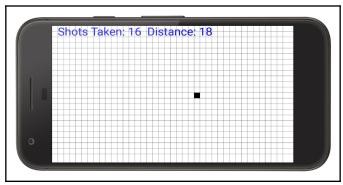
Chapter 1: Java, Android, and Game Development





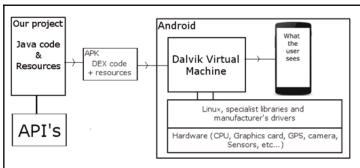


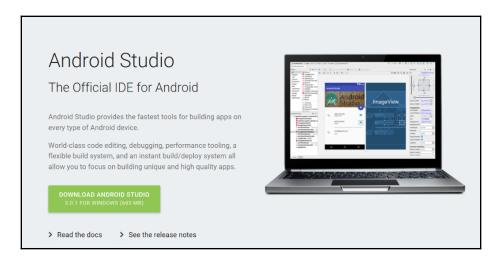














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Terms and Conditions

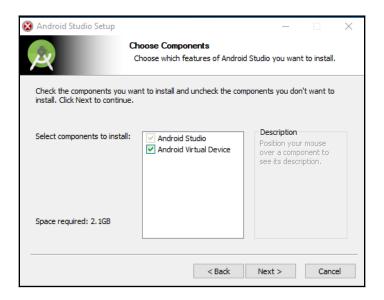
This is the Android Software Development Kit License Agreement

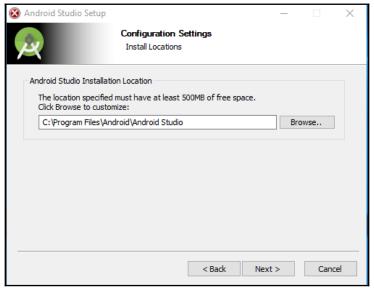
1. Introduction

- 1.1 The Android Software Development Kit (referred to in the License Agreement as the "SDK" and specifically including the Android system files, packaged APIs, and Google APIs add-ons) is licensed to you subject to the terms of the License Agreement. The License Agreement forms a legally binding contract between you and Google in relation to your use of the SDK.
- 1.2 "Android" means the Android software stack for devices, as made available under the Android Open Source Project, which is located at the following URL: http://source.android.com/, as updated from time to time.
- 1.3 A "compatible implementation" means any Android device that (i) complies with the Android Compatibility Definition document, which
- ☑ I have read and agree with the above terms and conditions

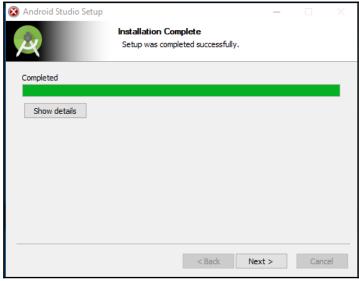
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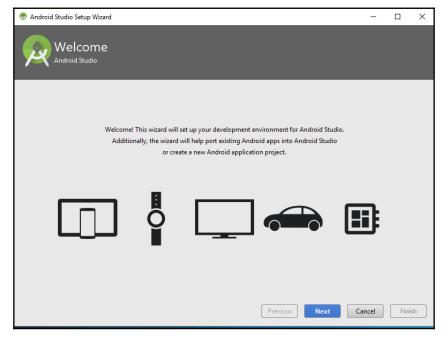


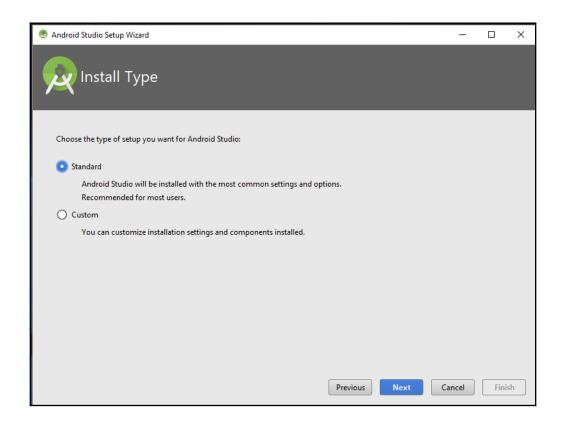


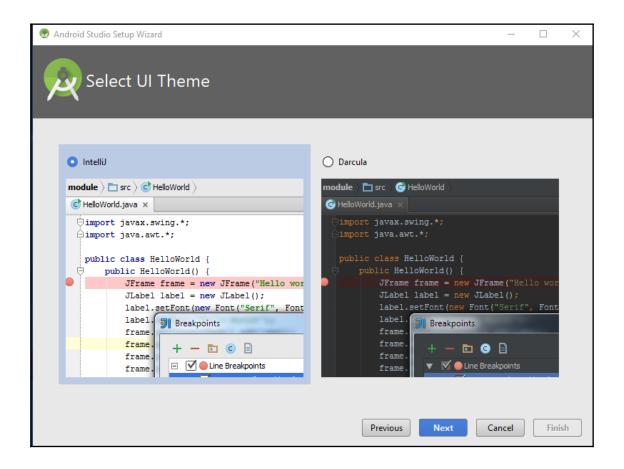


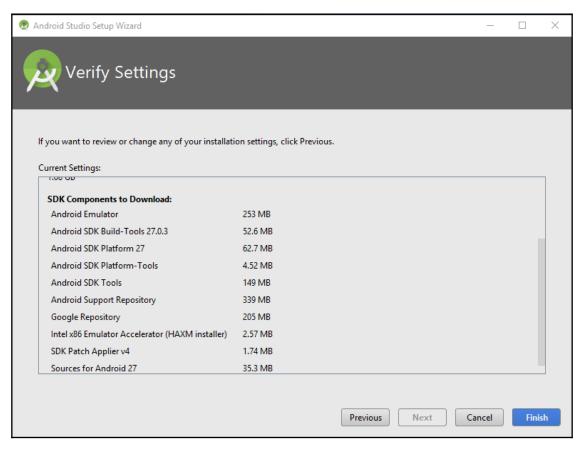




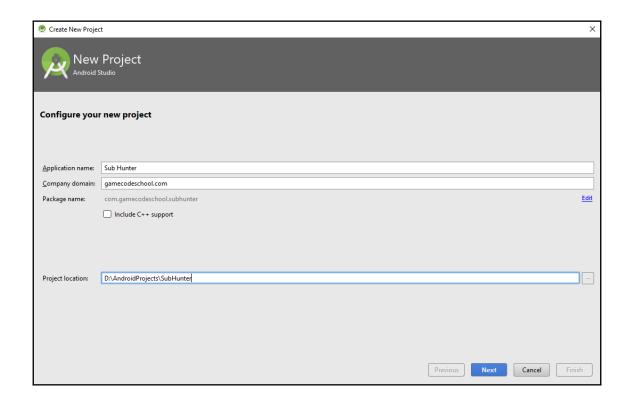


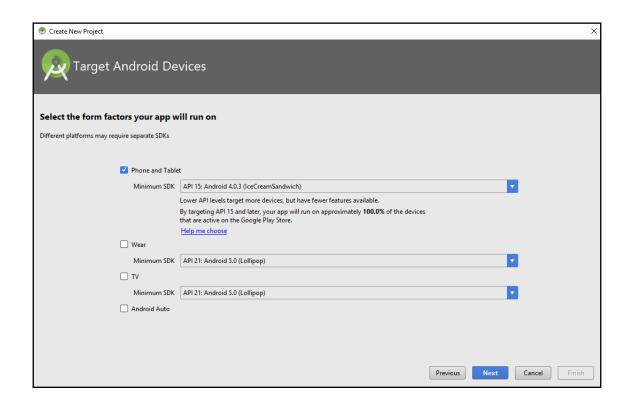


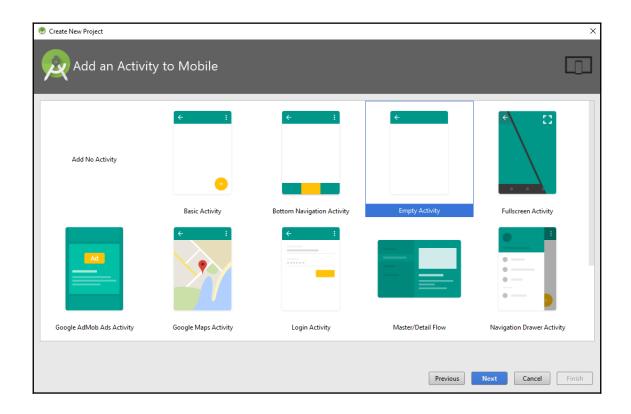


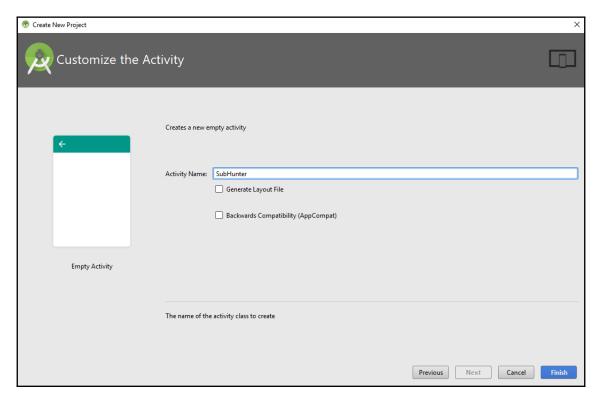




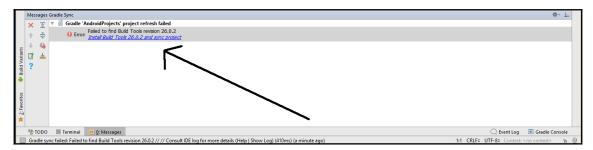




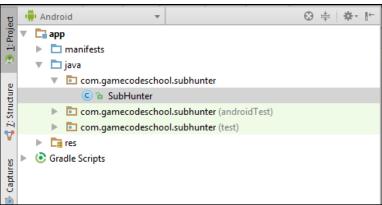


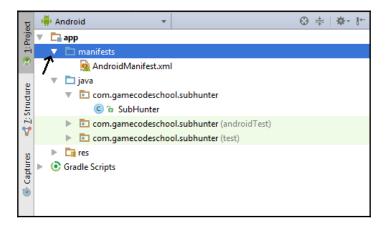




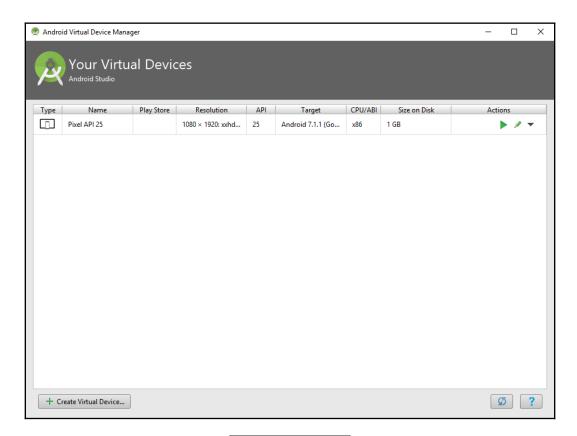






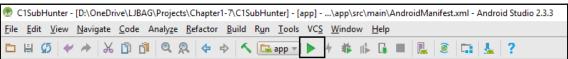


```
AndroidManifest.xml ×
 © SubHunter.java ×
        <?xml version="1.0" encoding="utf-8"?>
      <manifest xmlns:android="http://schemas.android.com/apk/res/android"</pre>
 3
            package="com.gamecodeschool.subhunter">
 4
 5
            <application
 6
                android:allowBackup="true"
                android:icon="@mipmap/ic launcher"
                android:label="Sub Hunter"
 8
               android:roundIcon="@mipmap/ic_launcher_round"
9
               android:supportsRtl="true"
               android:theme="@style/AppTheme">
11
               <activity android:name=".SubHunter">
13
                   <intent-filter>
14
                       <action android:name="android.intent.action.MAIN" />
15
16
                       <category android:name="android.intent.category.LAUNCHER" />
                   </intent-filter>
18
                </activity>
            </application>
19
```





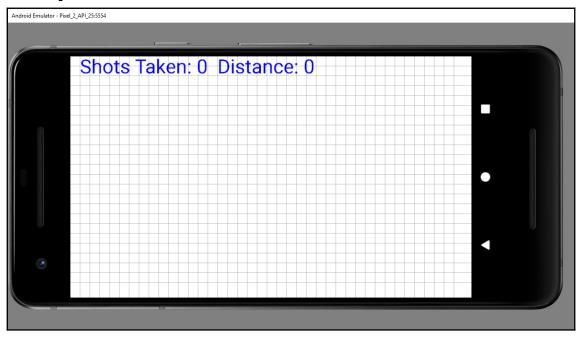


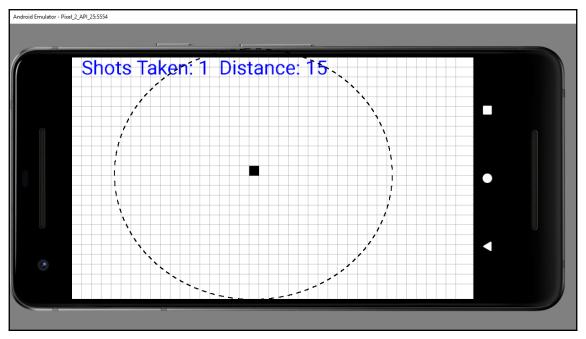






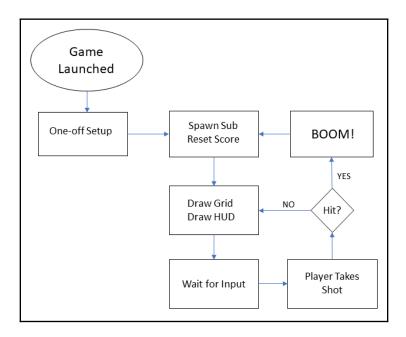
Chapter 2: Java – First Contact

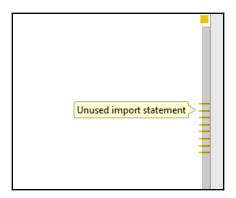


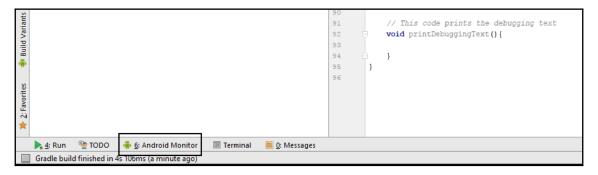


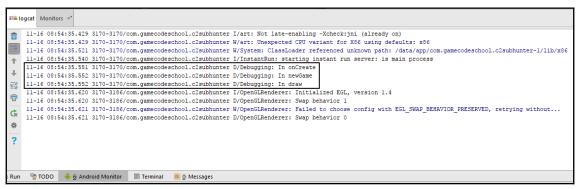


Shots Taken: 1 Distance: 9 numberHorizontalPixels = 1794 numberVerticalPixels = 1080 blockSize = 44 gridWidth = 40 gridHeight = 24 horizontalTouched = 19.0 verticalTouched = 12.0 subHorizontalPosition = 26 subVerticalPosition = 6 hit = false shotsTaken = 1 debugging = true

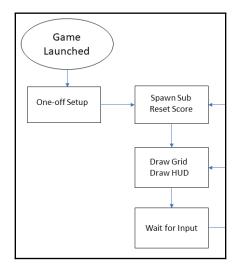




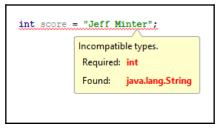




11-16 08:54:35.551 3170-3170/com.gamecodeschool.c2subhunter D/Debugging: In onCreate 11-16 08:54:35.552 3170-3170/com.gamecodeschool.c2subhunter D/Debugging: In newGame 11-16 08:54:35.552 3170-3170/com.gamecodeschool.c2subhunter D/Debugging: In draw



Chapter 3: Variables, Operators, and Expressions

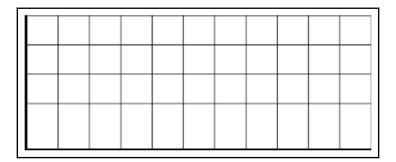


```
int a;
// That's me declared and ready to go?
// The line below attempts to output a to the console
Log.i("debugging", "a = " + a);

Variable 'a' might not have been initialized
```

```
// These are all the classes of other people's
// (Android) code that we use in Sub Hunt

Dimport android.app.Activity;
import android.os.Bundle;
import android.view.MotionEvent;
import android.util.Log;
import android.graphics.Bitmap;
import android.graphics.Canvas;
import android.graphics.Color;
import android.graphics.Paint;
import android.graphics.Point;
import android.view.Display;
import android.widget.ImageView;
Dimport java.util.Random;
```



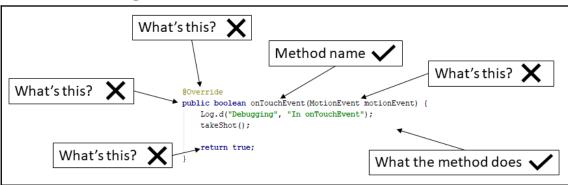
```
int a = 4
```

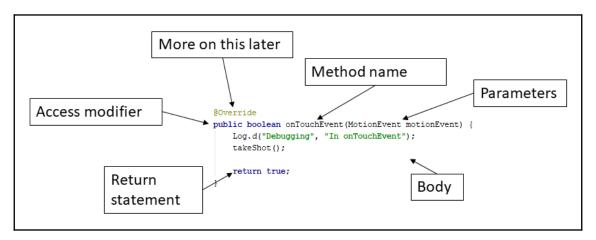
```
inta = 4;

Cannot resolve symbol 'inta'
```



Chapter 4: Structuring Code with Java Methods





```
void someMethod() {

// Don't do this
return 1;

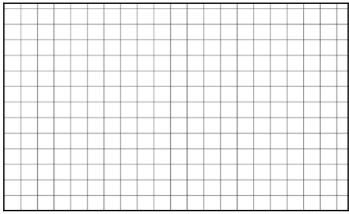
Cannot return a value from a method with void result type
```

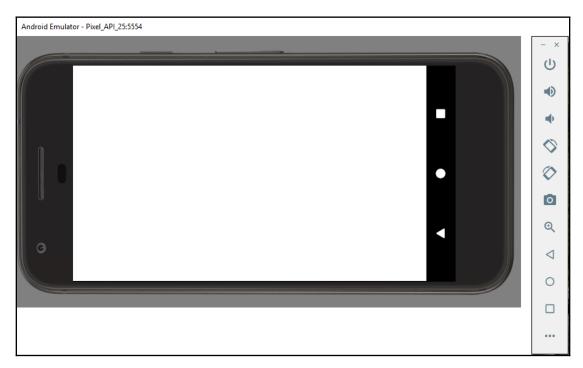


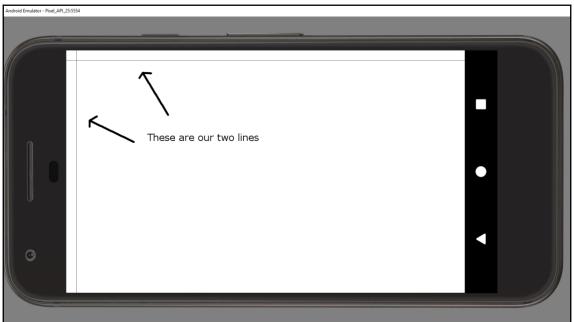
Chapter 5: The Android Canvas Class – Drawing to the Screen





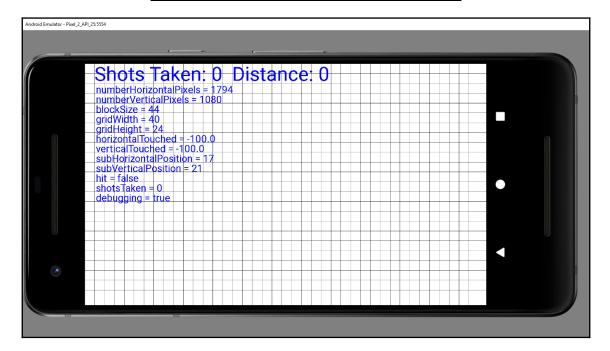




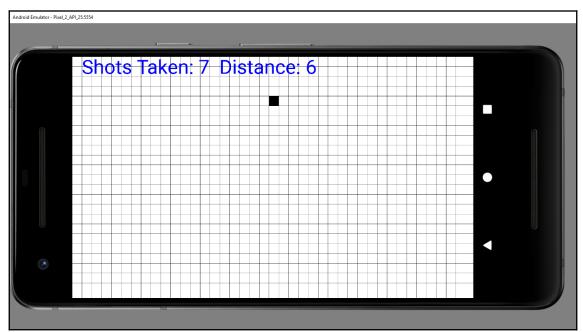




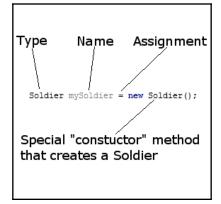
Chapter 6: Repeating Blocks of Code with Loops

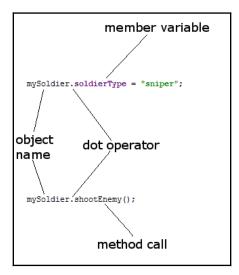


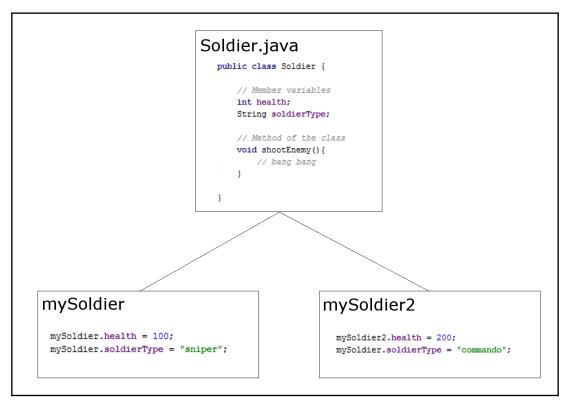
Chapter 7: Making Decisions with Java if, else, and swit ch

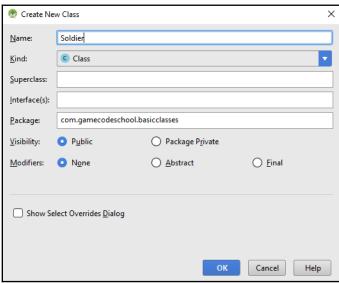


Chapter 8: Object-Oriented Programming









```
Soldier

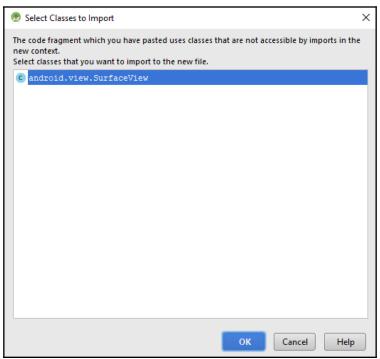
package com.gamecodeschool.basicclasses;

a created by johnh on 08/12/2017.

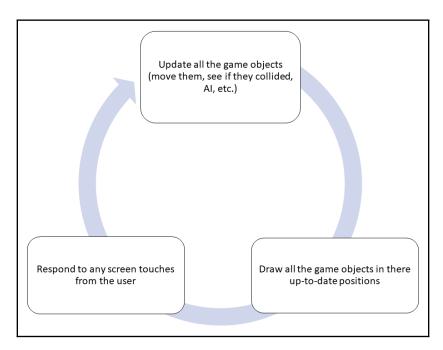
public class Soldier {

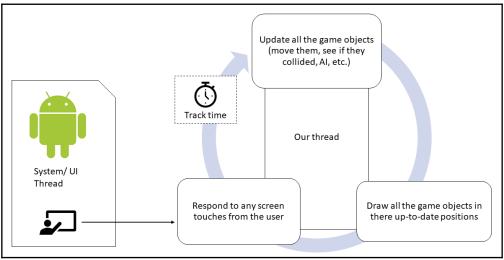
}
```

Chapter 9: The Game Engine, Threads, and the Game L oop



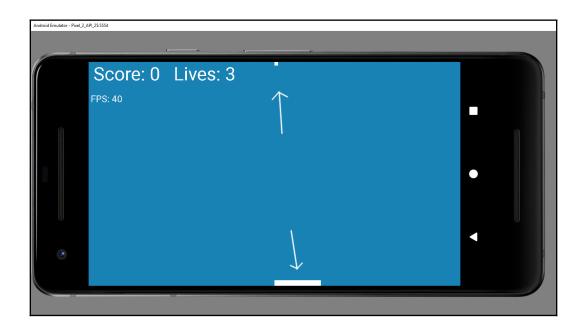






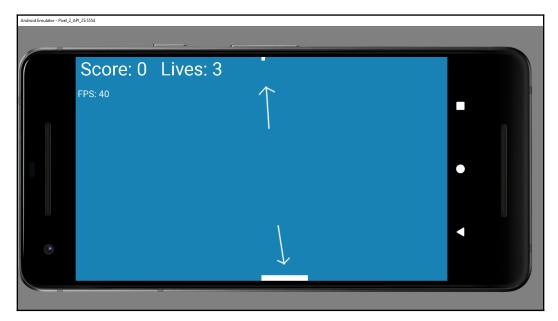


Score: 0 Lives: 3

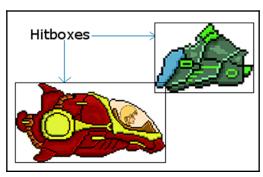


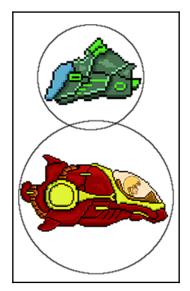
Chapter 10: Coding the Bat and Ball

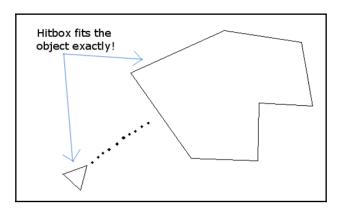


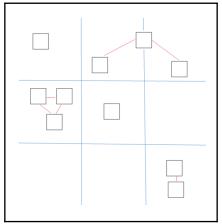


Chapter 11: Collisions, Sound Effects, and Supporting Different Versions of Android







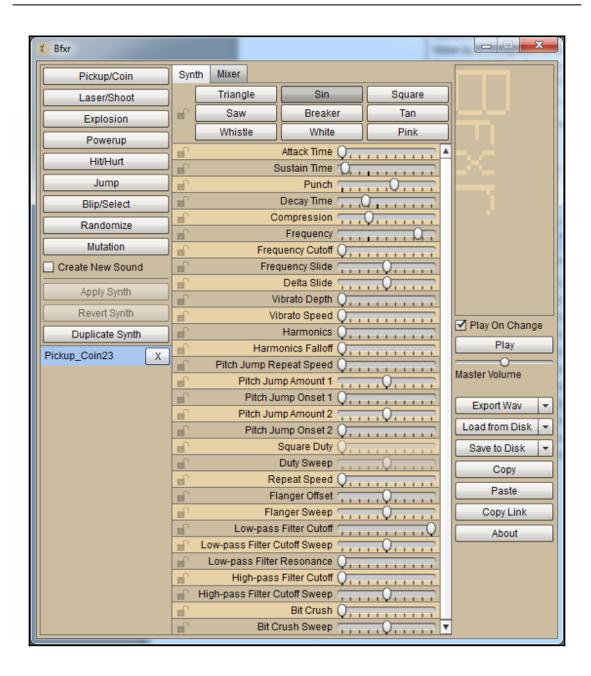


SoundPool

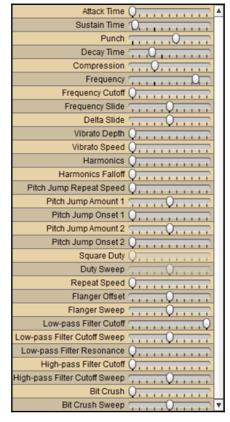
SoundPool (int maxStreams, int streamType, int srcQuality)

This constructor was deprecated in API level 21.

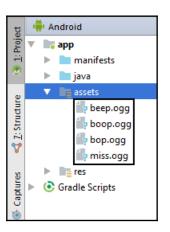
use SoundPool.Builder instead to create and configure a SoundPool instance









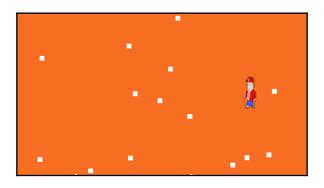




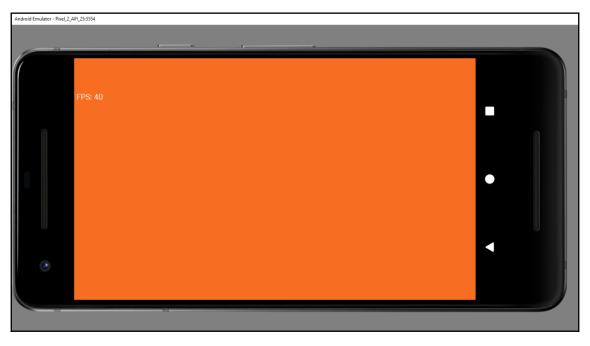
Chapter 12: Handling Lots of Data with Arrays

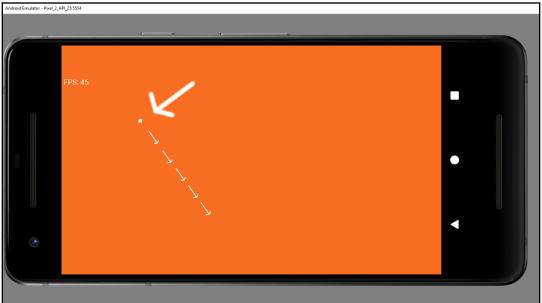


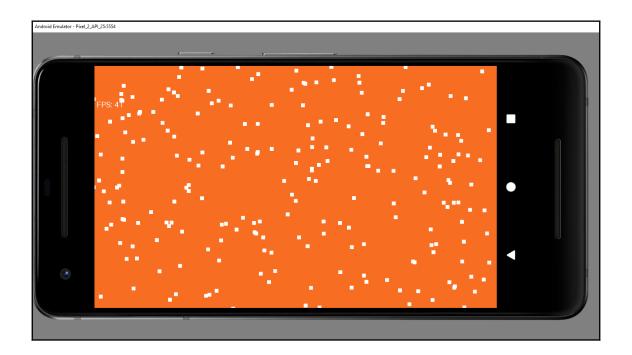




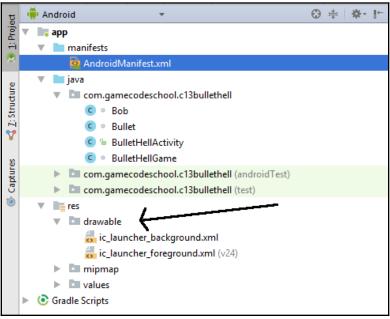








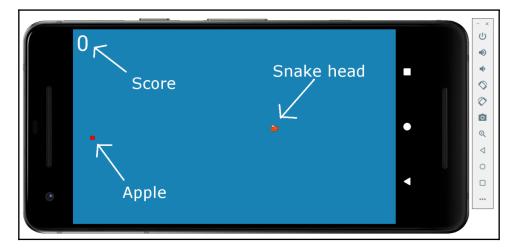
Chapter 13: Bitmap Graphics and Measuring Time

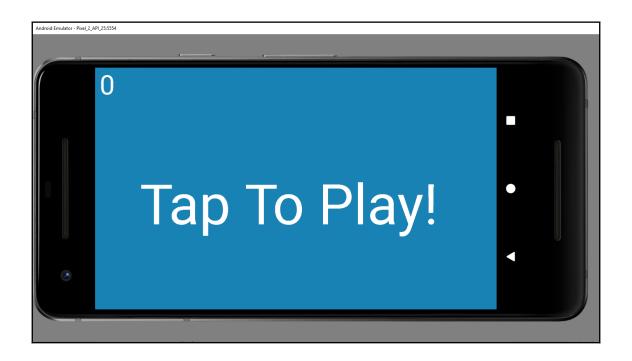




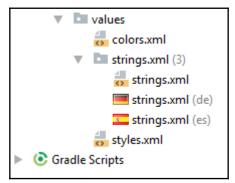
Capter 14: Java Collections, the Stack, the Heap, and the e Garbage Collector







Chapter 15: Android Localization – Hola!

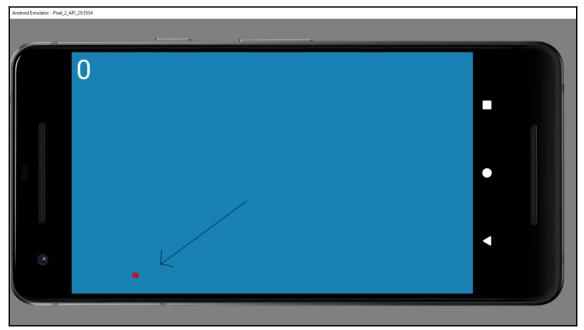








Chapter 16: Collections, Generics, and Enumerations



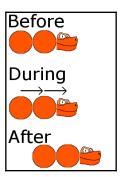
Chapter 17: Manipulating Bitmaps and Coding the Snake Class

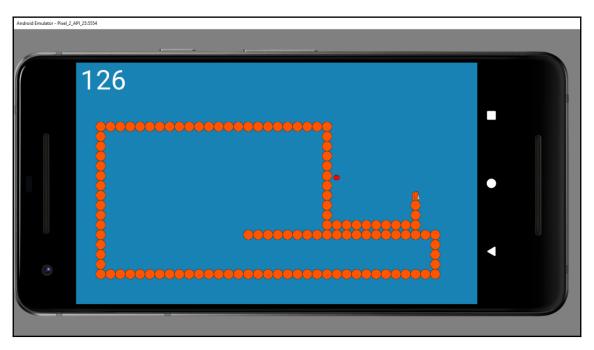


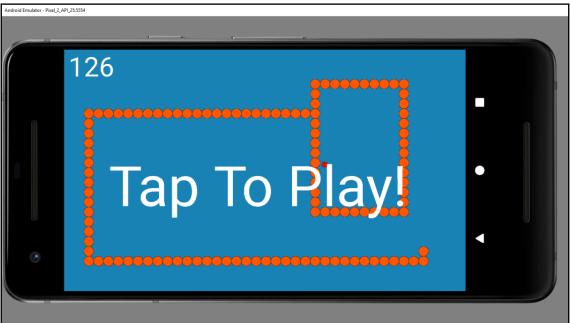




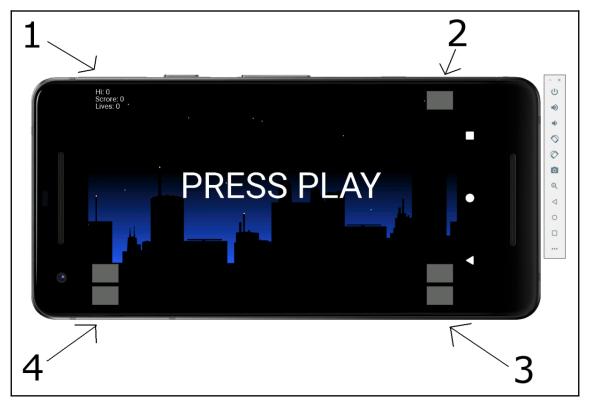








Chapter 18: Introduction to Design Patterns and Much More!



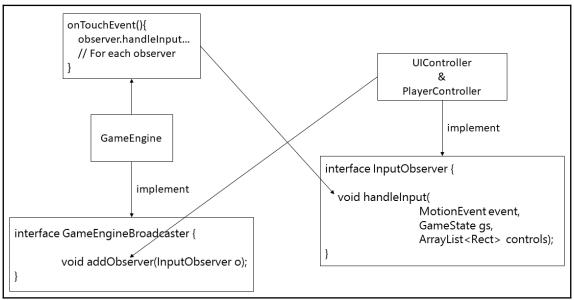


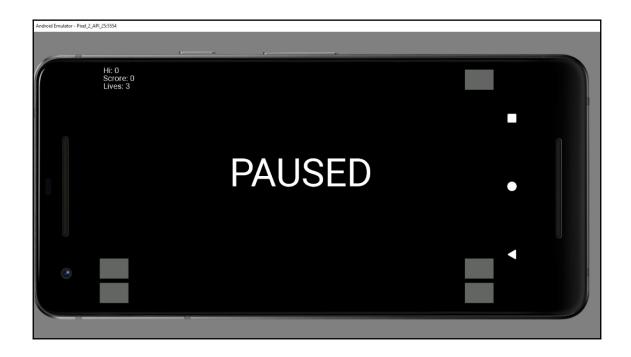


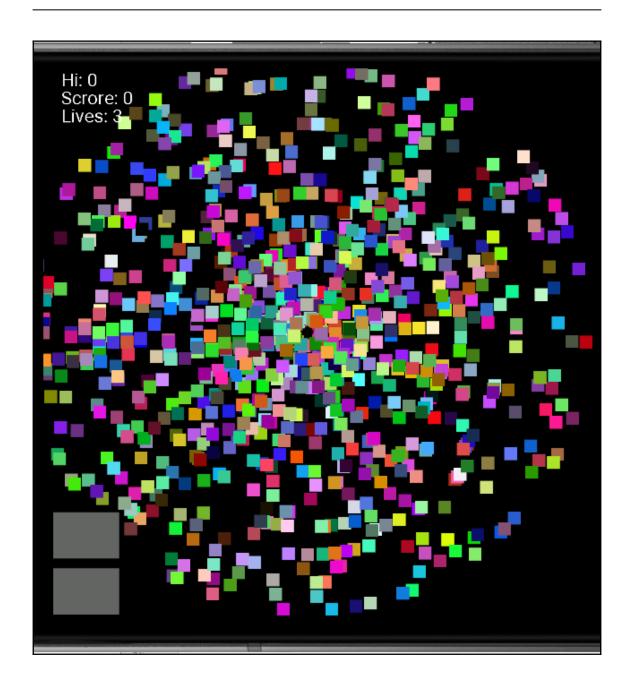


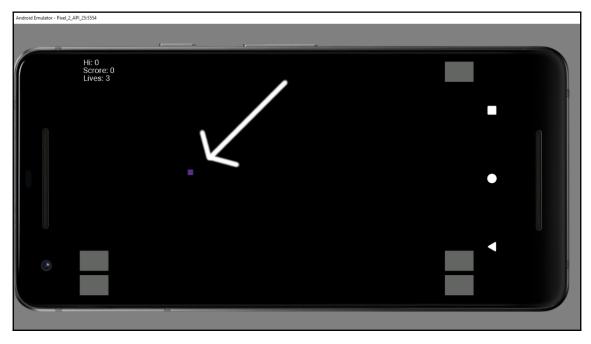


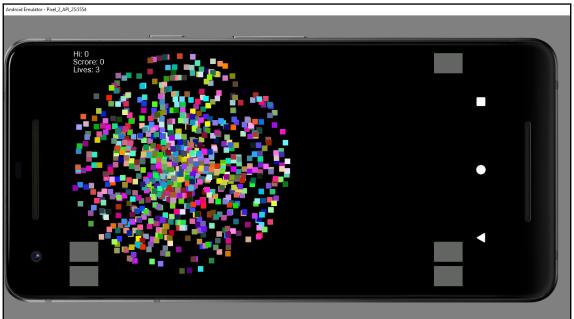
Chapter 19: Listening with the Observer Pattern, Multito uch, and Building a Particle System







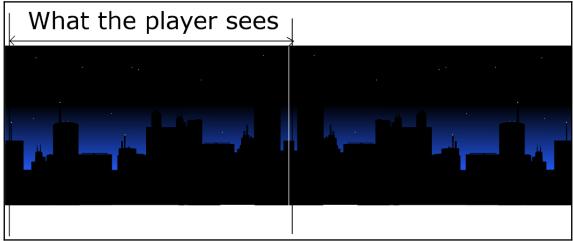


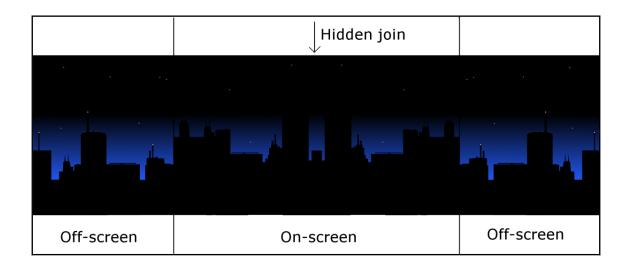


Chapter 20: More Patterns, a Scrolling Background, and Building the Player's Ship







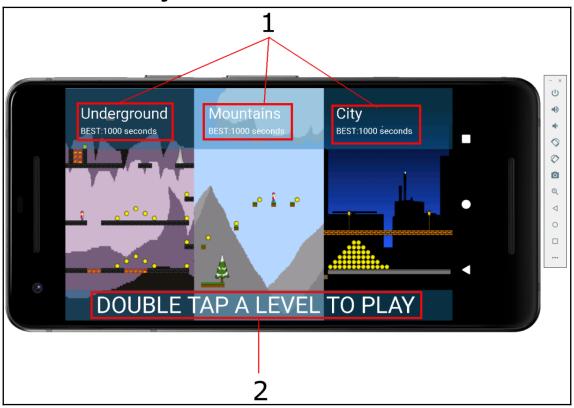


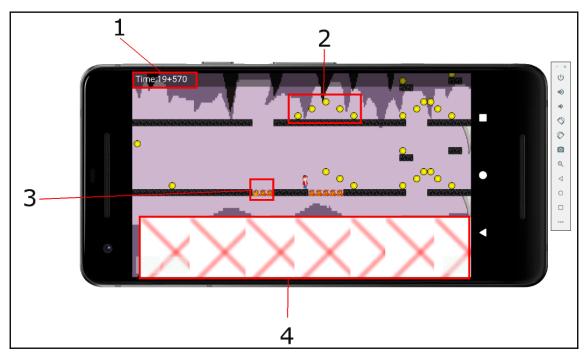
Chapter 21: Completing the Scrolling Shooter Game

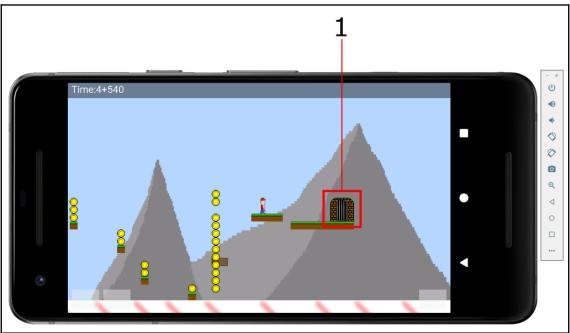




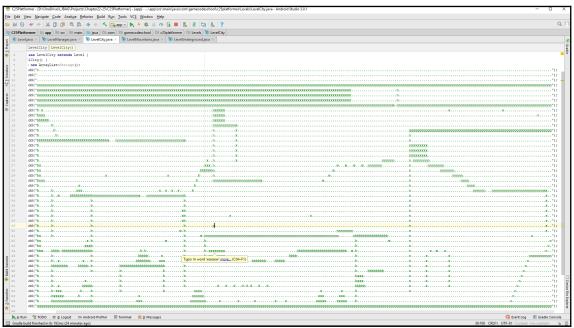
Chapter 22: Exploring More Patterns and Planning the Platformer Project

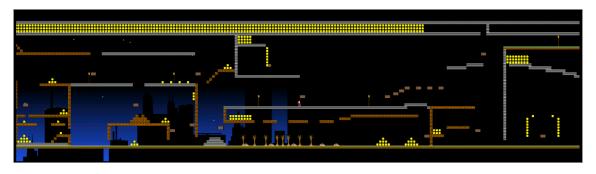


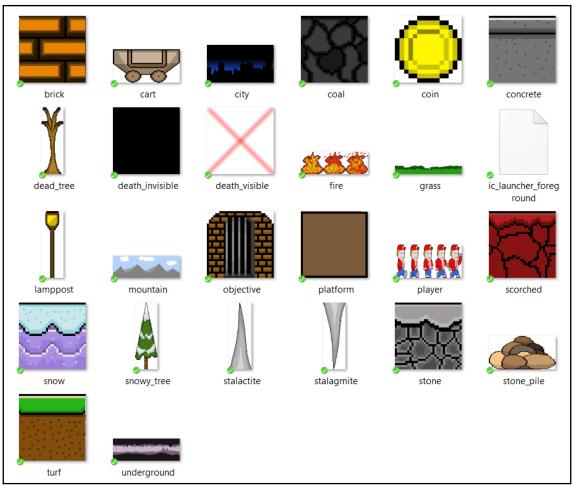


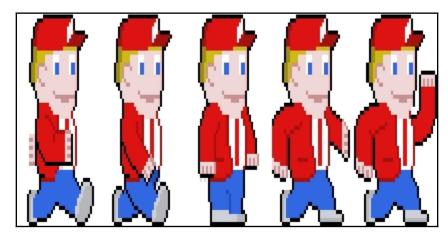




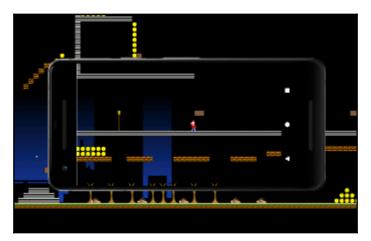






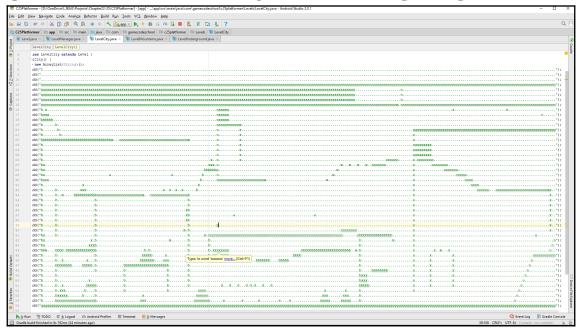


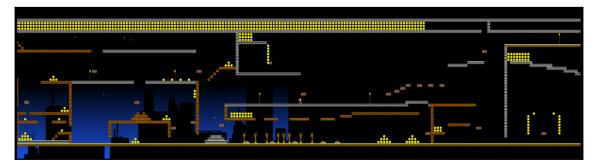




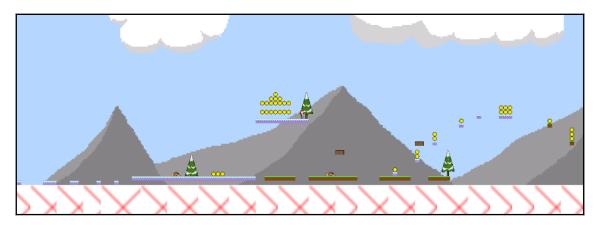
Chapter 23:

The Singleton Pattern, Java HashMap, Storin g Bitmaps Efficiently, and Designing Levels

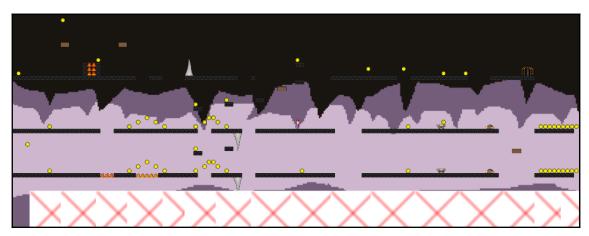




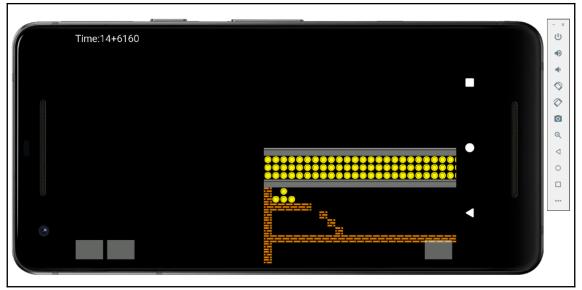
tiles.add(");	
tiles.add("");	
tiles.add(");	
tiles.add("");	
tiles.add(");	
tiles.add("");	
tiles.add("xexe.	
tiles.add("xxx	
tiles.add("xxxxxxx	
tiles.add("	
tiles.add("xxxxxxx	
tiles.add("	
tiles.add("nnnnnnnnnnnnn	
tiles.add("m	
tiles.add("	
tiles.add("e	
tiles.add("	
tiles.add("	
tiles.add("	
tiles.add("pssxxxsxxxs	
tiles.add("ggggggggggggggggg	
tiles.add("wwwwwwwww	
tiles.add("yyyyyyyyyy.	$\cdots \cdot y \cdot \cdots \cdot y \cdot y$

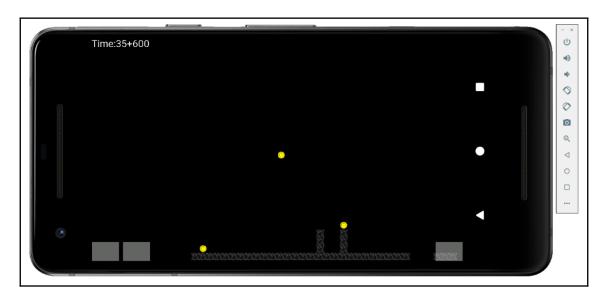


LevelUnderground LevelUnderground()		
1	package com.gamecodeschool.c25platformer.Levels;	
2		
3	<pre>import java.util.ArrayList;</pre>	
5	public final class LevelUnderground extends Level {	
6	public LevelUnderground() {	
7	tiles = new ArrayList(String>():	
8	tiles.add("2	
9	tiles.add("	
10	tiles.add("	
11	tiles.add("x.);
12	tiles.add(");
13	tiles.add("mmm);
14	tiles.add("	
15	tiles.add("	
16	tiles.add("	
17	tiles.add("	
18	tiles.add("	
19	tiles.add("	
20	tiles.add("xx	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
21	tiles.add("1221	
22	tiles.add("lzzl	
23	tiles.add(".xmm	
24	tiles.add("11111111111111111111111111111111111	
25	tiles.add("11	
26	tiles.add("	
27	tiles.add("	
28	tiles.add("x. 11	
30	tiles.add("xllxllxllxllxllxllxllxllxllxllxll	
31	tiles.add("	
32	tiles.add("	
33	tiles.add(" x .xx	
34	tiles.add(".p. x. x. x. x. x.	
35	tiles.add("xxxxxxxxx.	
36	tiles.add("11111111111111111111111111111111111	
37	tiles.add(" i	
38	tiles.add("	
39	tiles.add(".x.	
40	tiles.add(" x 11	
41	tiles.add(" 11	."):
42	tiles.add("	
43	tiles.add("xxx.	
44	tiles.add("xxxxx.	x");
45	tiles.add("xxxxxxxx	x.x.xxxxxxxxx");
46	tiles.add("111111111111111111zzz11111zzzzz11111111	
47	tiles.add("i.);
48	tiles.add("	");
49	tiles.add("	");
50	${\tt tiles.add}("\ldots y \ldots y$	yyyyyyyy
51		
52	} }	



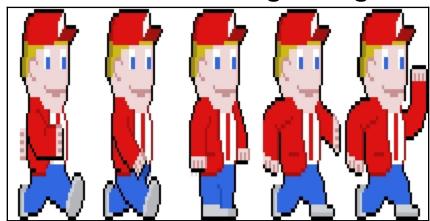


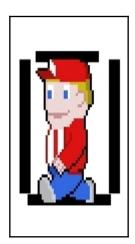


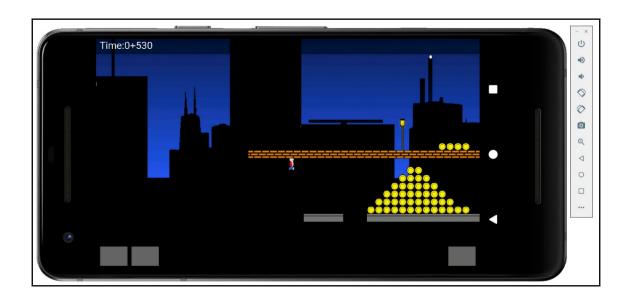




Chapter 24: Sprite Sheet Animations, the Controllable Pl ayer, and Parallax Scrolling Backgrounds







Chapter 25: Intelligent Platforms and Advanced Collision Detection

