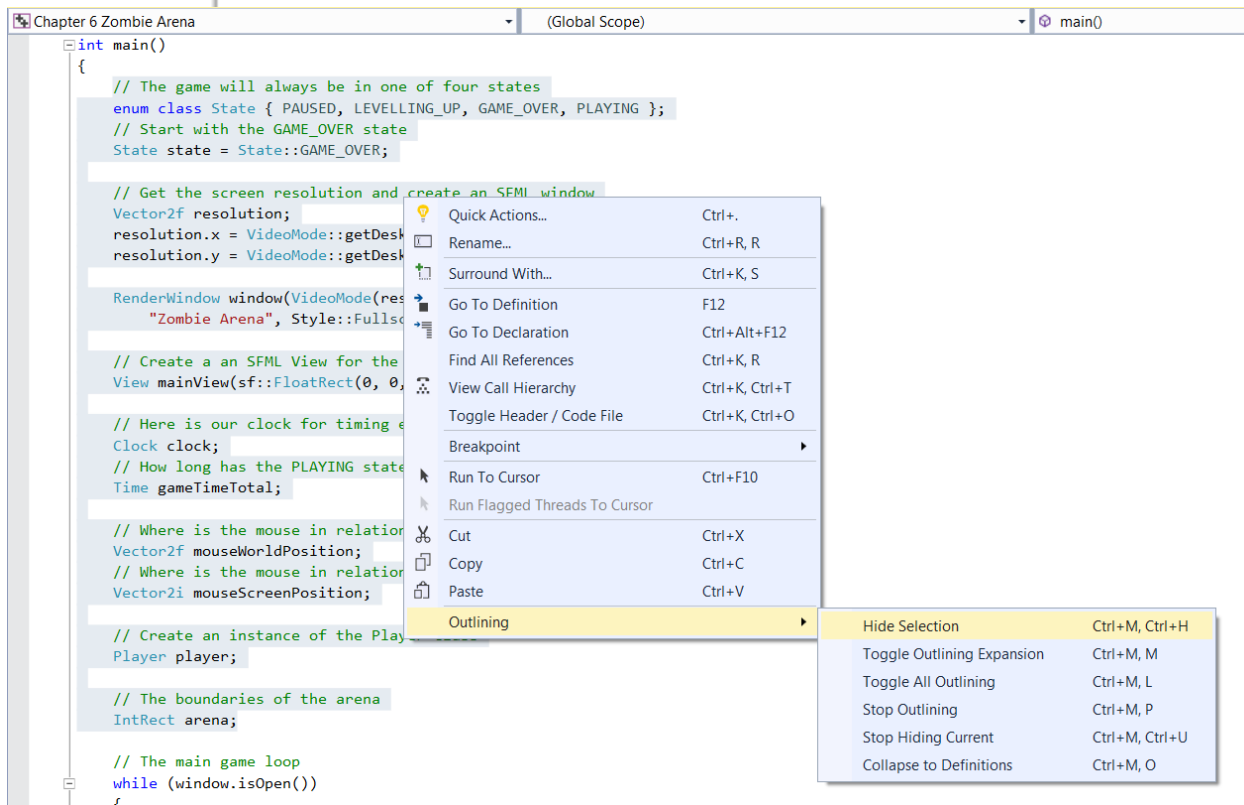


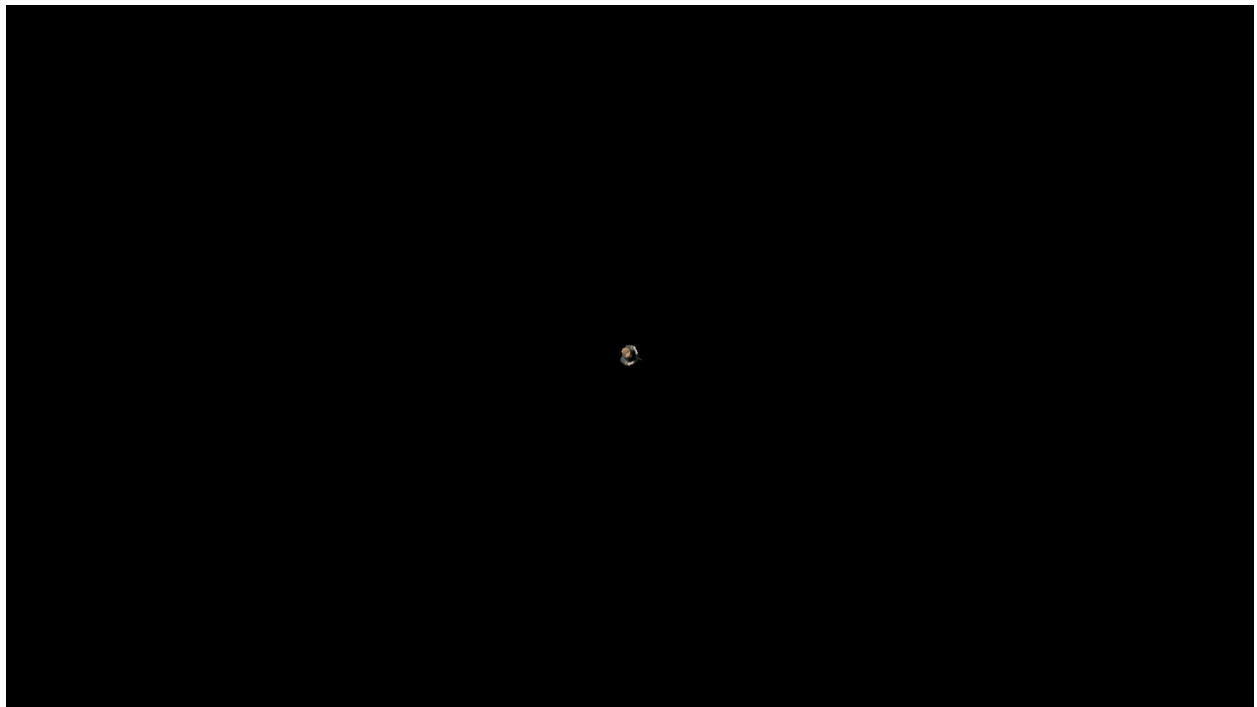
sample

```

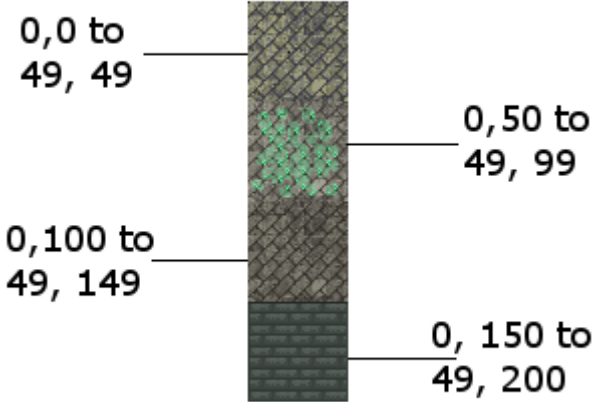
// The main game loop
while (window.isOpen())
{

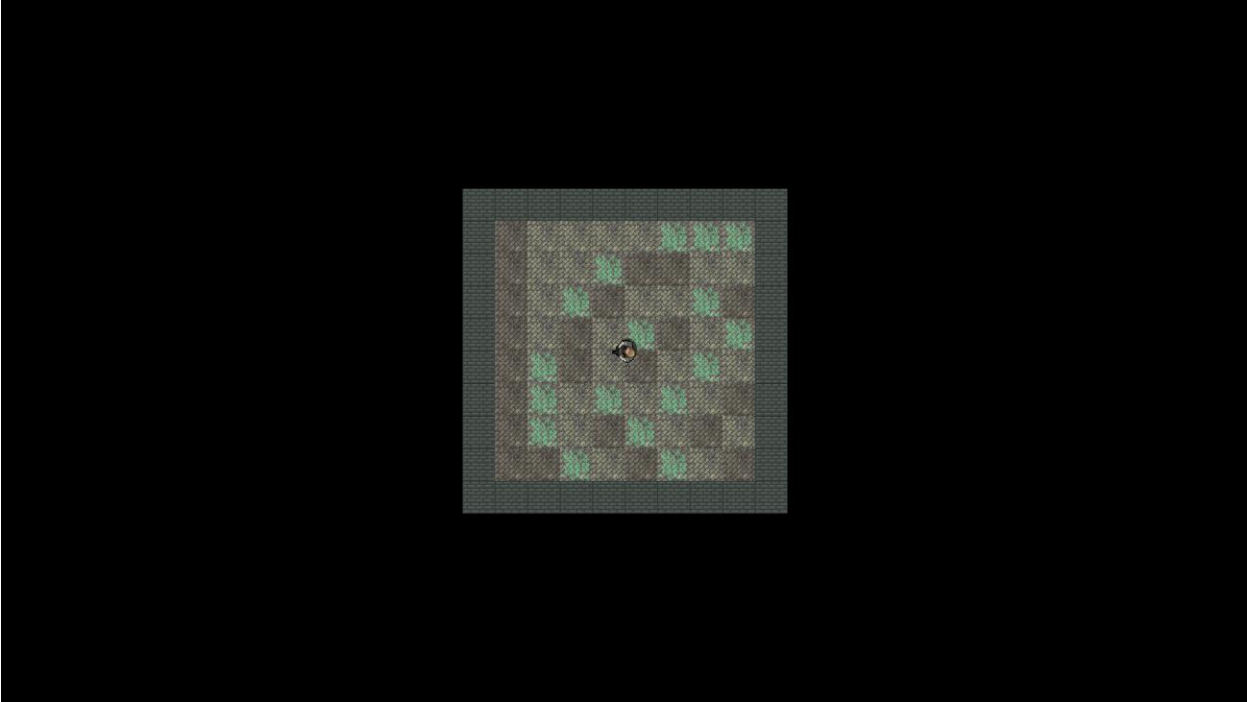
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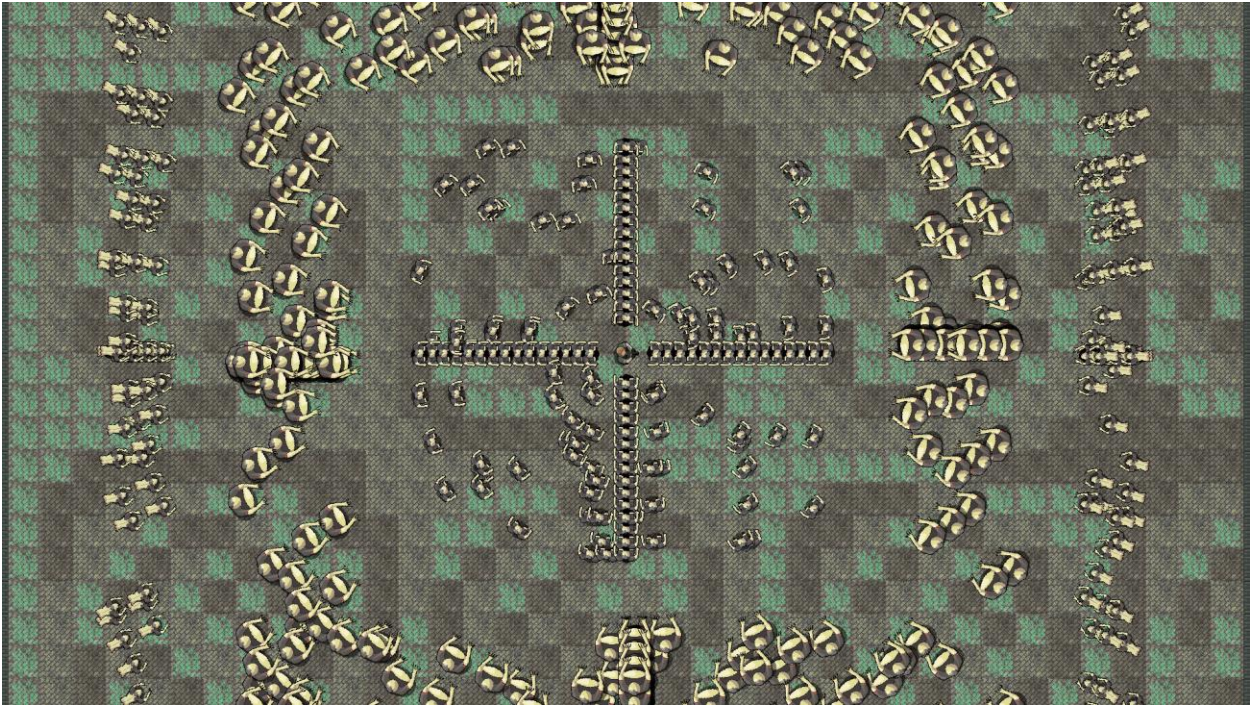


Chapter 7: C++ References, Sprite Sheets and Vertex Arrays

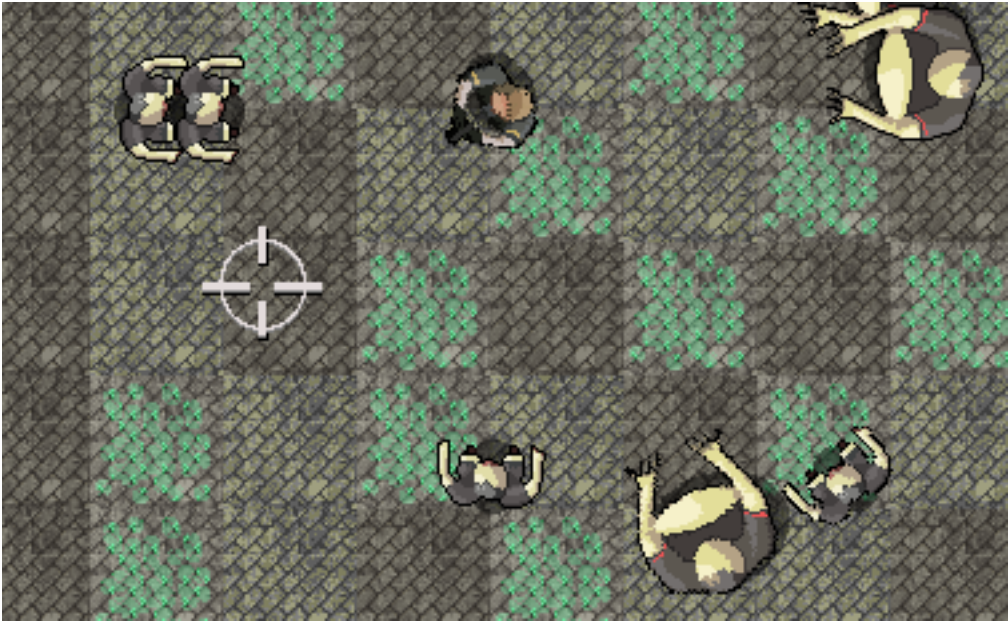


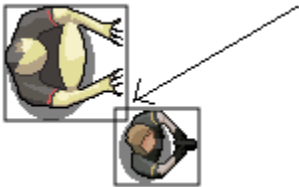


Chapter 8: Pointers, the Standard Template Library, and Texture Management



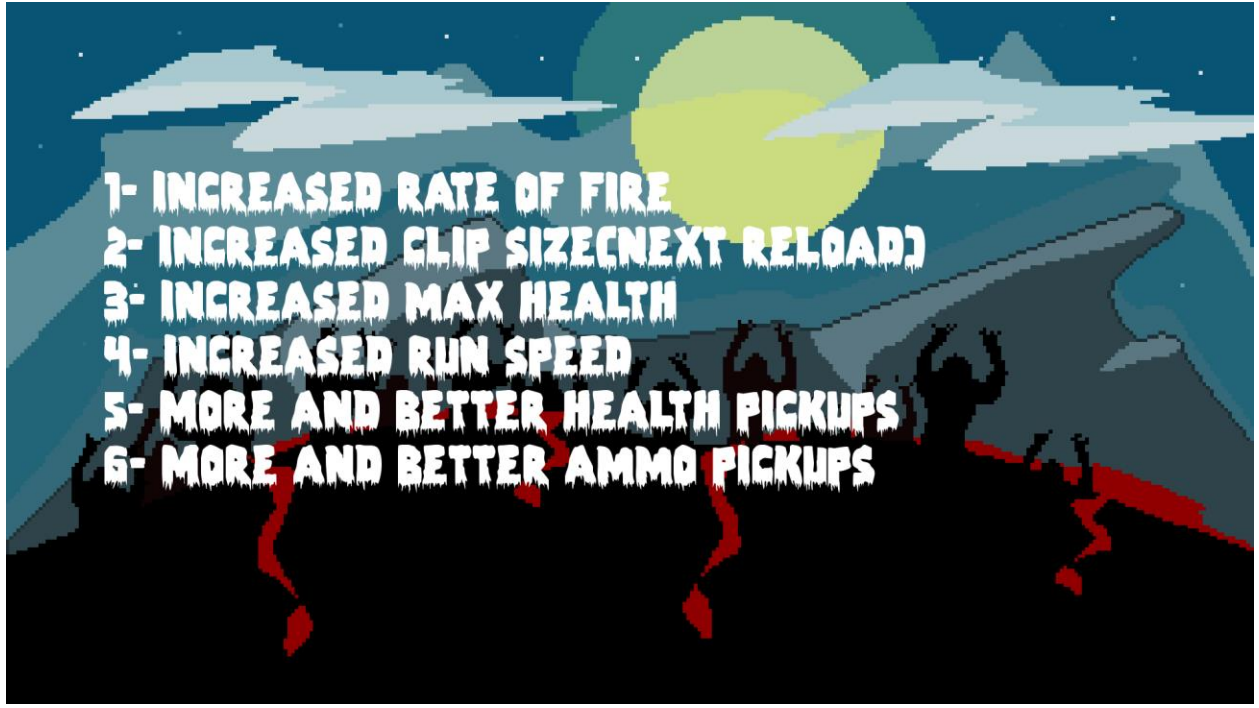
Chapter 9: Collision Detection, Pickups and Bullets





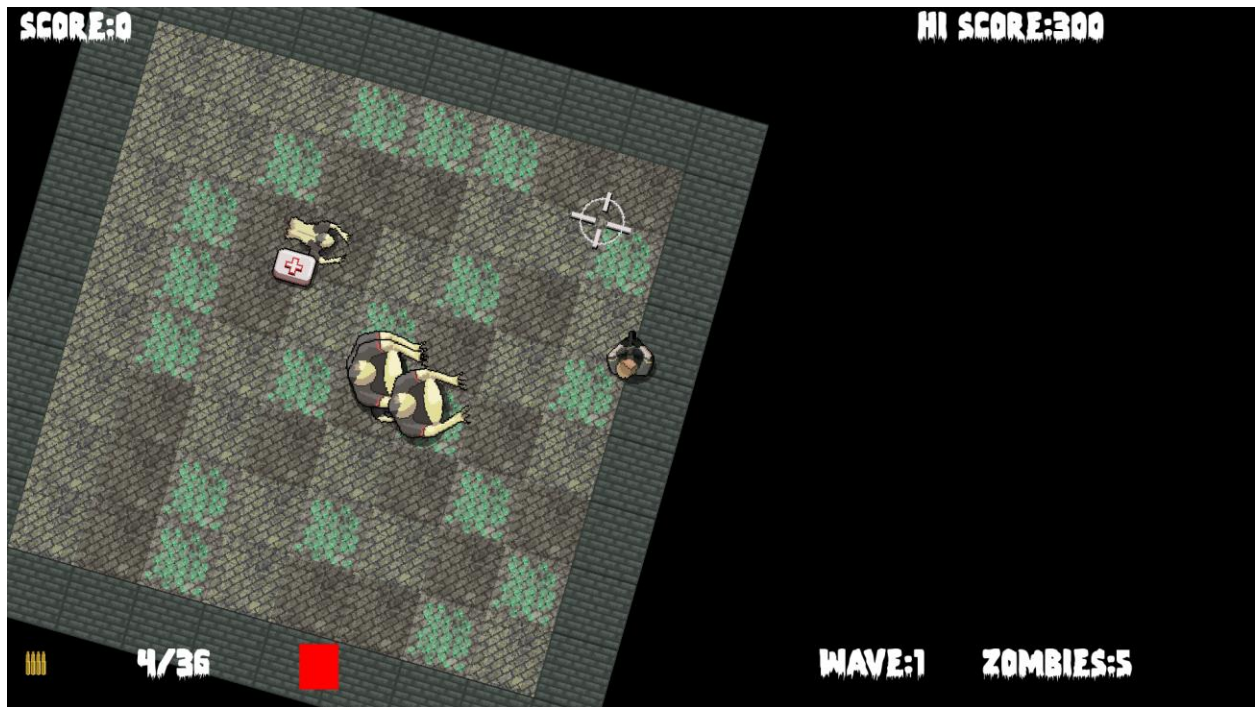
Chapter 10: Layering Views and Implementing the HUD





SCORE:0

HI SCORE:300



4/36



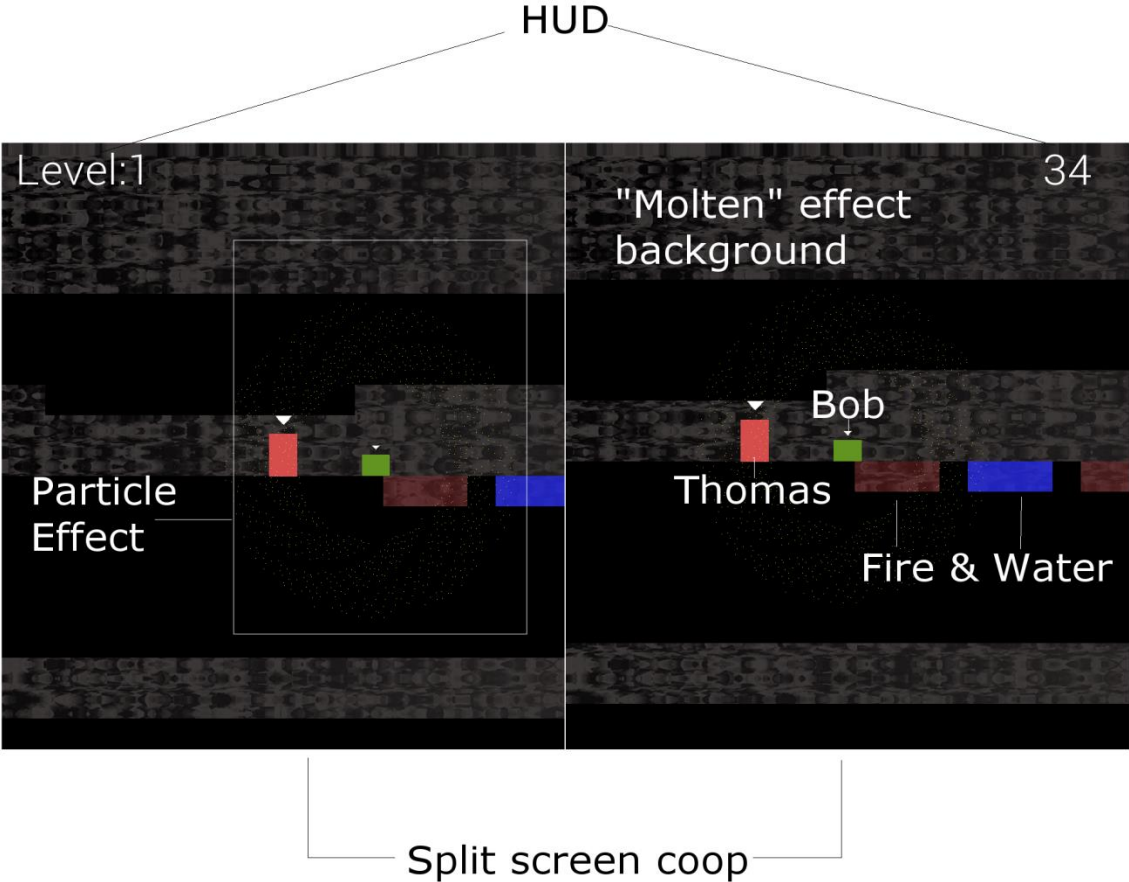
WAVE:1

ZOMBIES:5

Chapter 11: Sound Effects, File I/O and Finishing the Game

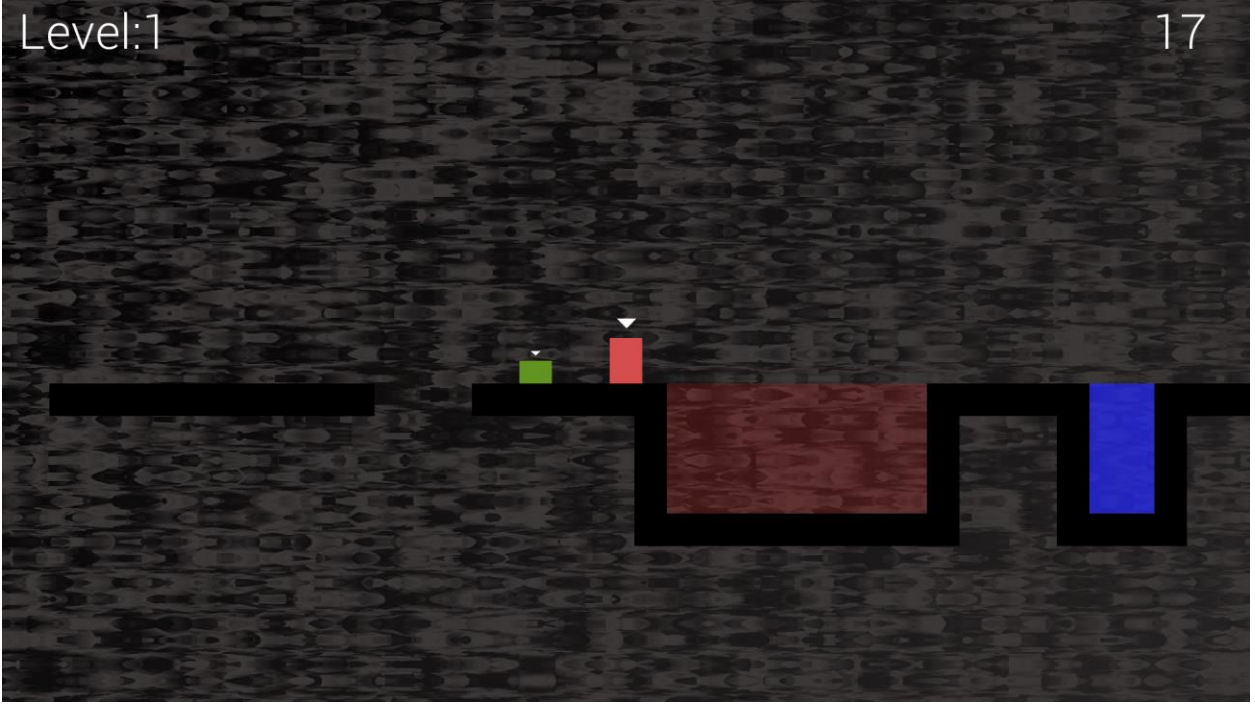


Chapter 12: Abstraction and Code Management – Making Better Use of OOP



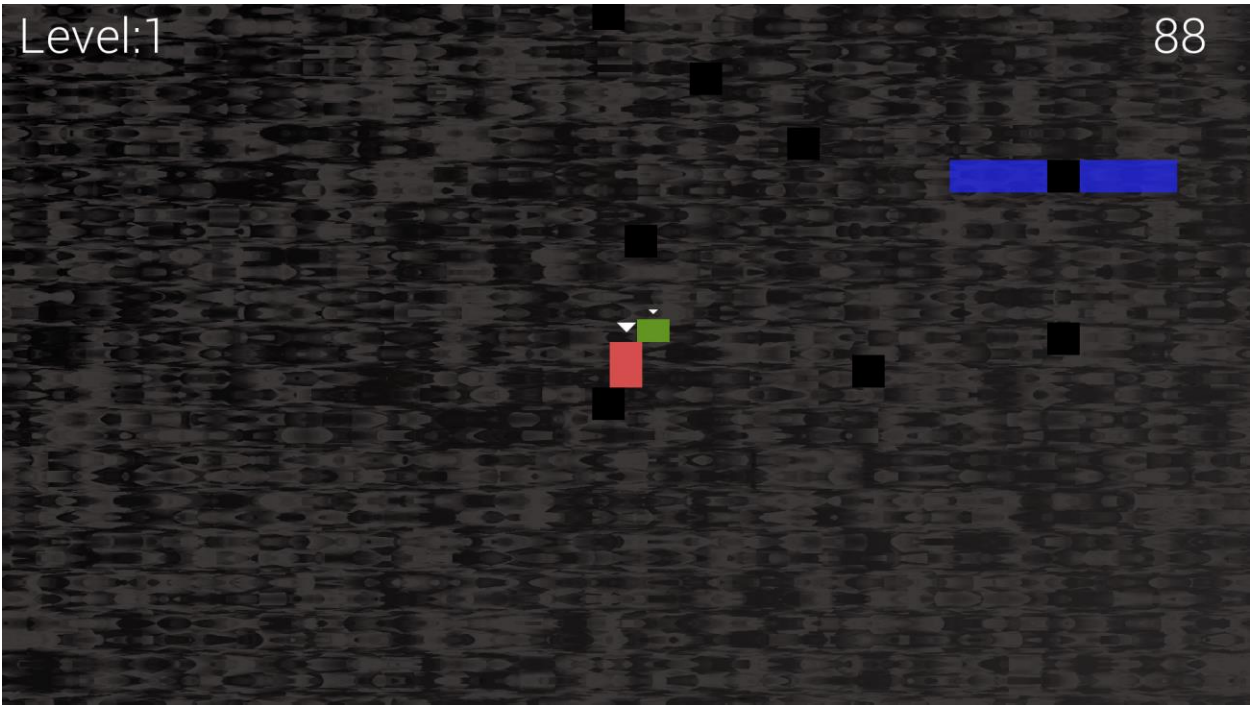
Level:1

17



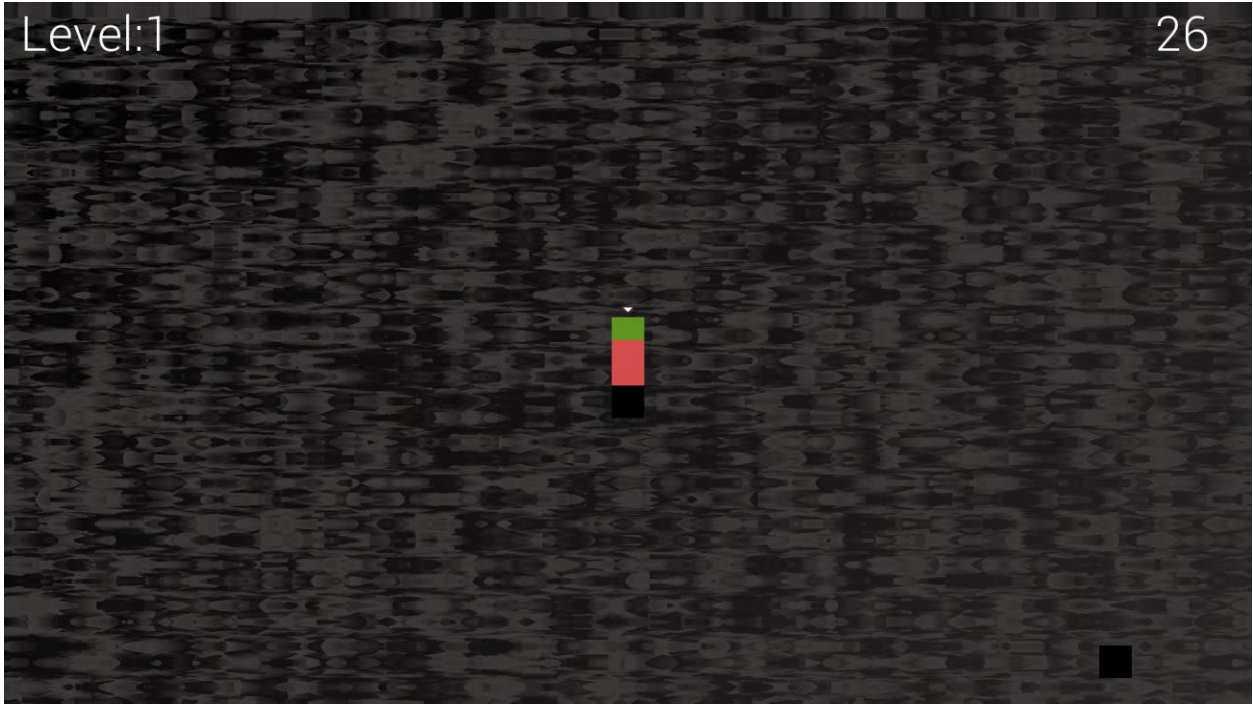
Level:1

88



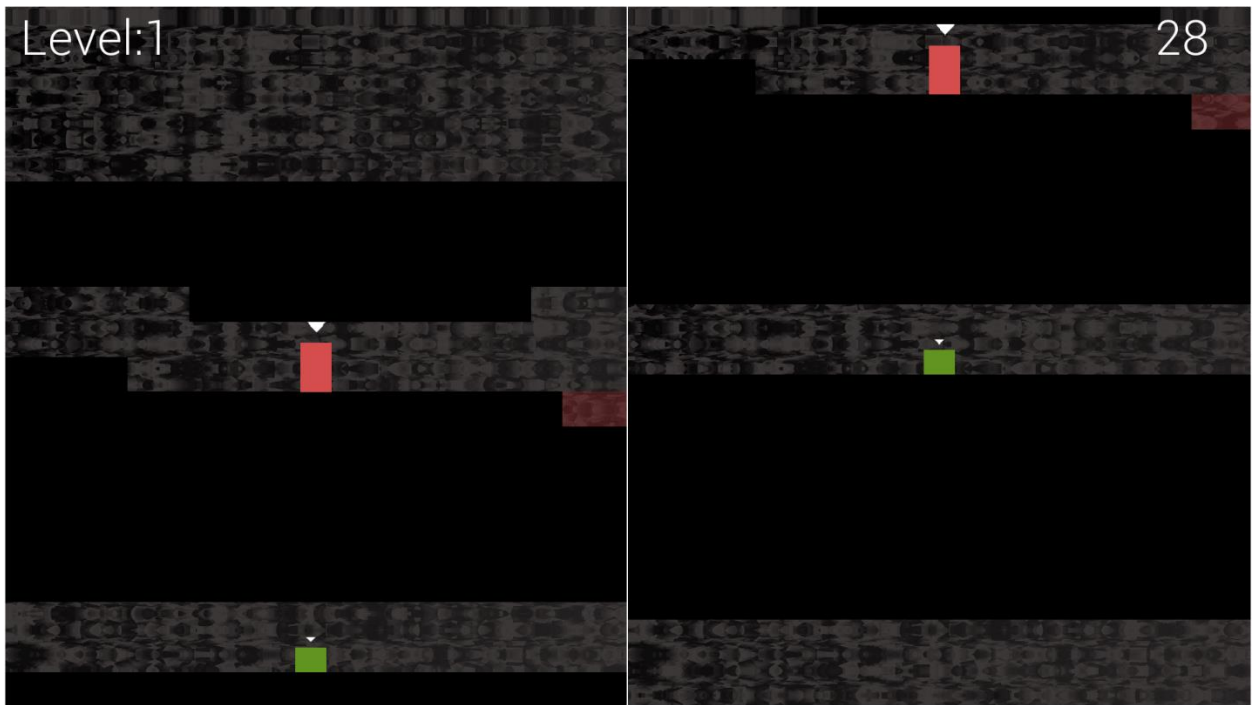
Level:1

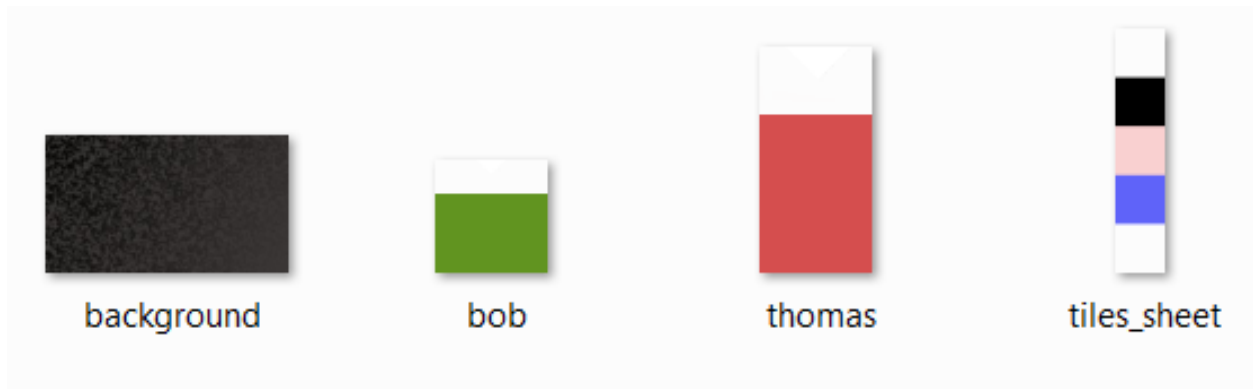
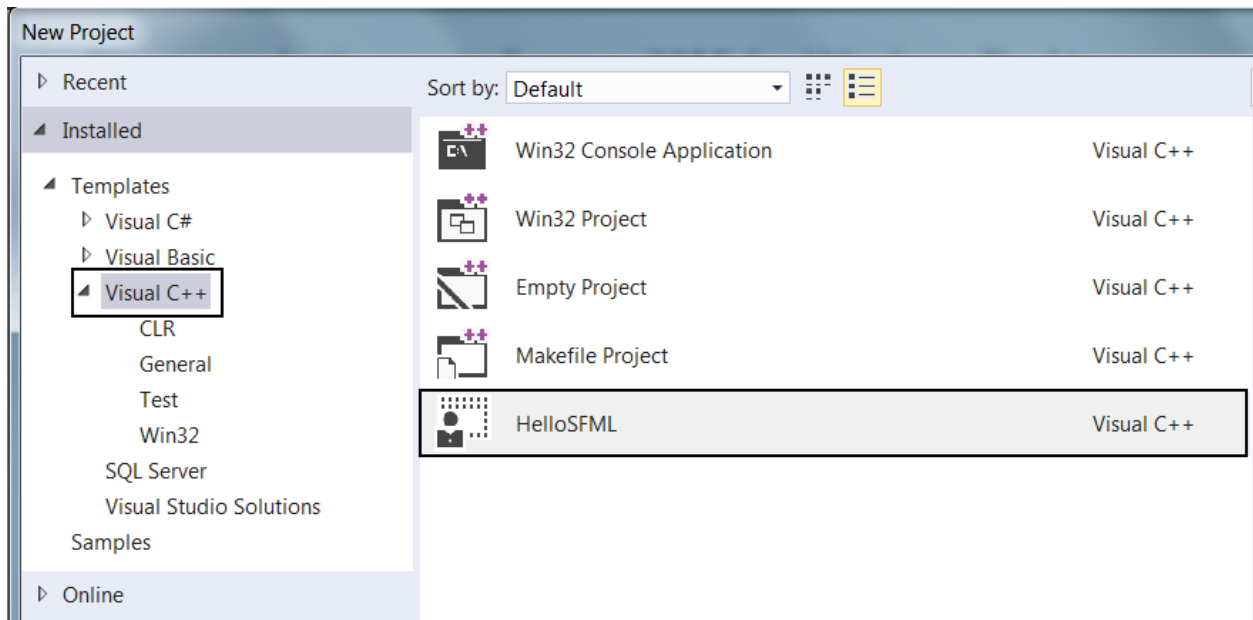
26

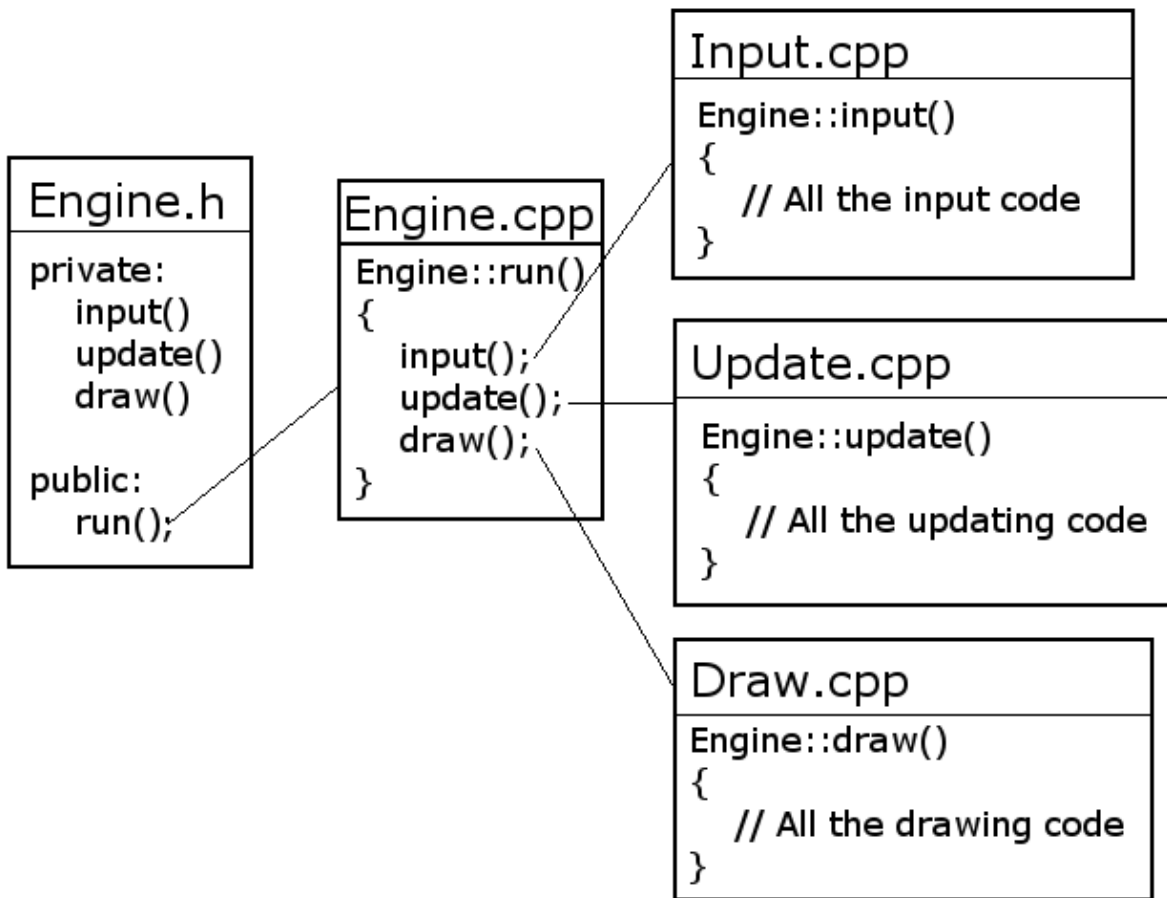


Level:1

28





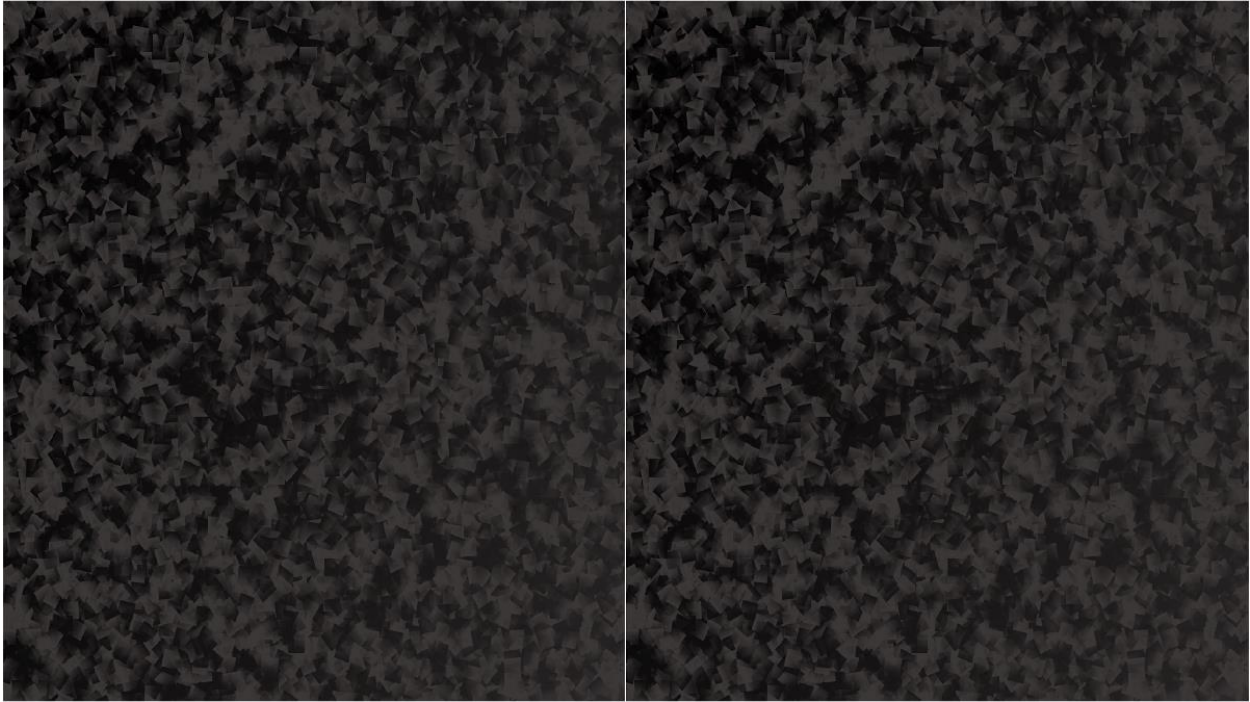


m_LeftView
on top of
m_BGLeftView

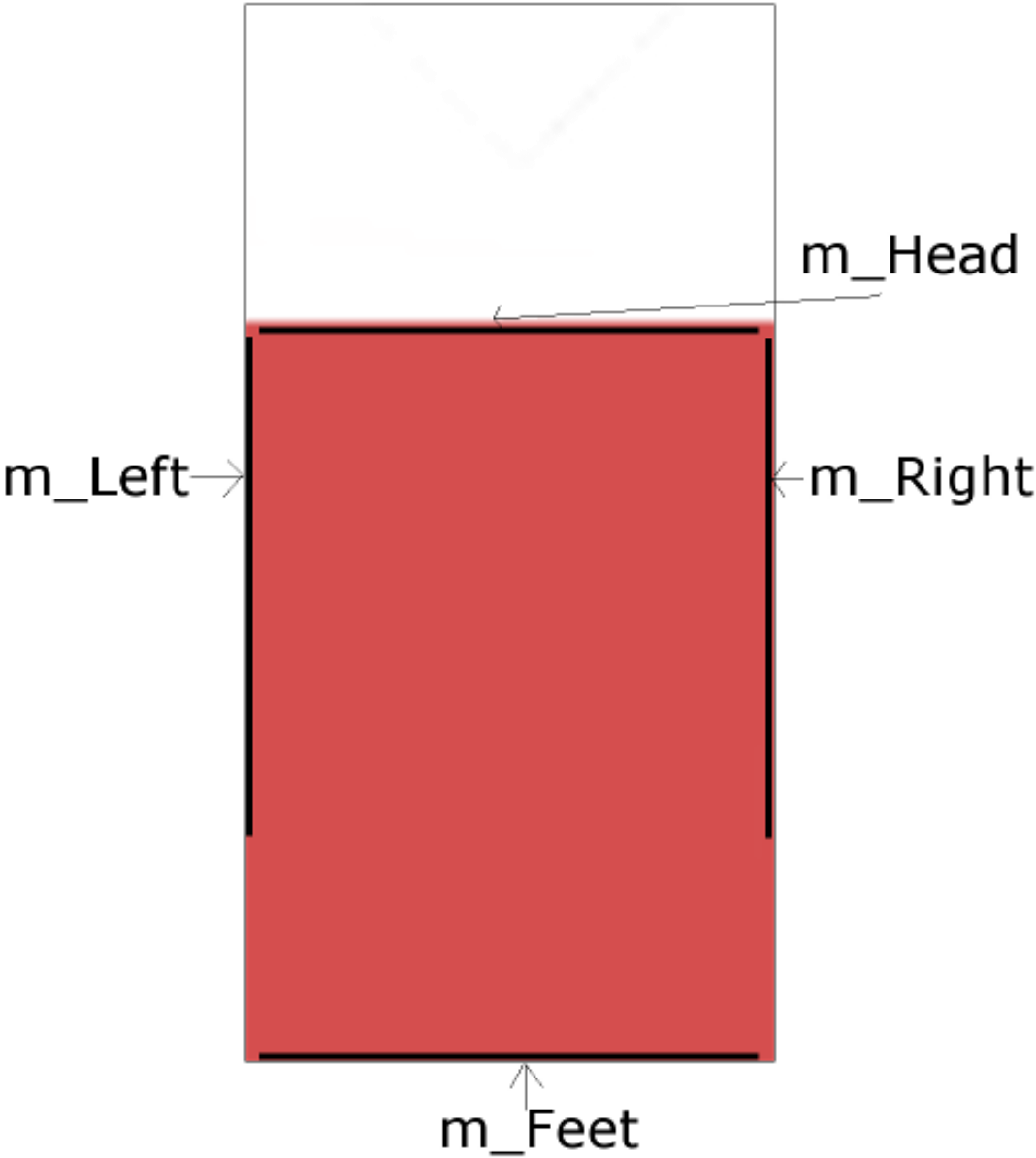
m_RightView
on top of
m_BGRightView

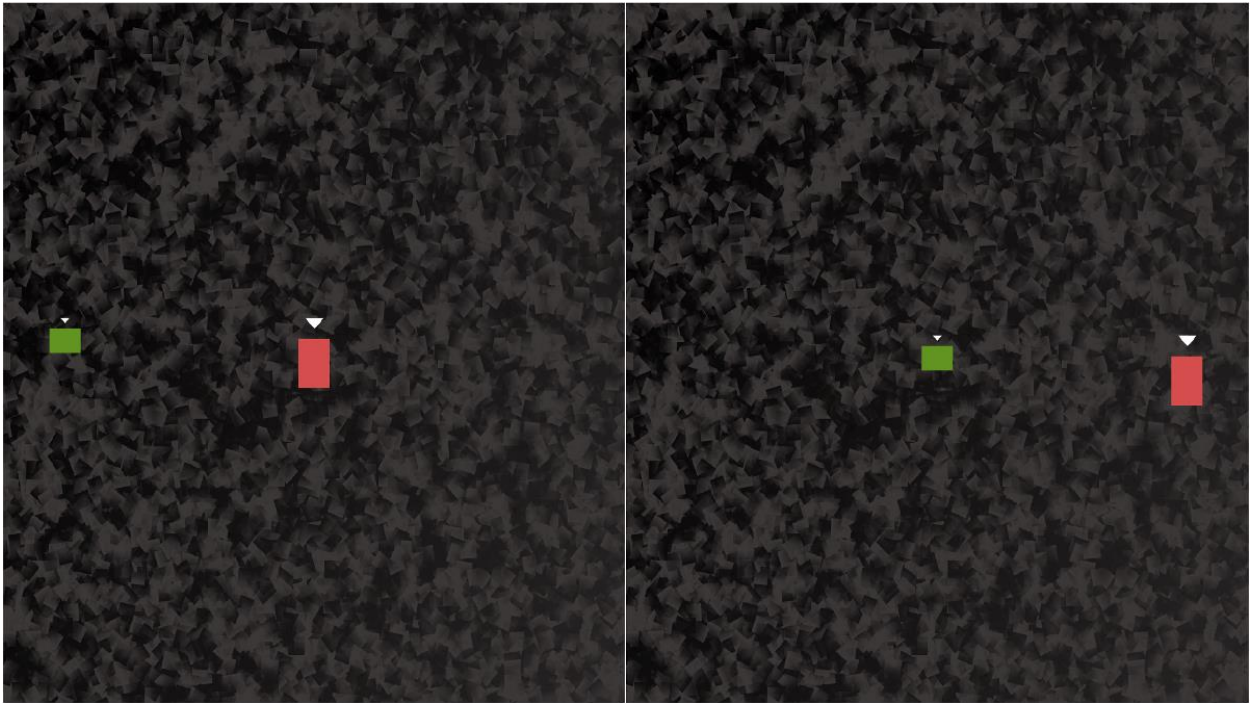
```
File Edit View Project Build Debug Team Tools Test Window Help
Debug x86 Local Windows Debugger
Input.cpp Update.cpp Draw.cpp
Chapter 12 TWL Engine
#include "stdafx.h"
#include "Engine.h"
void Engine::draw()
```





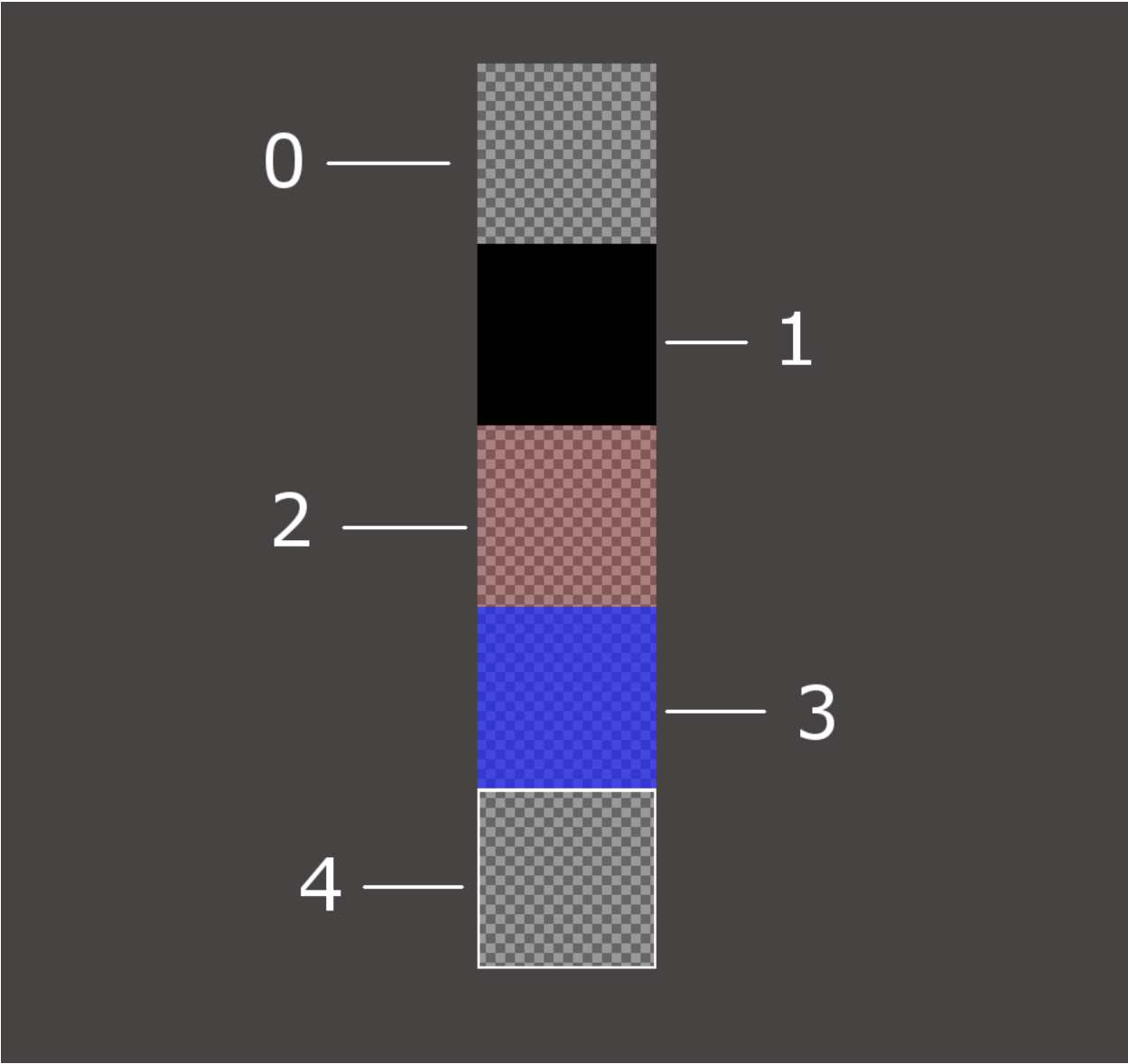
Chapter 13: Advanced OOP – Inheritance and Polymorphism

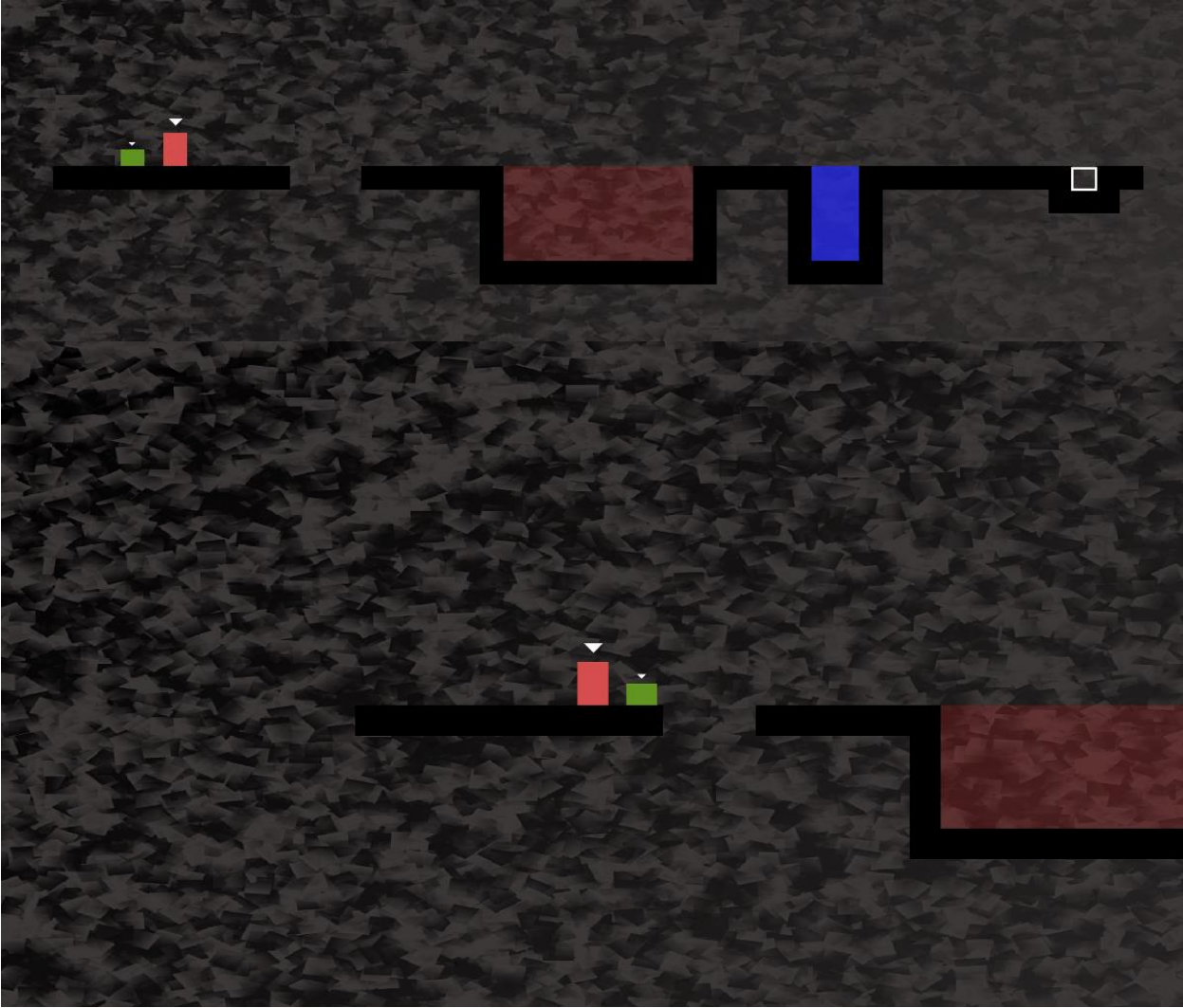






Chapter 14: Building Playable Levels and Collision Detection







Chapter 16: Extending SFML Classes, Particle Systems and Shaders

