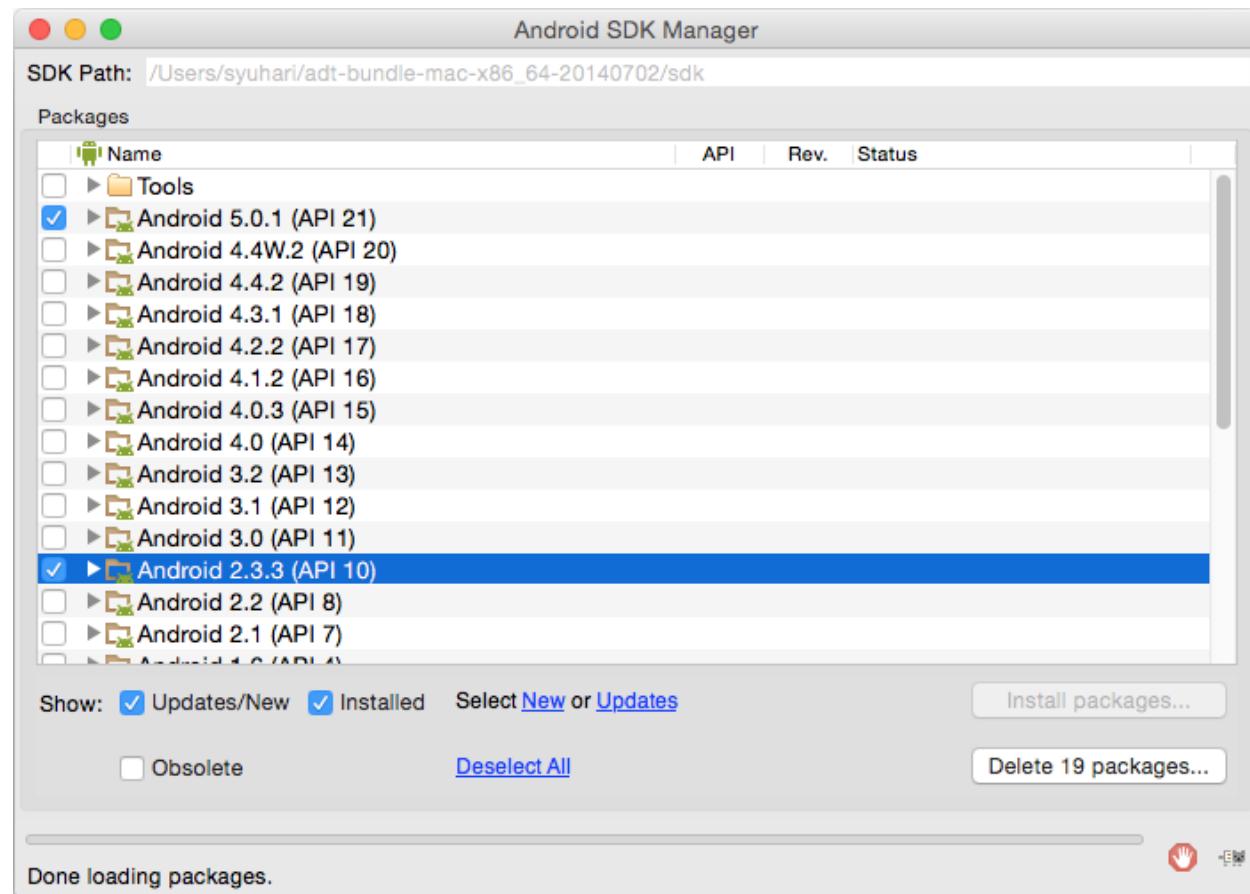
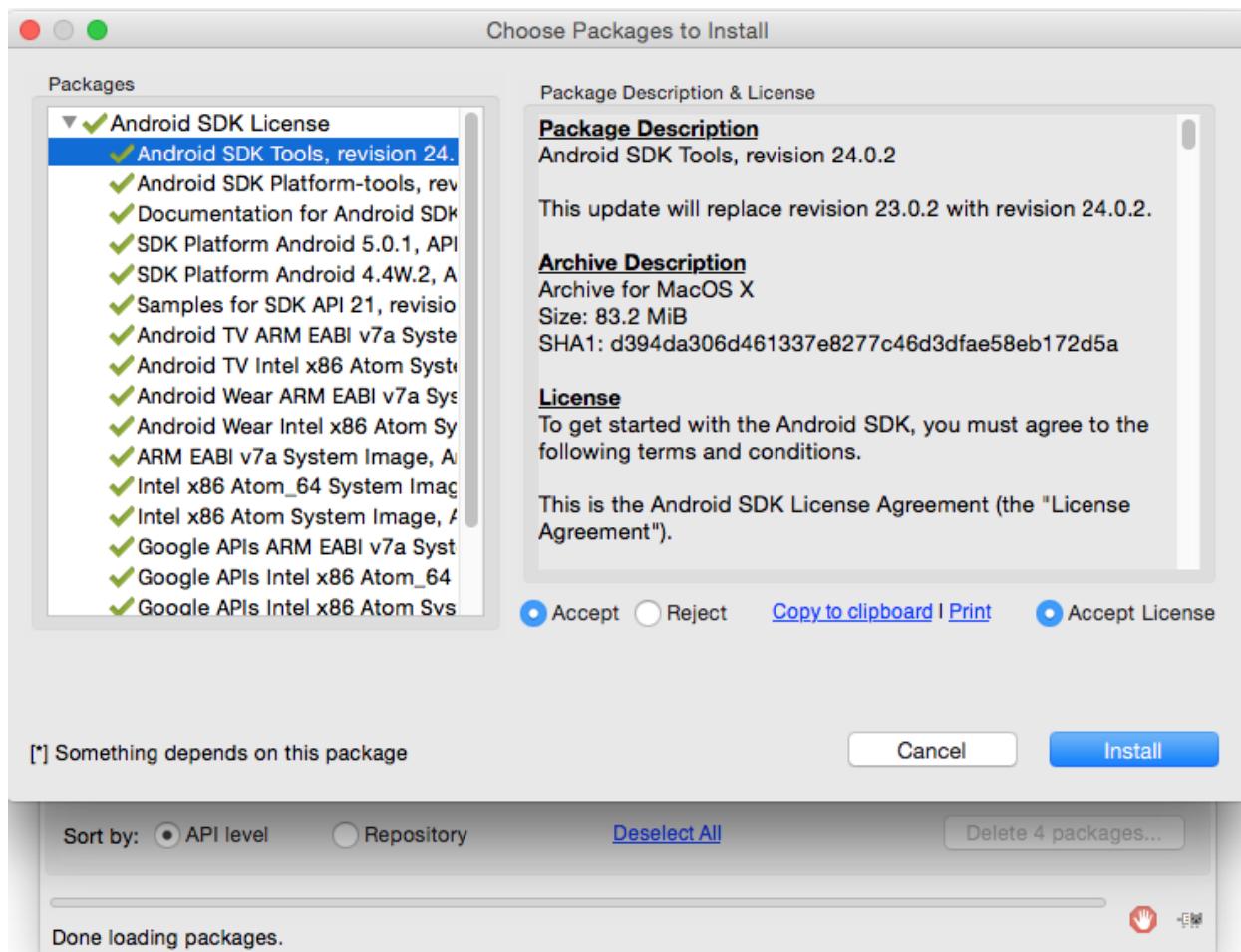


## Chapter

### 1





```
syuhari ~$ java -version
java version "1.6.0_65"
Java(TM) SE Runtime Environment (build 1.6.0_65-b14-466.1-11M4716)
Java HotSpot(TM) 64-Bit Server VM (build 20.65-b04-466.1, mixed mode)
syuhari ~$
```

```
syuhari cocos2d-x-3.4$ source ~/.bash_profile
syuhari cocos2d-x-3.4$ cocos

/Users/syuhari/cocos2d-x-3.4/tools/cocos2d-console/bin/cocos.py 1.5 - cocos console: A command line tool for cocos2d-x

Available commands:
    run          Compiles & deploy project and then runs it on the target
    luacompiler  minifies and/or compiles lua files
    deploy        Deploy a project to the target
    package       Do a package operation
    compile       Compiles the current project to binary
    framework     Do a framework operation
    new          Creates a new project
    jscompile    minifies and/or compiles js files

Available arguments:
    -h, --help      Show this help information
    -v, --version   Show the version of this command tool

Example:
    /Users/syuhari/cocos2d-x-3.4/tools/cocos2d-console/bin/cocos.py new --he
lp
    /Users/syuhari/cocos2d-x-3.4/tools/cocos2d-console/bin/cocos.py run --he
```

```
syuhari cocos2d-x-3.4$ cocos new MyGame -p jp.syuhari.mygame -l cpp -d ~/Documents/  
Running command: new  
> Copy template into /Users/syuhari/Documents/MyGame  
> Copying cocos2d-x files...  
> Rename project name from 'HelloCpp' to 'MyGame'  
> Replace the project name from 'HelloCpp' to 'MyGame'  
> Replace the project package name from 'org.cocos2dx.hellocpp' to 'jp.syuhari.m  
ygame'  
> Replace the mac bundle id from 'org.cocos2dx.hellocpp' to 'jp.syuhari.mygame'  
> Replace the ios bundle id from 'org.cocos2dx.hellocpp' to 'jp.syuhari.mygame'  
syuhari cocos2d-x-3.4$
```

```
cocos2d-x-3.4 — bash — 80x24
Touch /Users/syuhari/Documents/MyGame/bin/debug/ios/MyGame\ iOS.app
cd /Users/syuhari/Documents/MyGame/proj.ios_mac
export PATH="/Applications/Xcode.app/Contents/Developer/Platforms/iPhoneSimulator.platform/Developer/usr/bin:/Applications/Xcode.app/Contents/Developer/usr/bin:/usr/local/Cellar/ant/1.9.2/libexec/bin:/Users/syuhari/adt-bundle-mac-x86_64-20140702/sdk/tools:/Users/syuhari/adt-bundle-mac-x86_64-20140702/sdk/platform-tools:/Users/syuhari/adt-bundle-mac-x86_64-20140702/sdk:/Users/syuhari/android-ndk-r10c:/Users/syuhari/cocos2d-x-3.4/templates:/Users/syuhari/cocos2d-x-3.4/tools/cocos2d-console/bin:/usr/local/bin:/usr/bin:/bin:/usr/sbin:/sbin"
/usr/bin/touch -c /Users/syuhari/Documents/MyGame/bin/debug/ios/MyGame\ iOS.app

** BUILD SUCCEEDED **

build succeeded.
Running command: deploy
Deploying mode: debug
Running command: run
starting application
running: '/Users/syuhari/cocos2d-x-3.4/tools/cocos2d-console/plugins/project_run/bin/ios-sim-xcode6 launch "/Users/syuhari/Documents/MyGame/bin/debug/ios/MyGame iOS.app" &'

syuhari cocos2d-x-3.4$
```

iOS Simulator - iPhone 4s - iPhone 4s / iOS 8.1 (12B411)

Hello World



GL verts: 78  
GL calls: 3  
59.7 / 0.009



The screenshot shows the Xcode interface with the following details:

- Project Navigator:** Shows the project structure with targets for "MyGame iOS" and "iPhone 6".
- File Navigator:** Shows files like AppDelegate.cpp, AppDelegate.h, HelloWorldScene.cpp, and HelloWorldScene.h.
- Editor:** Displays the content of HelloWorldScene.cpp. The code implements the `createScene` method and initializes the scene with a menu item to quit the program.
- Identity & Type:** Shows the file is named `HelloWorldScene.cpp`, type is `C++ Source`, and location is relative to the group.
- Target Membership:** Both "MyGame iOS" and "MyGame Mac" are selected.
- Text Settings:** Encoding is set to `UTF-8`.
- Source Control:** Repository, Type, and Current Branch are listed.
- Quick Help:** Shows "Cocoa Touch Class - A Cocoa Touch class".
- Test Case Class:** Shows "Test Case Class - A class implementing a unit test".
- Playground:** Shows "Playground - A Playground".

```
#include "HelloWorldScene.h"

USING_NS_CC;

Scene* HelloWorld::createScene()
{
    // 'scene' is an autorelease object
    auto scene = Scene::create();

    // 'layer' is an autorelease object
    auto layer = HelloWorld::create();

    // add layer as a child to scene
    scene->addChild(layer);

    // return the scene
    return scene;
}

// on "init" you need to initialize your instance
bool HelloWorld::init()
{
    //////////////////////////////
    // 1. super init first
    if (!Layer::init())
    {
        return false;
    }

    Size visibleSize = Director::getInstance()->getVisibleSize();
    Vec2 origin = Director::getInstance()->getVisibleOrigin();

    /////////////////////////////
    // 2. add a menu item with "X" image, which is clicked to quit the program
    // you may modify it.

    // add a "close" icon to exit the progress. it's an autorelease object
    auto closeItem = MenuItemImage::create(
                                         "CloseNormal.png",
                                         "CloseSelected.png",
                                         CC_CALLBACK_1(HelloWorld::menuCloseCallback, this));

    closeItem->setPosition(Vec2(origin.x + visibleSize.width - closeItem->getContentSize().width/2,
                                 origin.y + closeItem->getContentSize().height/2));

    // create menu, it's an autorelease object
    auto menu = Menu::create(closeItem, NULL);
    menu->setPosition(Vec2::ZERO);
    this->addChild(menu, 1);

    /////////////////////////////
    // 3. add your codes below...
}

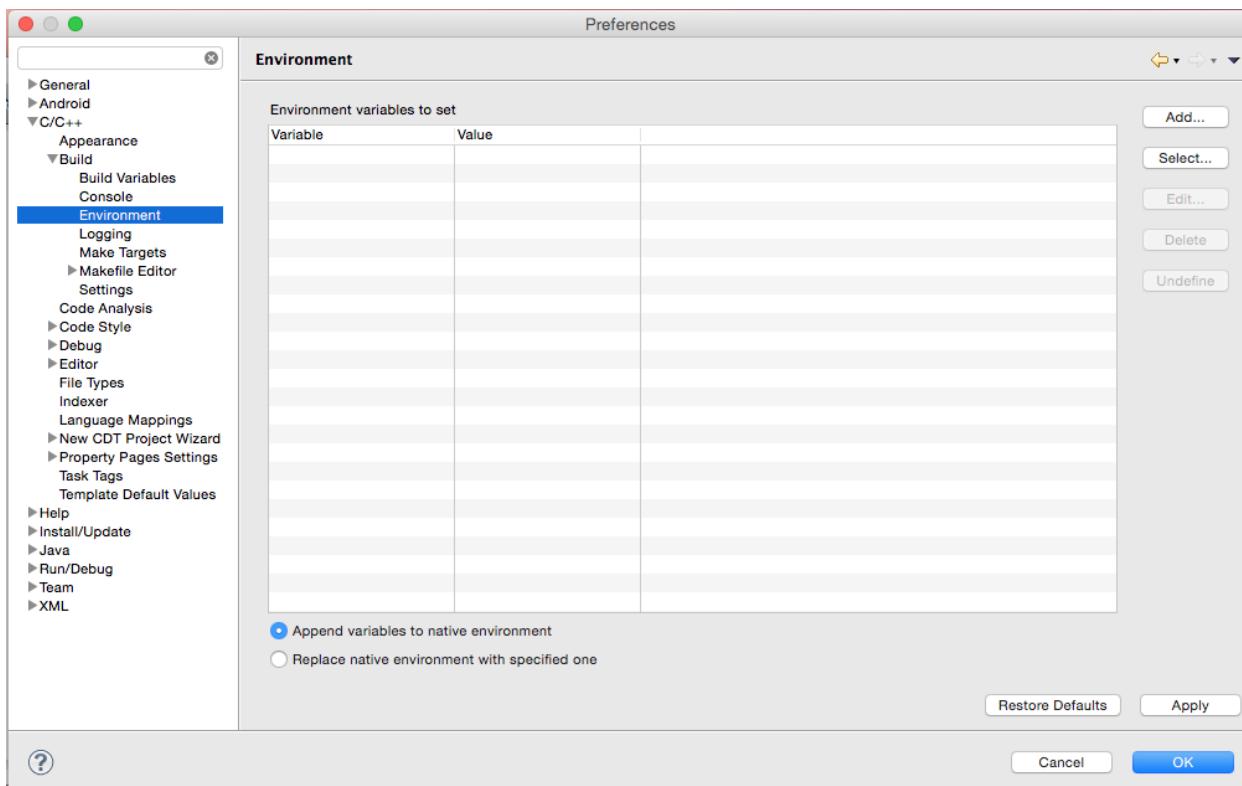
// add a label shows "Hello World"
// create and initialize a label
auto label = Label::createWithTTF("Hello World", "fonts/Marker Felt.ttf", 24);

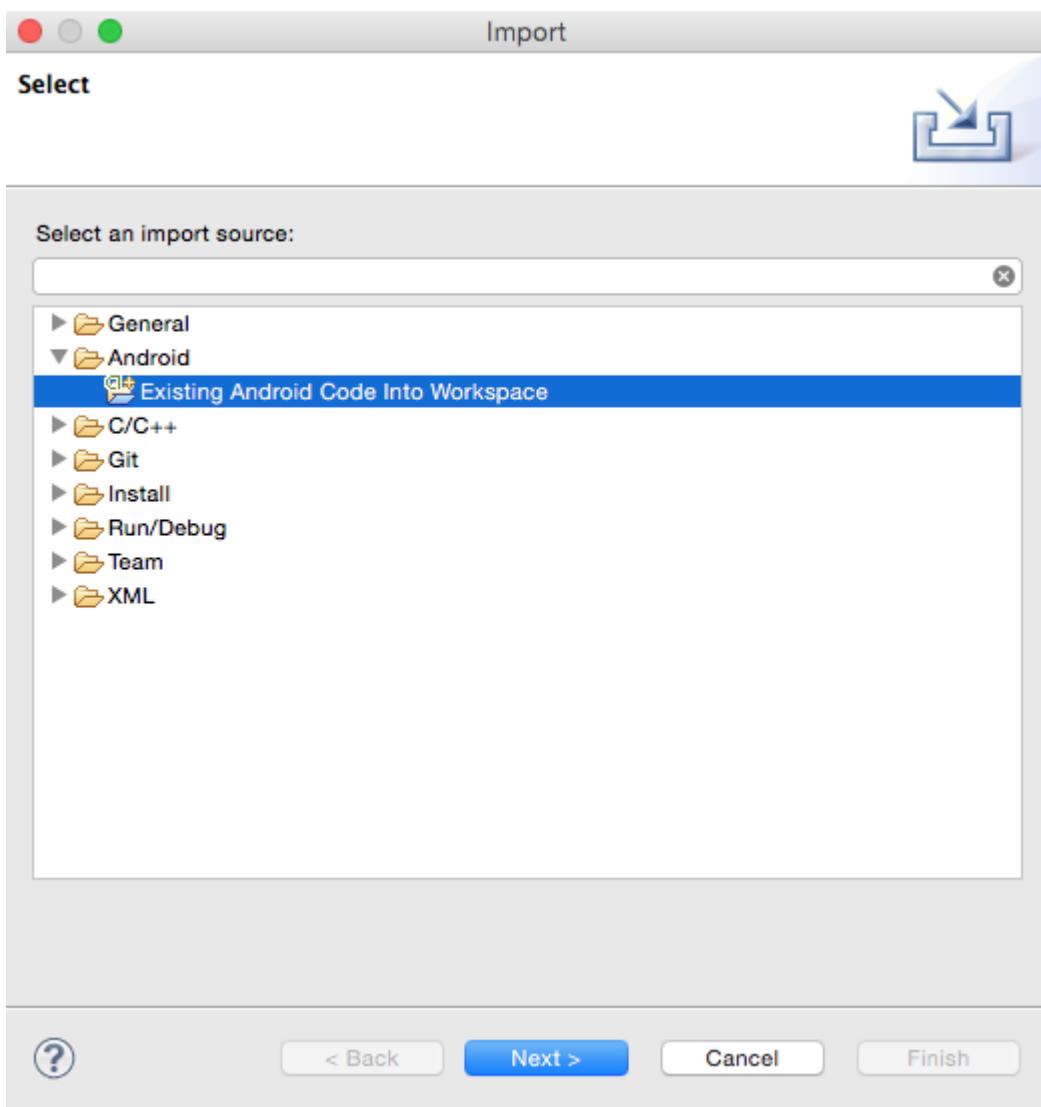
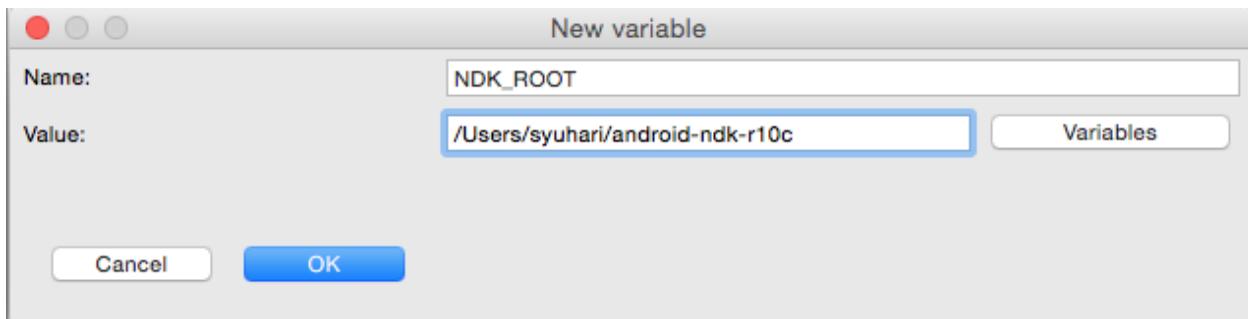
// position the label on the center of the screen
label->setPosition(Vec2(origin.x + visibleSize.width/2,
                        origin.y + visibleSize.height - label->getContentSize().height));

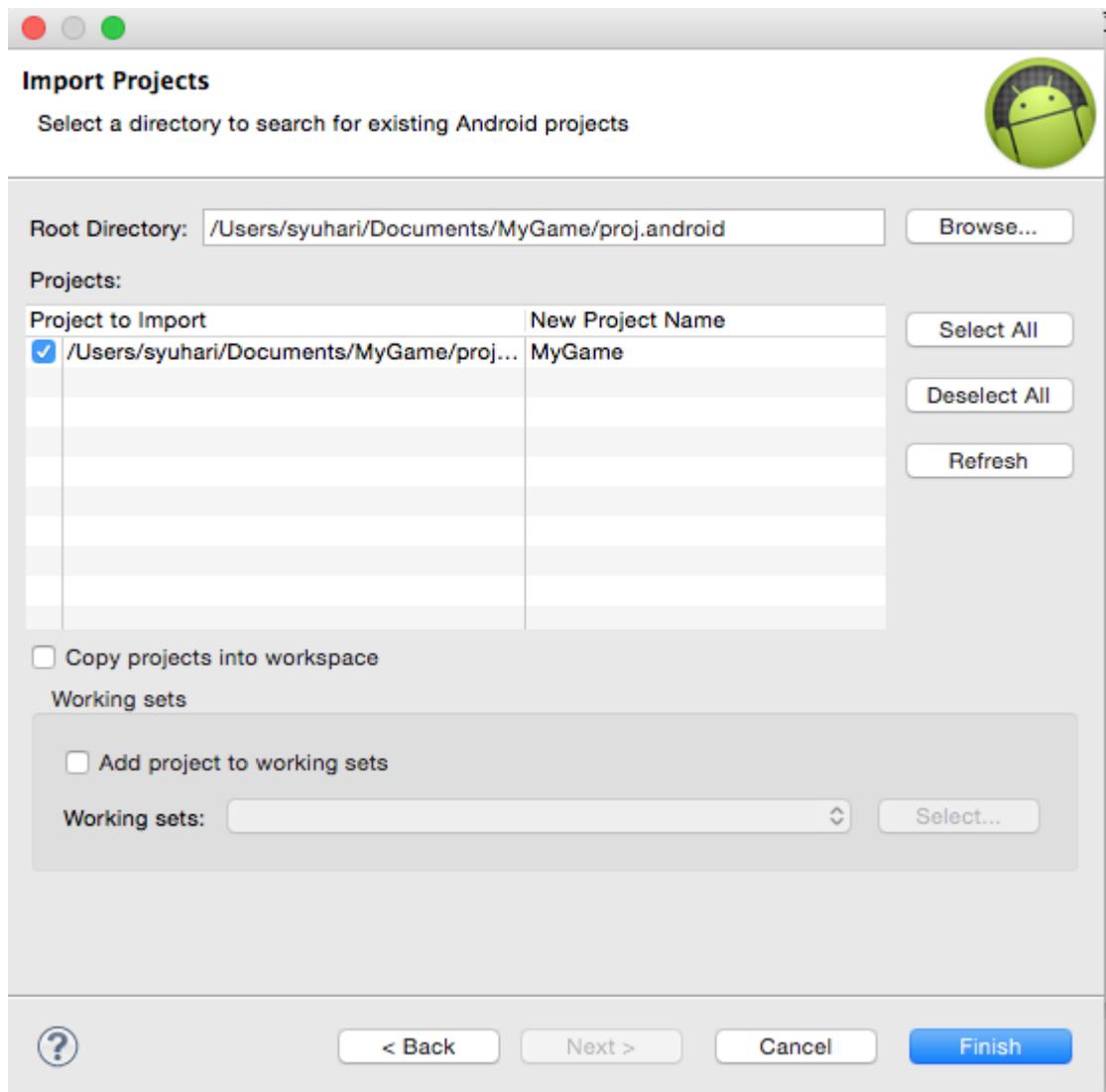
// add the label as a child to this layer
this->addChild(label, 1);

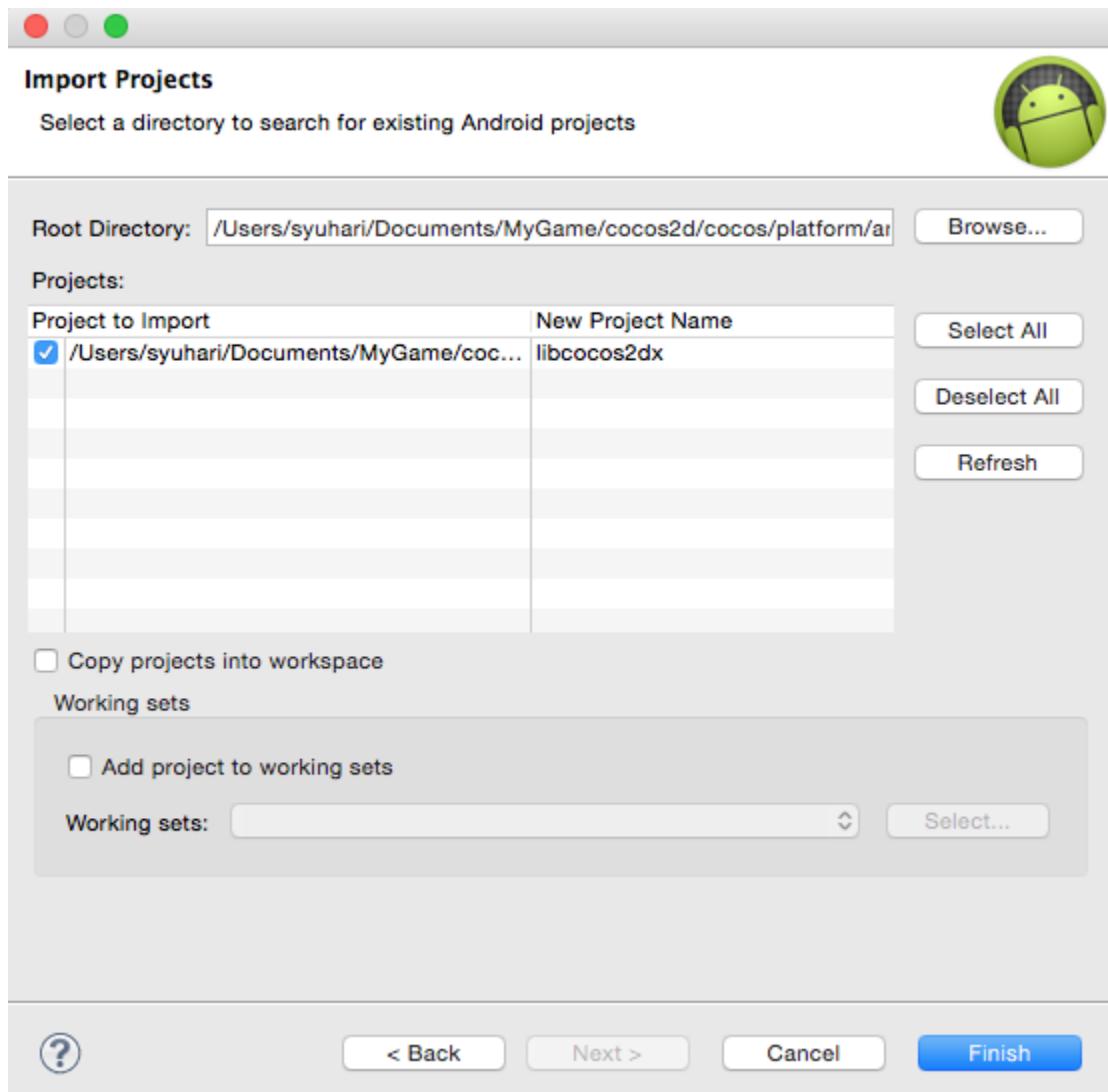
// add "HelloWorld" splash screen
auto sprite = Sprite::create("HelloWorld.png");

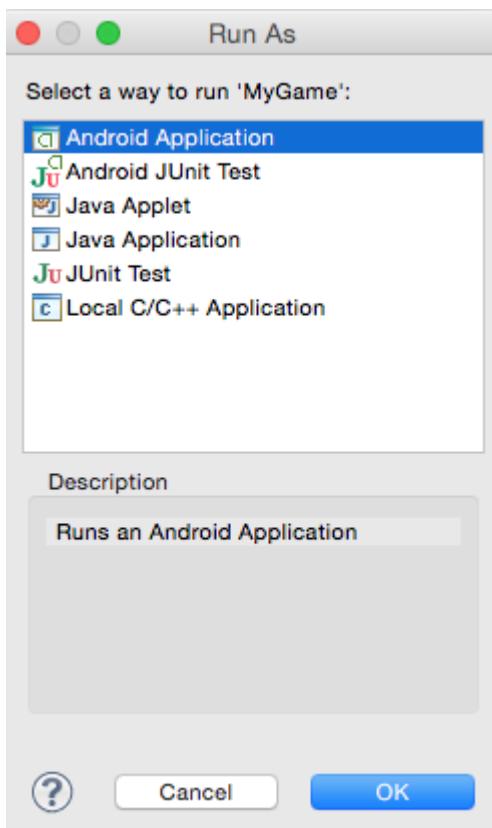
// position the sprite on the center of the screen
```











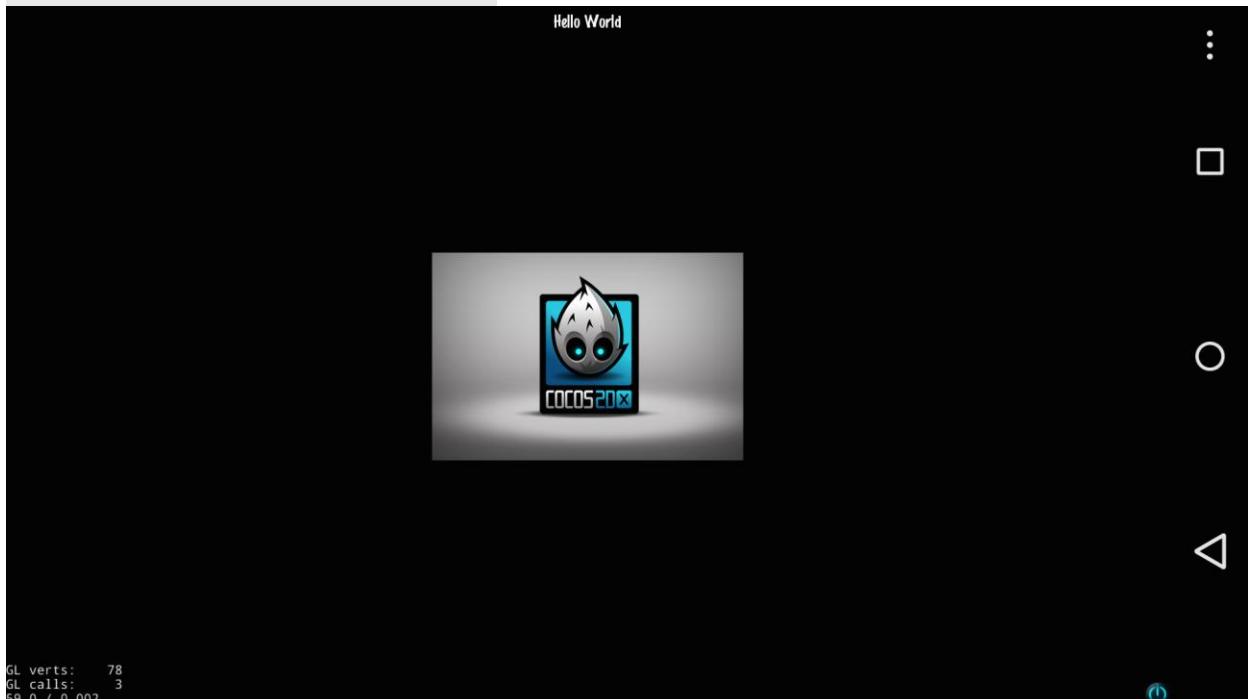
Description

Runs an Android Application

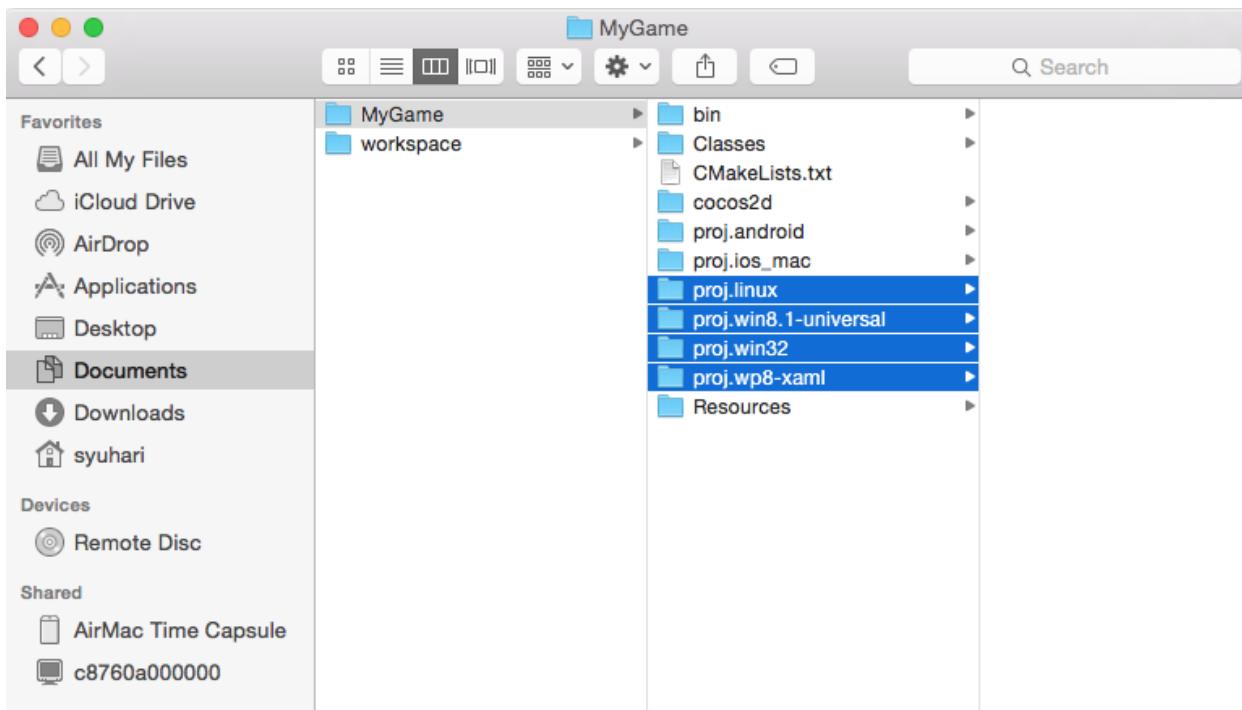
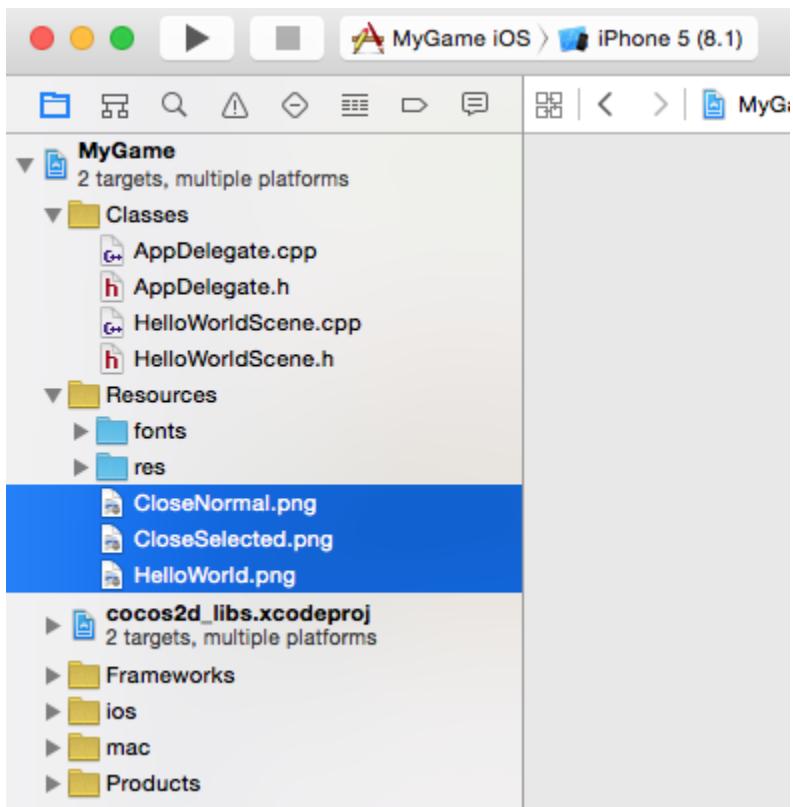


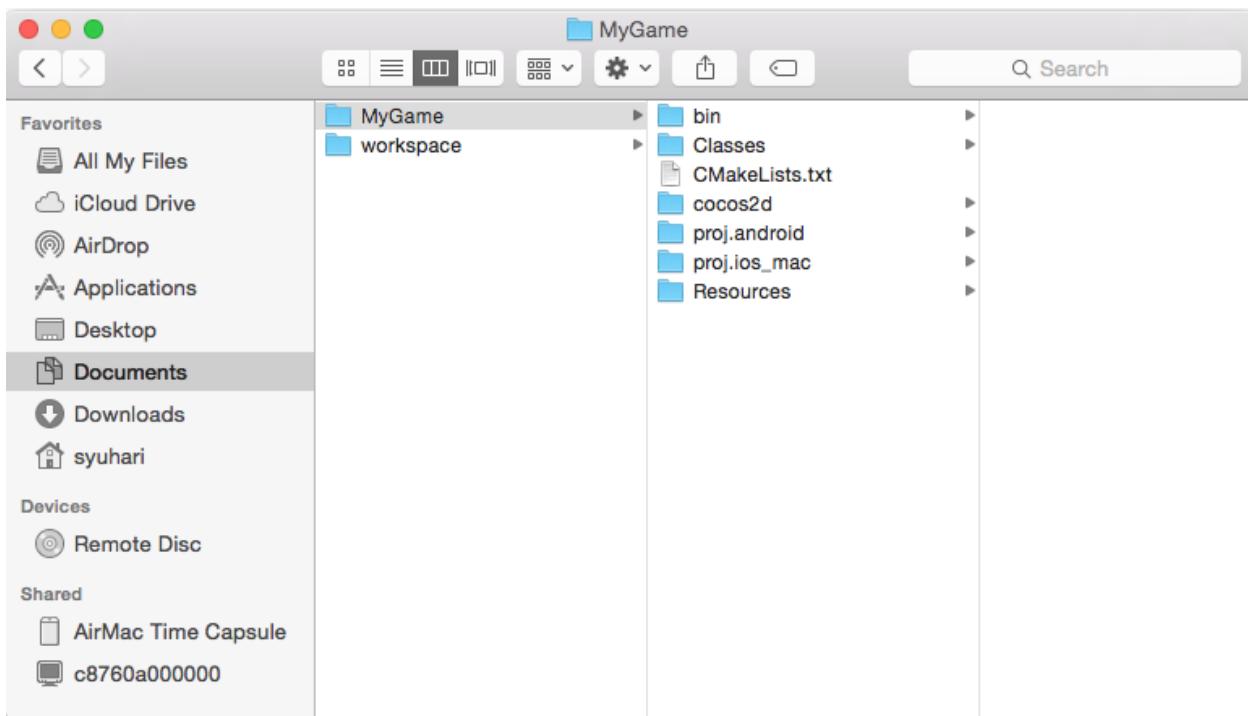
Cancel

OK

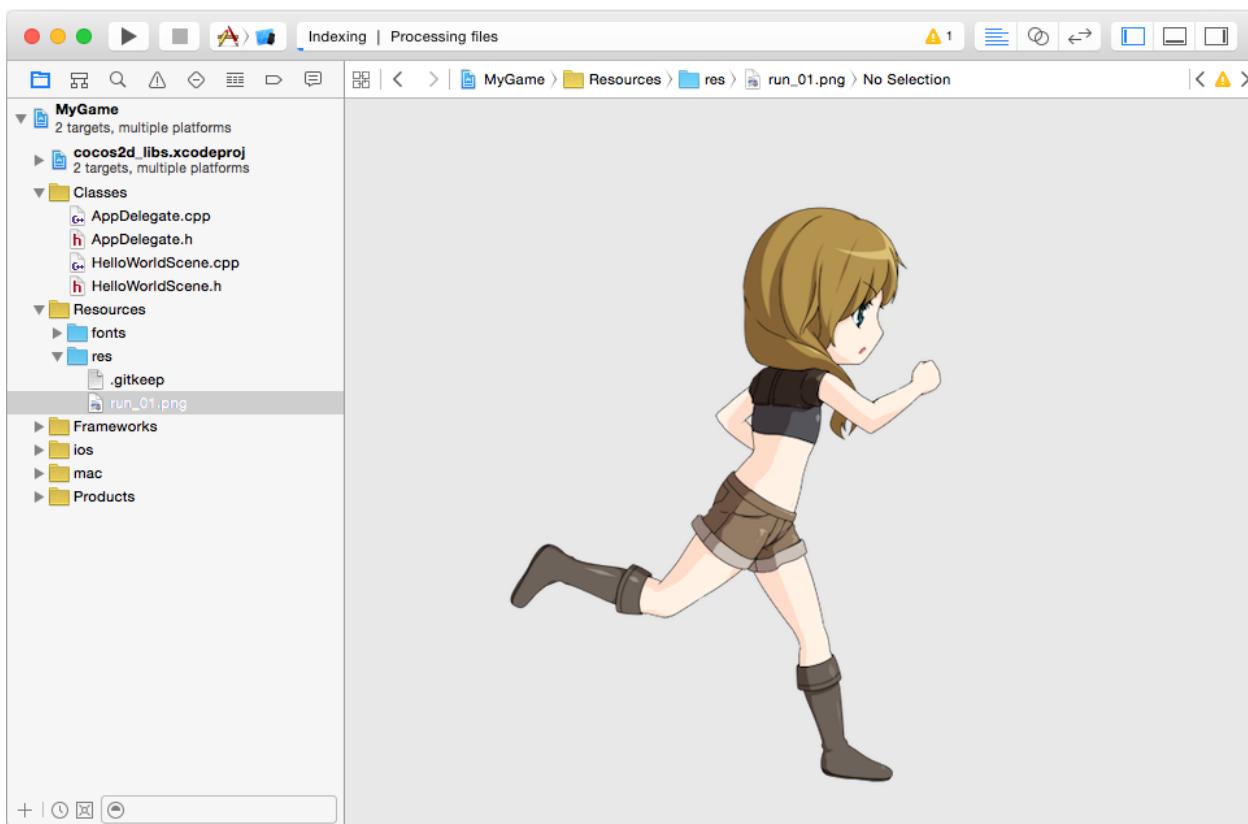








## Chapter 2

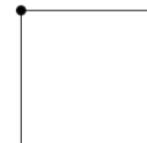
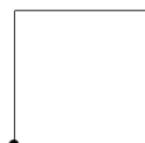
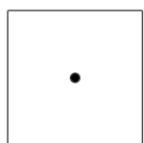


iOS Simulator - iPhone 5 - iPhone 5 / iOS 8.1 (12B411)

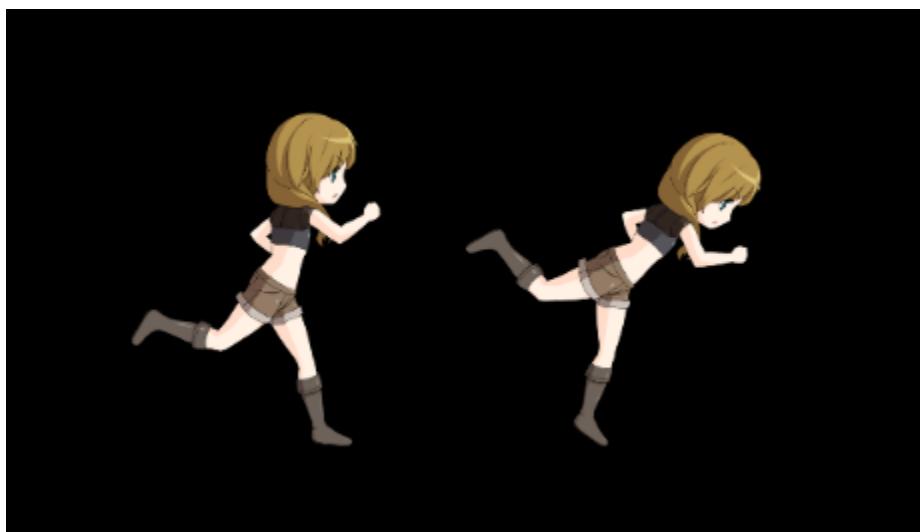


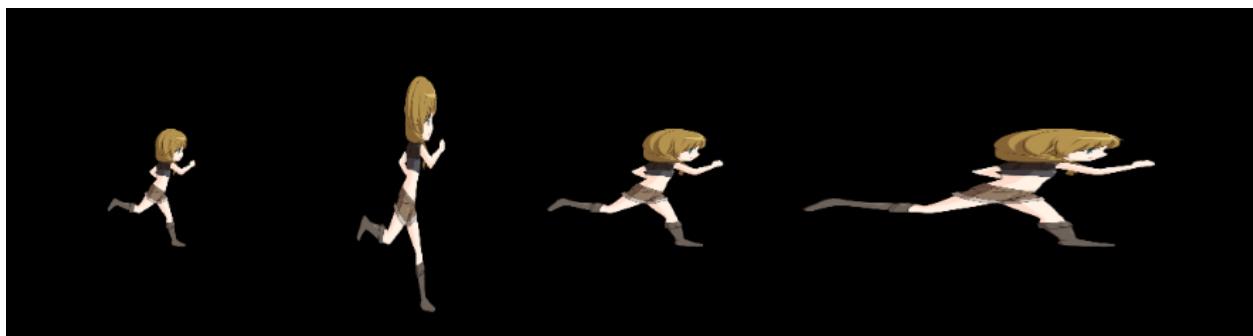
GL verts: 6  
GL calls: 1  
60.1 / 0.008

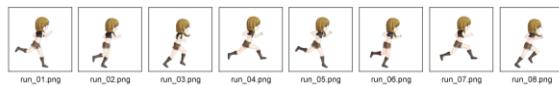
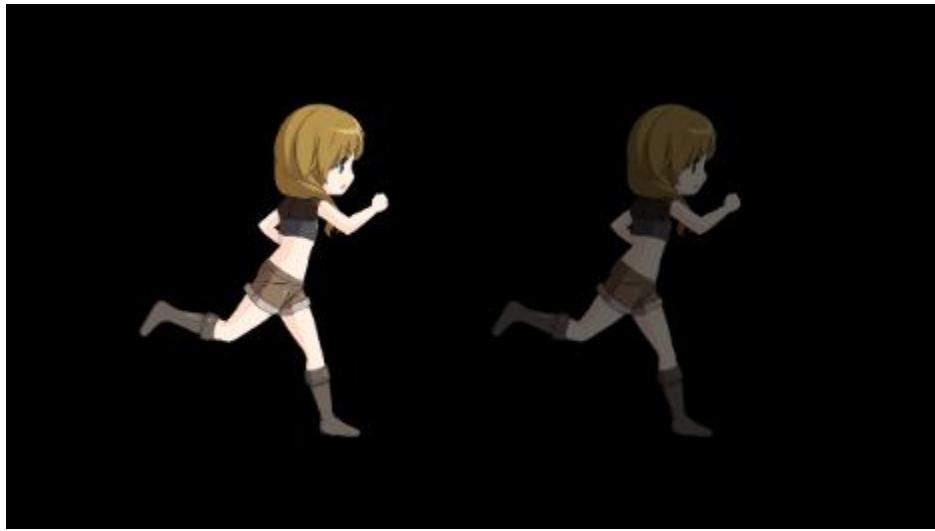
#### Anchor Position



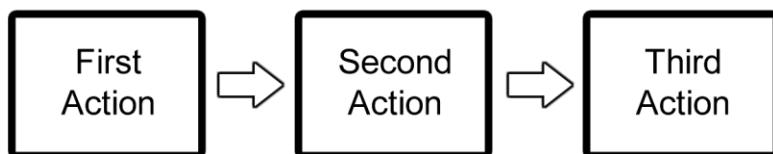
setAnchrPoint(0.5f, 0.5f) setAnchrPoint(0.0f, 0.0f) setAnchrPoint(1.0f, 0.0f) setAnchrPoint(0.0f, 1.0f) setAnchrPoint(1.0f, 1.0f)



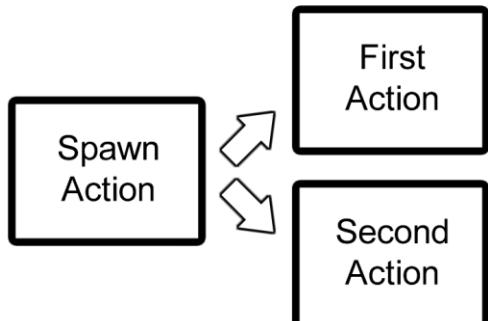




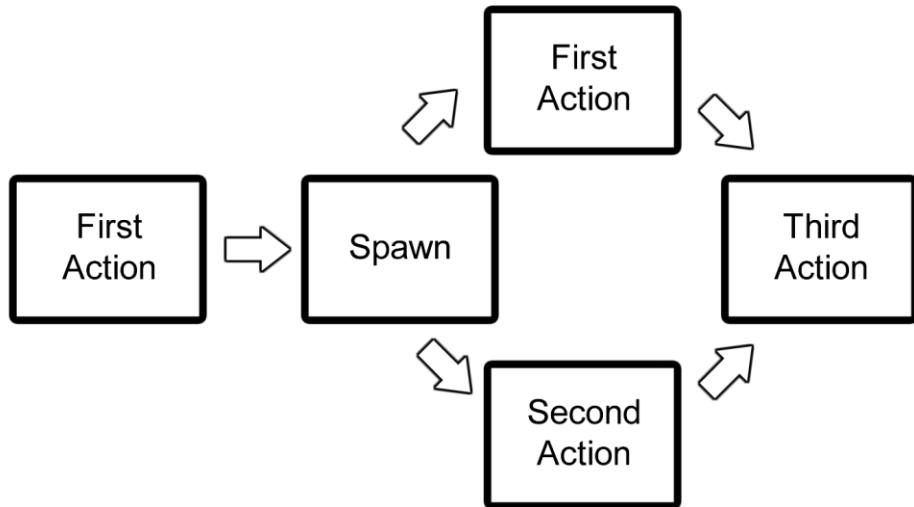
### Sequence Action

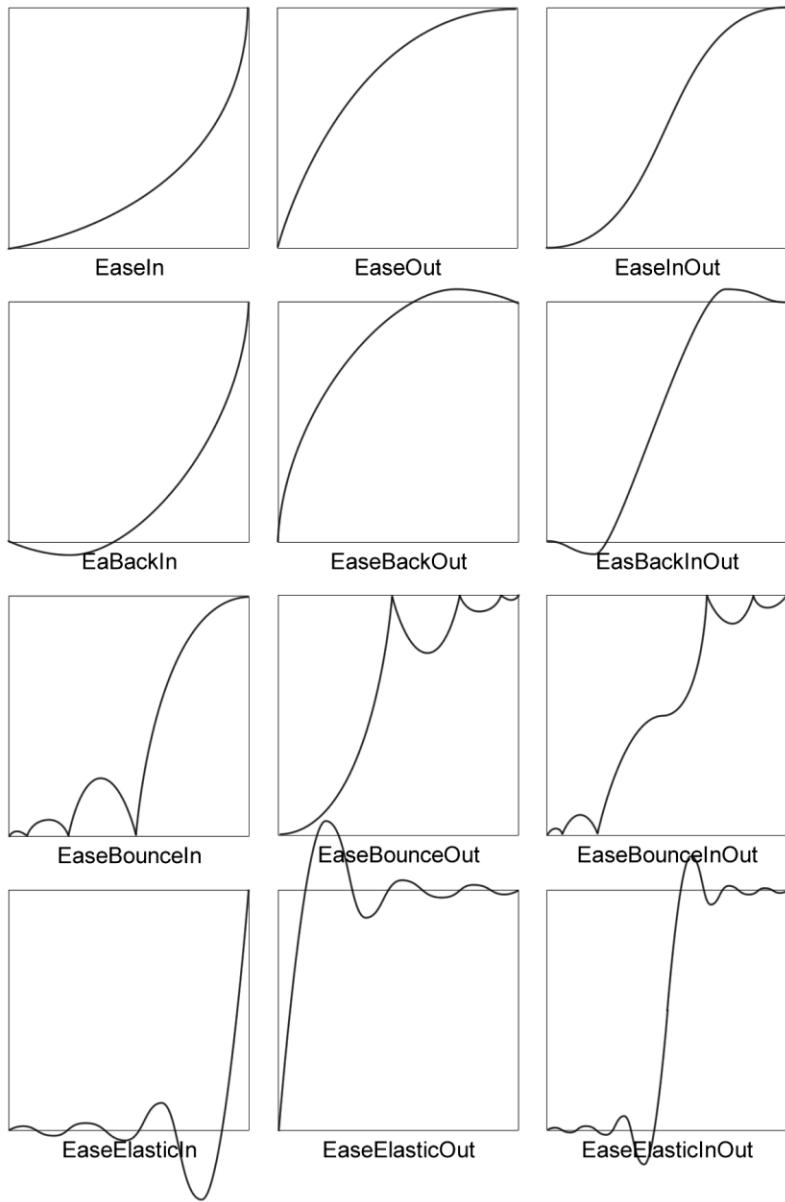


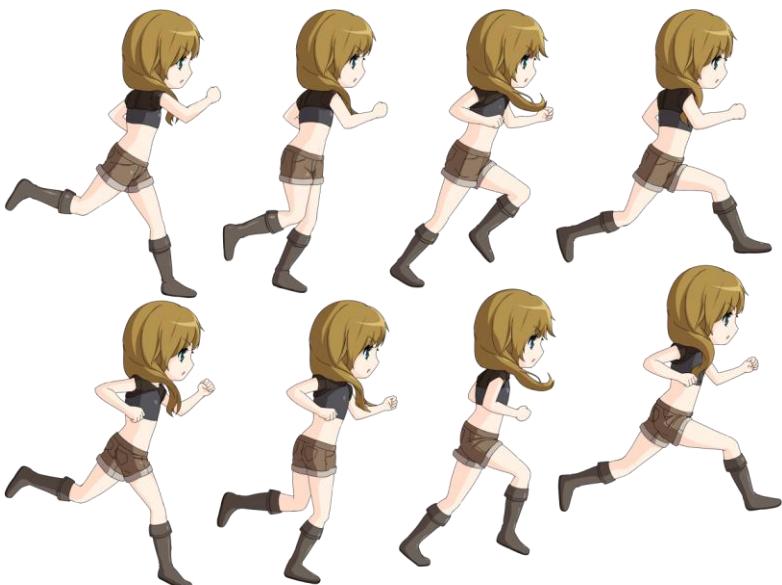
### Spawn Action



## Combine Sequence Action and Spawn Action







MyGame > Resources > res > run\_animation.plist > No Selection

Key	Type	Value
Root	Dictionary	(2 items)
animations	Dictionary	(1 item)
run	Dictionary	(4 items)
delayPerUnit	Number	0.1
restoreoriginalFrame	Boolean	YES
loops	Number	-1
frames	Array	(8 items)
▼ Item 0	Dictionary	(3 items)
spriteframe	String	run_01.png
delayUnits	Number	1
▼ notification	Dictionary	(1 item)
firstframe	Boolean	YES
▼ Item 1	Dictionary	(2 items)
spriteframe	String	run_02.png
delayUnits	Number	1
▼ Item 2	Dictionary	(2 items)
spriteframe	String	run_03.png
delayUnits	Number	1
▼ Item 3	Dictionary	(2 items)
spriteframe	String	run_04.png
delayUnits	Number	1
▼ Item 4	Dictionary	(2 items)
spriteframe	String	run_05.png
delayUnits	Number	1
▼ Item 5	Dictionary	(2 items)
spriteframe	String	run_06.png
delayUnits	Number	1
▼ Item 6	Dictionary	(2 items)
spriteframe	String	run_07.png
delayUnits	Number	1
▼ Item 7	Dictionary	(3 items)
spriteframe	String	run_08.png
delayUnits	Number	1
▼ notification	Dictionary	(1 item)
lastframe	Boolean	YES
properties	Dictionary	(2 items)
spritesheets	Array	(1 item)
Item 0	String	running.plist
format	Number	2

iOS Simulator - iPhone 5 - iPhone 5 / iOS 8.1 (12B411)

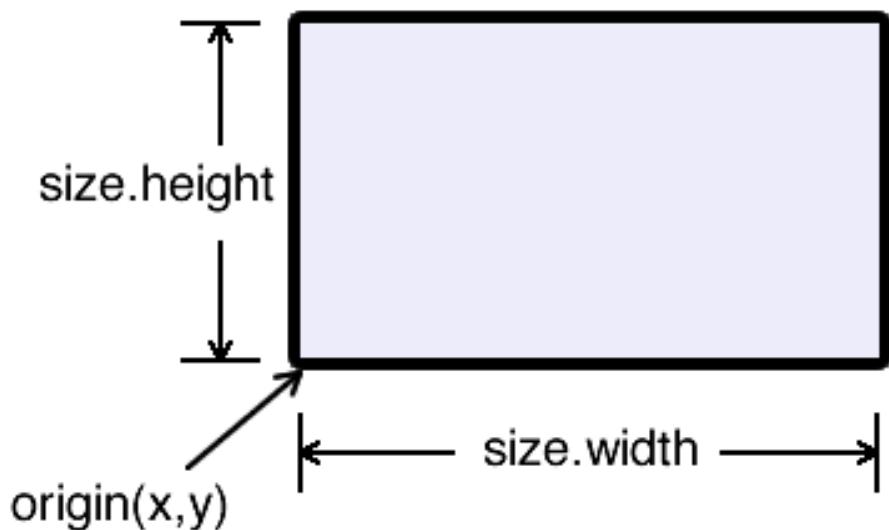


iOS Simulator - iPhone 5 - iPhone 5 / iOS 8.1 (12B411)

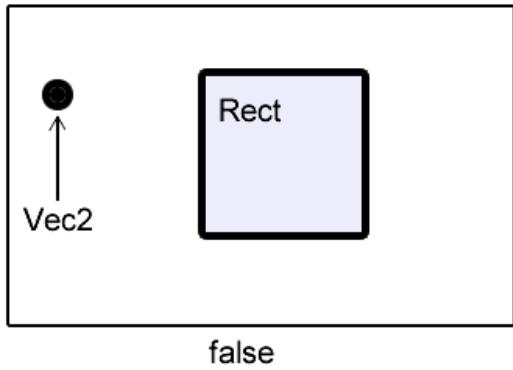


GL verts: 6531  
GL calls: 1  
52.0 / 0.011

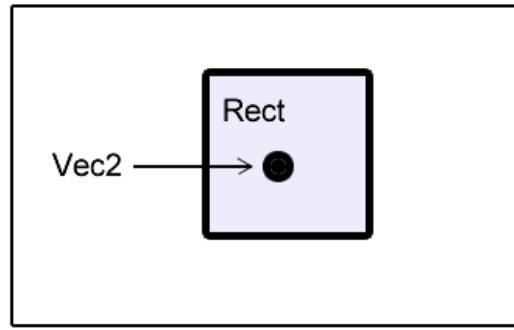
# Rect



`rect.containsPoint(Vec2 point)`

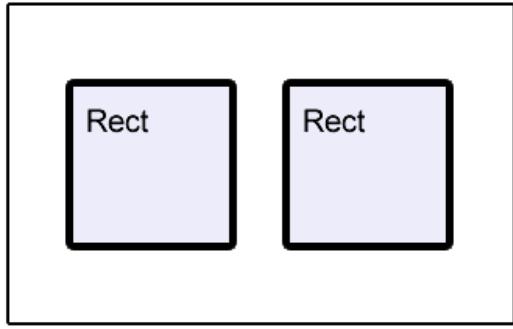


false

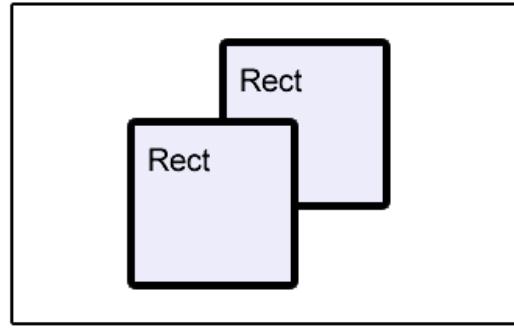


true

`rect.intersectsRect(Rect rect)`

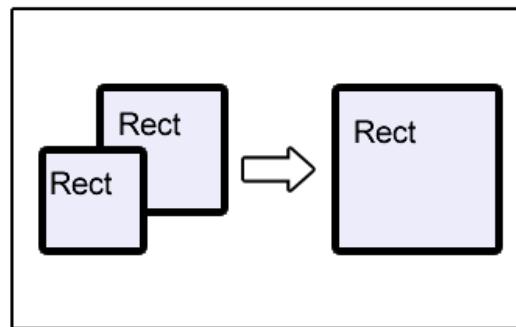
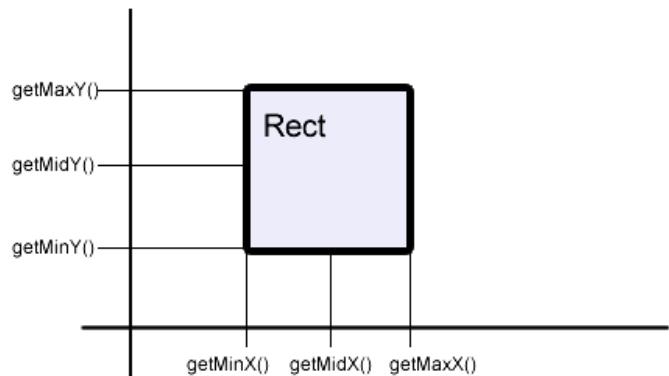


false



true

`rect.unionWithRect(Rect rect)`



iOS Simulator - iPhone 5 - iPhone 5 / iOS 8.1 (12B411)



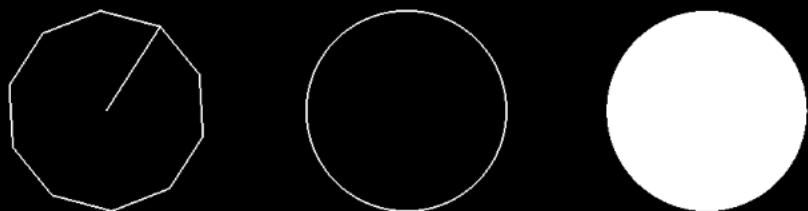
GL verts: 6  
GL calls: 1  
59.9 / 0.008

iOS Simulator - iPhone 5 - iPhone 5 / iOS 8.1 (12B411)



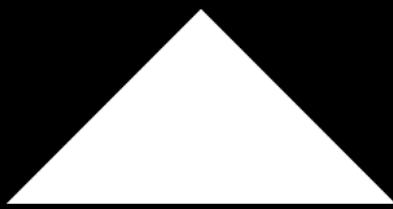
GL verts: 20  
GL calls: 2  
60.2 / 0.008

iOS Simulator - iPhone 5 - iPhone 5 / iOS 8.1 (12B411)



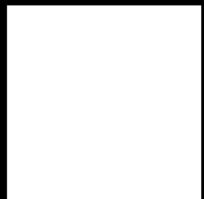
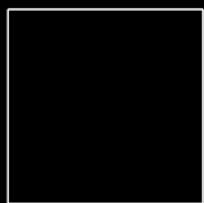
GL verts: 520  
GL calls: 2  
59.9 / 0.010

iOS Simulator - iPhone 5 - iPhone 5 / iOS 8.1 (12B411)



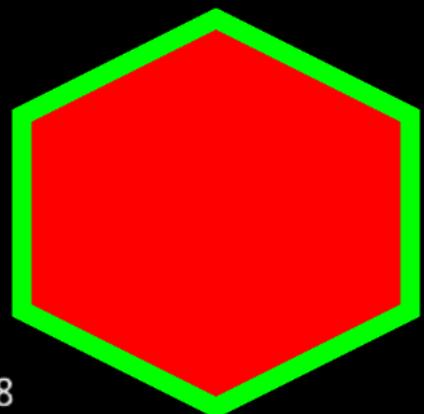
GL verts: 3  
GL calls: 1  
59.8 / 0.008

iOS Simulator - iPhone 5 - iPhone 5 / iOS 8.1 (12B411)

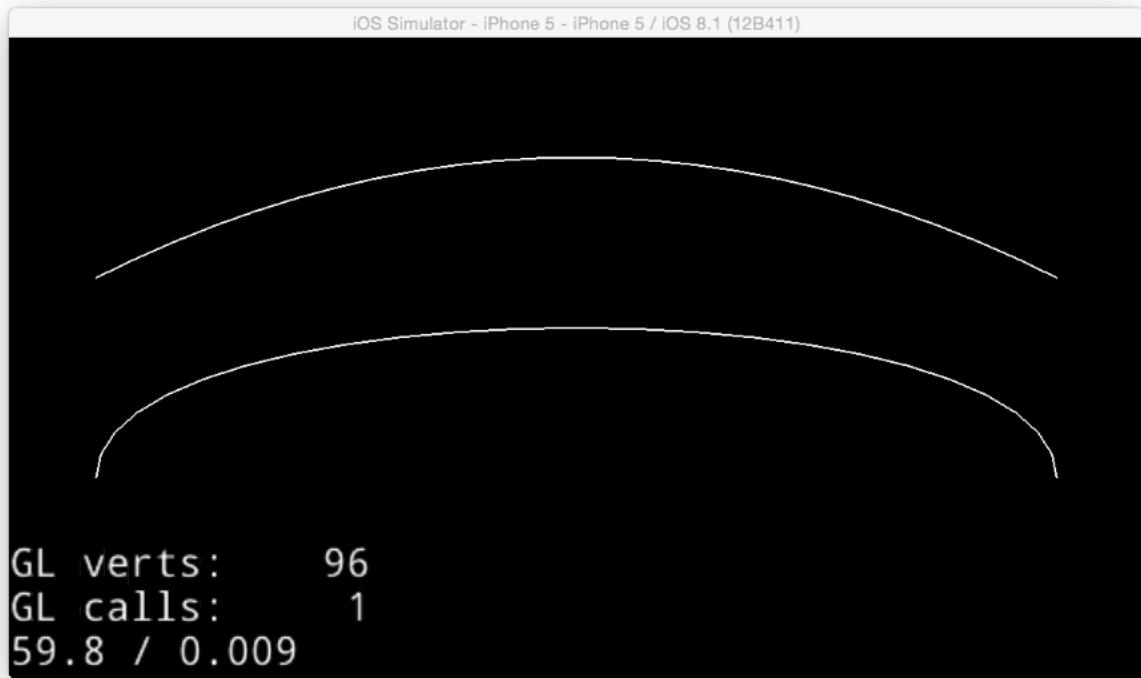


GL verts: 14  
GL calls: 2  
60.1 / 0.010

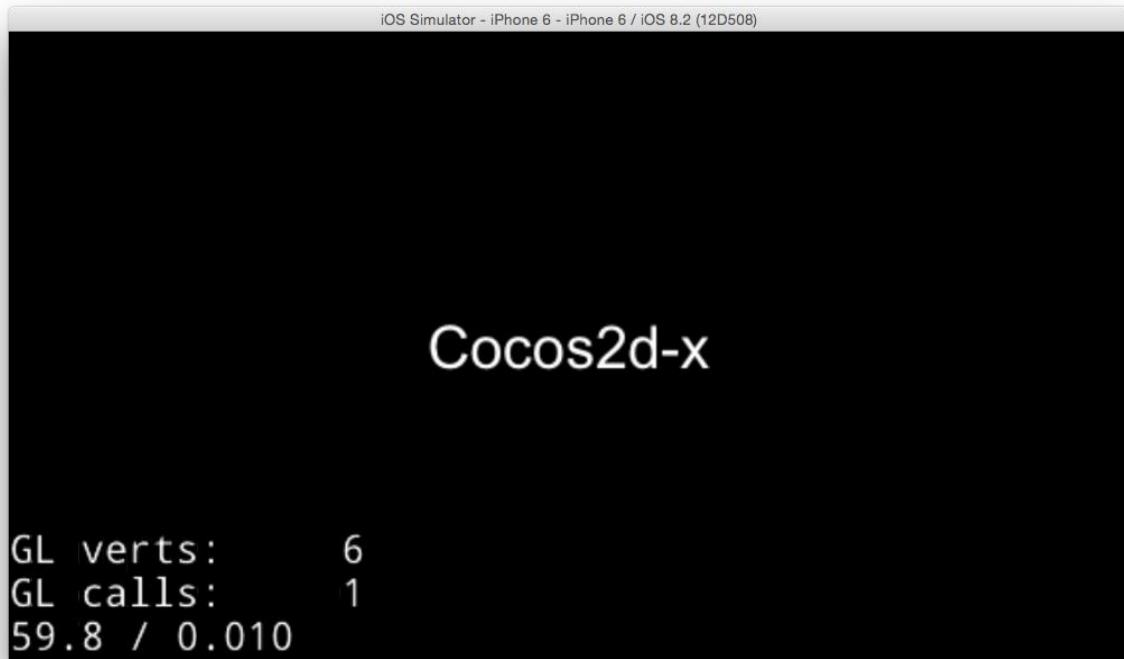
iOS Simulator - iPhone 5 - iPhone 5 / iOS 8.1 (12B411)



GL verts: 48  
GL calls: 1  
60.0 / 0.010



## Chapter 3



iOS Simulator - iPhone 6 - iPhone 6 / iOS 8.2 (12D508)

Hello  
Cocos2d-x

```
GL verts:      6  
GL calls:     1  
59.9 / 0.012
```

iOS Simulator - iPhone 6 - iPhone 6 / iOS 8.2 (12D508)

Hello  
Cocos2d-x

```
GL verts:      6  
GL calls:     1  
59.9 / 0.011
```

iOS Simulator - iPhone 6 - iPhone 6 / iOS 8.2 (12D508)

# True Type Font

```
GL verts:    84  
GL calls:    1  
60.3 / 0.010
```

iOS Simulator - iPhone 6 - iPhone 6 / iOS 8.2 (12D508)

# Bitmap Font

```
GL verts:    66  
GL calls:    1  
60.2 / 0.009
```

iOS Simulator - iPhone 6 - iPhone 6 / iOS 8.2 (12D508)

# Bitmap Font

GL verts: 66  
GL calls: 1  
59.9 / 0.010

iOS Simulator - iPhone 6 - iPhone 6 / iOS 8.2 (12D508)

# Drop Shadow

GL verts: 136  
GL calls: 3  
43.7 / 0.016

iOS Simulator - iPhone 6 - iPhone 6 / iOS 8.2 (12D508)

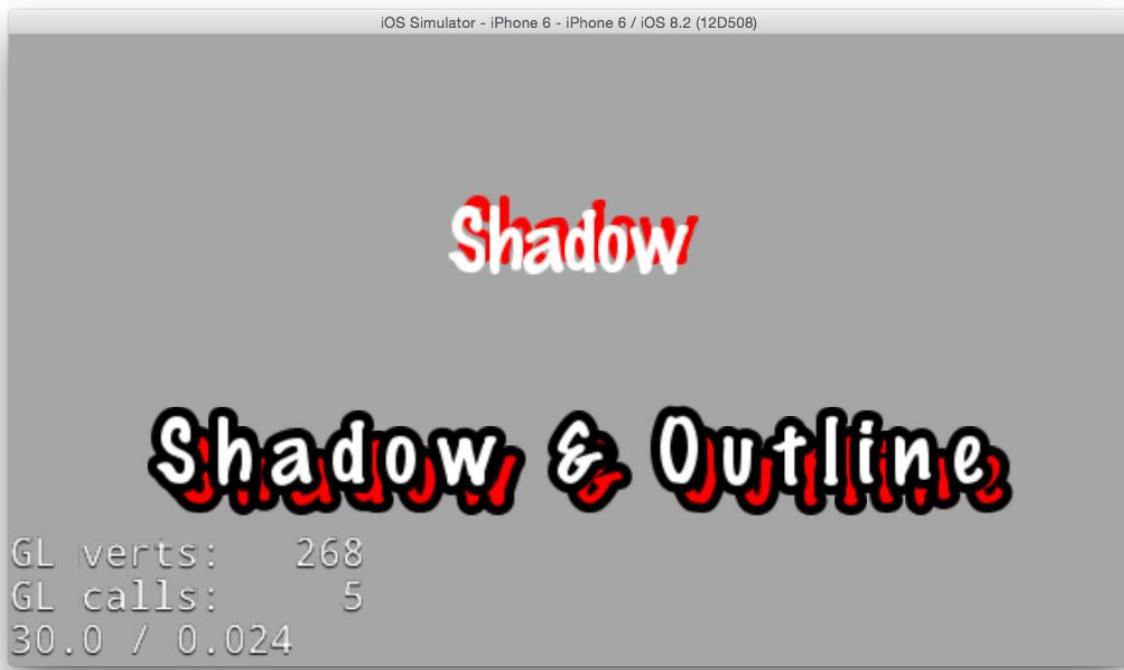
# Outline

GL verts: 46  
GL calls: 2  
34.7 / 0.018

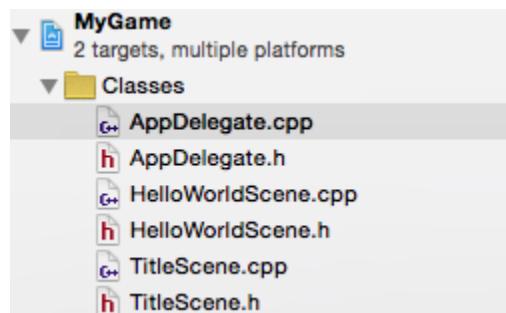
iOS Simulator - iPhone 6 - iPhone 6 / iOS 8.2 (12D508)

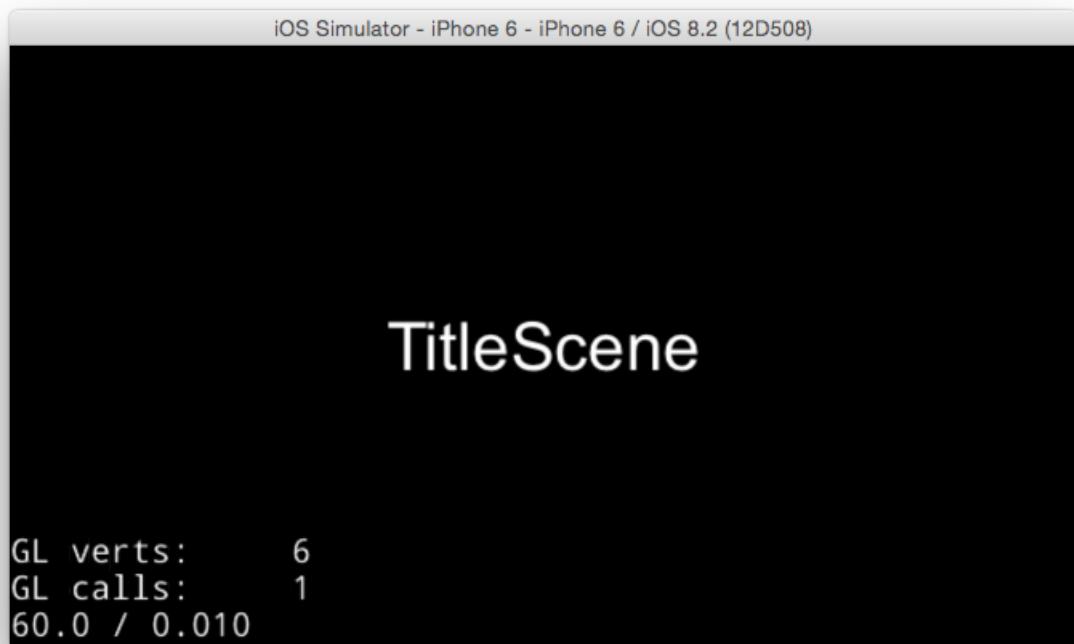
# Glow

GL verts: 28  
GL calls: 2  
32.7 / 0.018



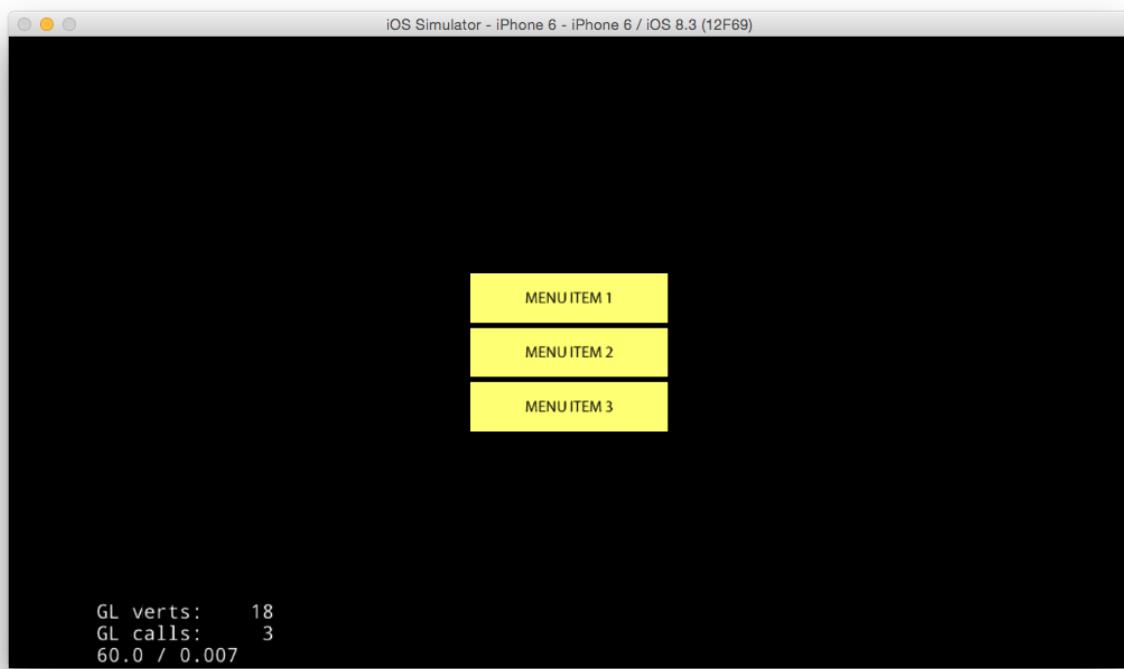
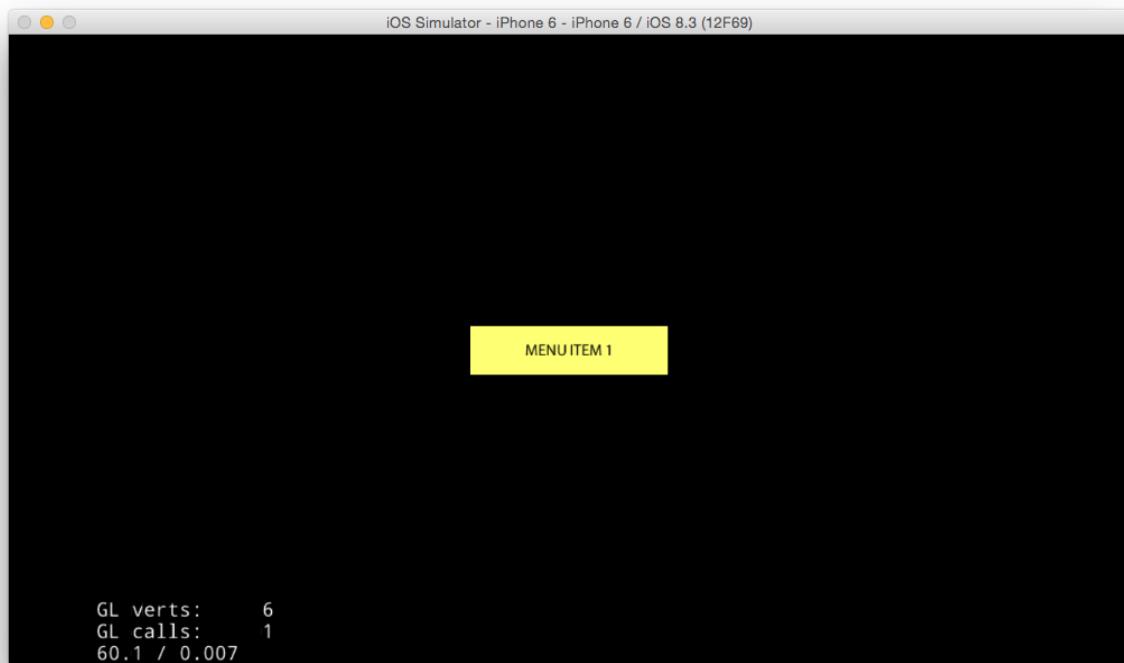
## Chapter 4

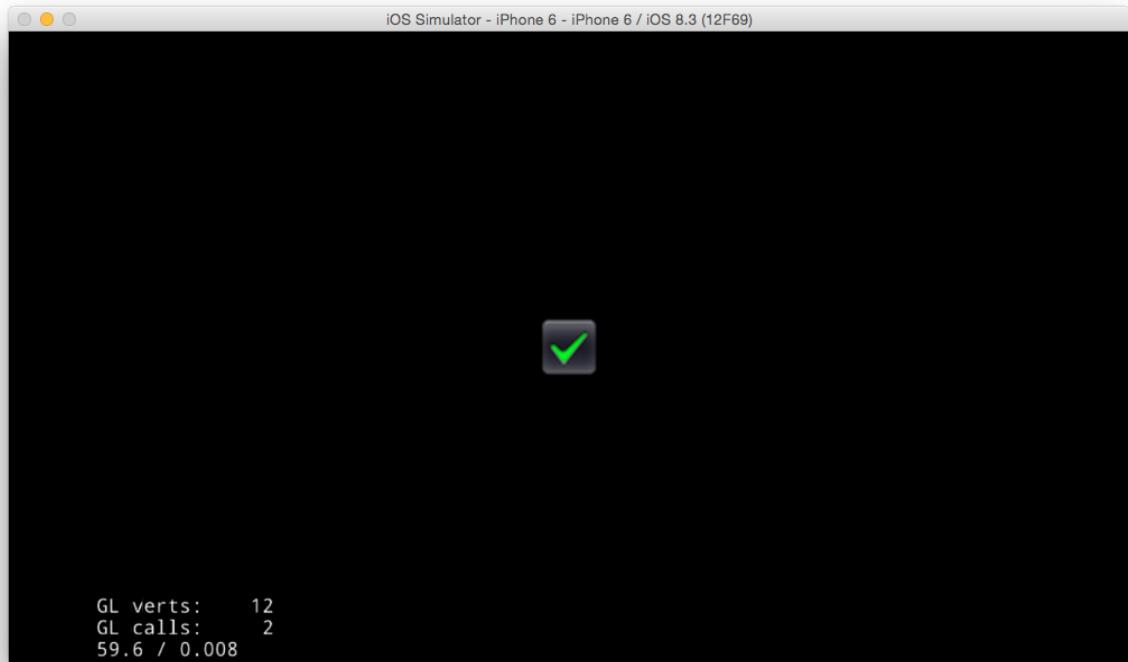
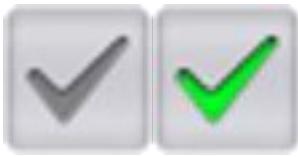


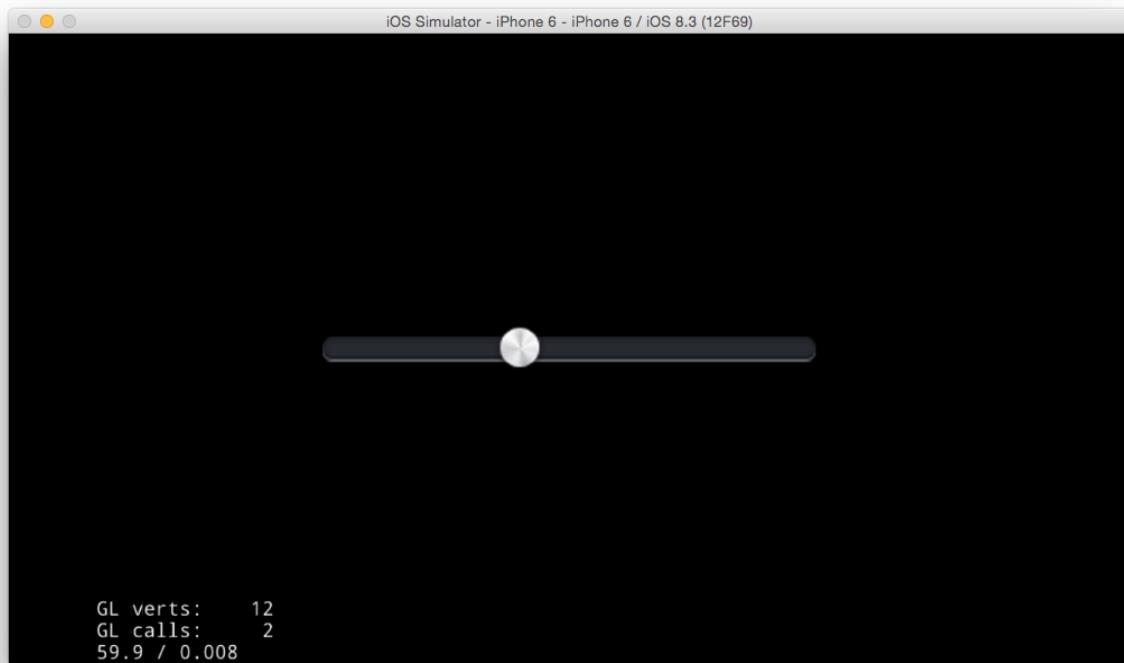
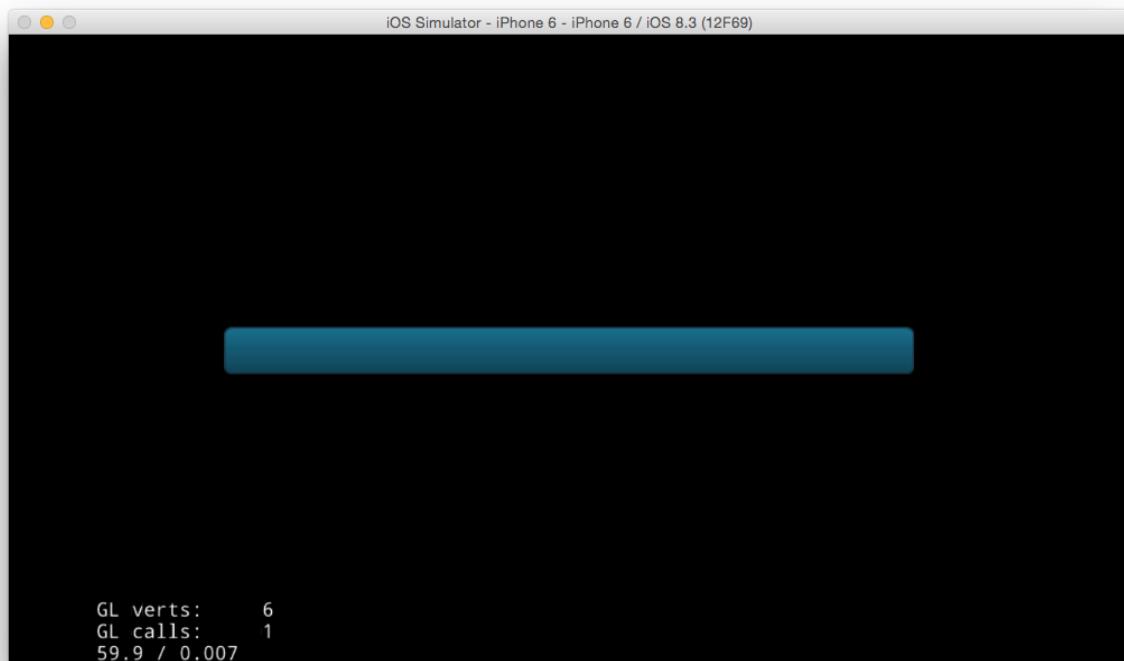


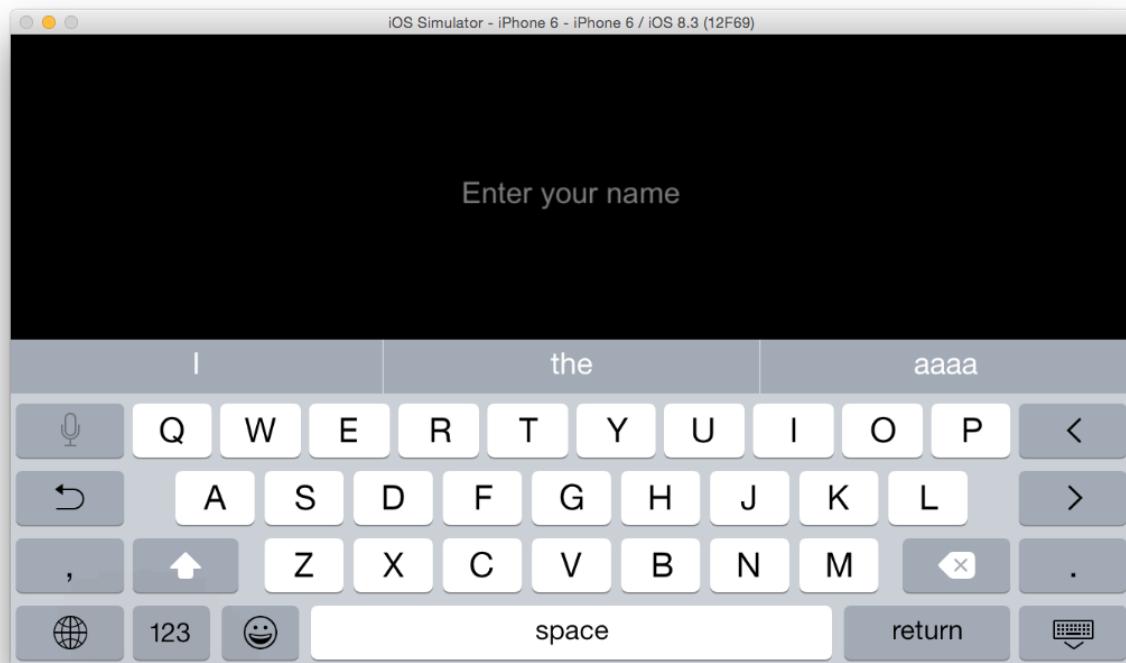
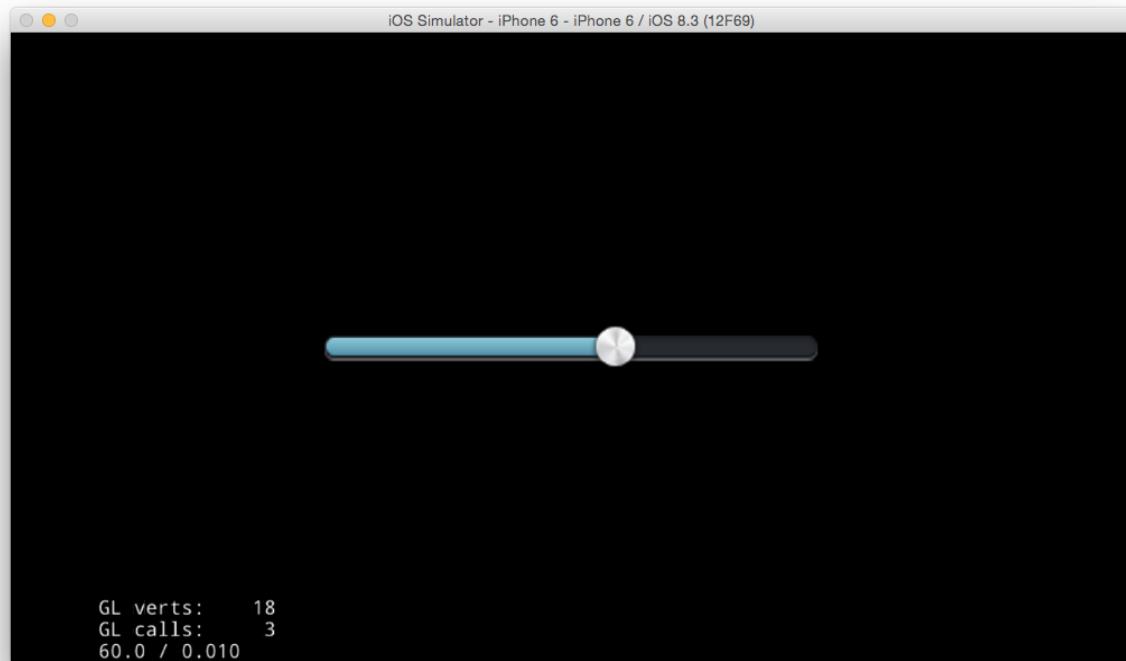
Chapter 5

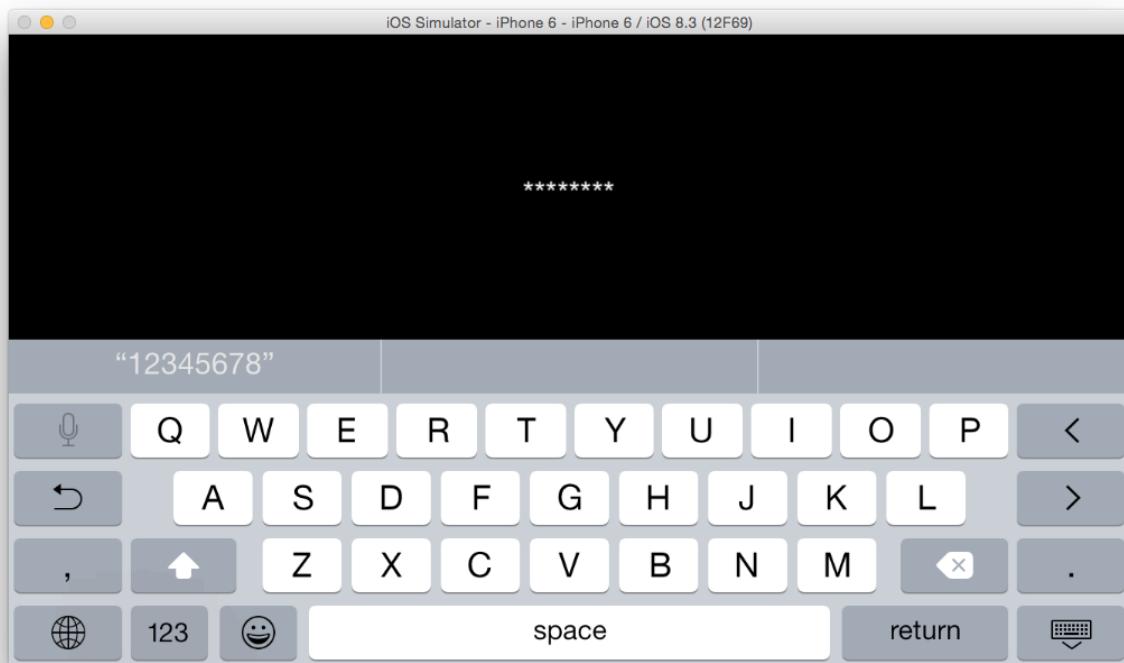


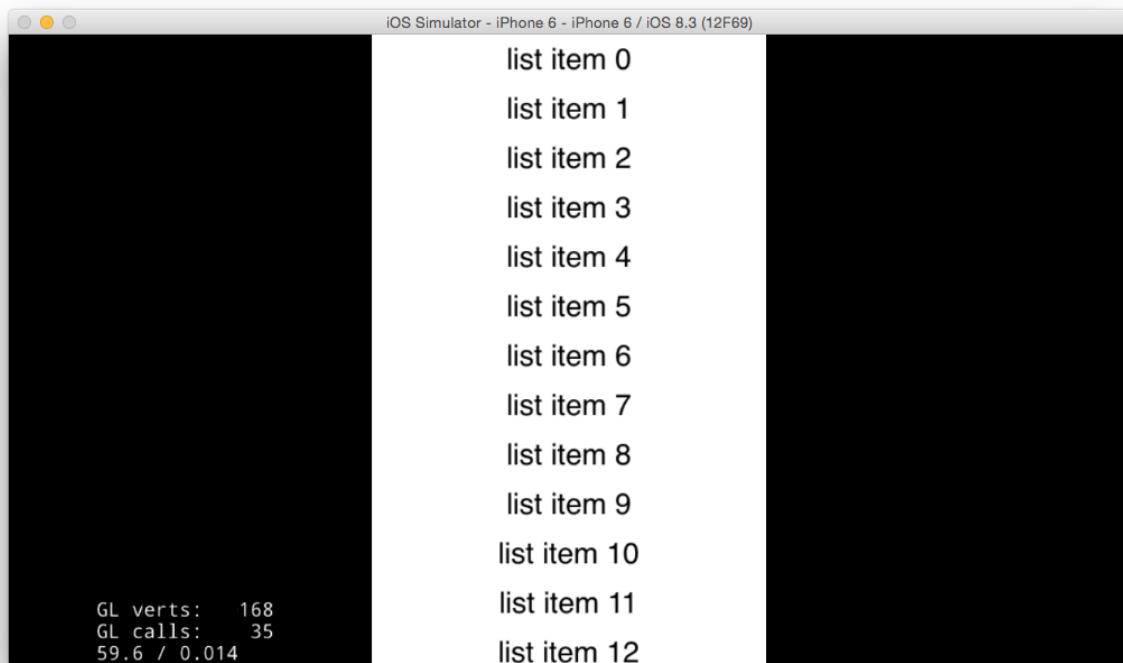












## Chapter 6

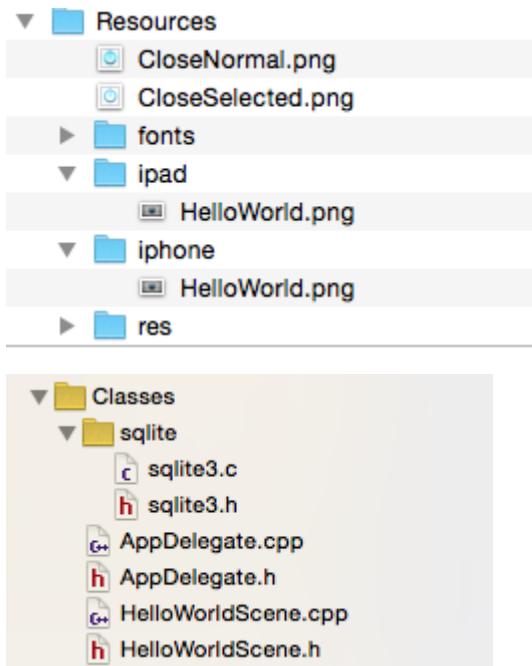
### ▼ Link Binary With Libraries (13 items)

Name	Status
MediaPlayer.framework	Required ▾
Security.framework	Required ▾
libcocos2d iOS.a	Required ▾
CoreMotion.framework	Required ▾
Foundation.framework	Required ▾
UIKit.framework	Required ▾
CoreGraphics.framework	Required ▾
OpenGLES.framework	Required ▾
libz.dylib	Required ▾
QuartzCore.framework	Required ▾
OpenAL.framework	Required ▾
AVFoundation.framework	Required ▾
AudioToolbox.framework	Required ▾

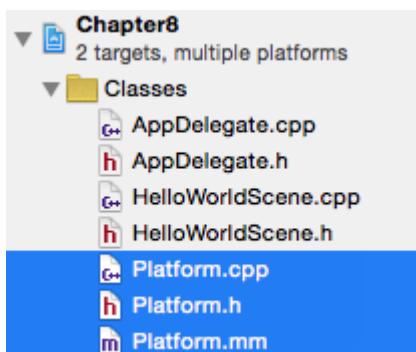
+ -

Drag to reorder frameworks

## Chapter 7



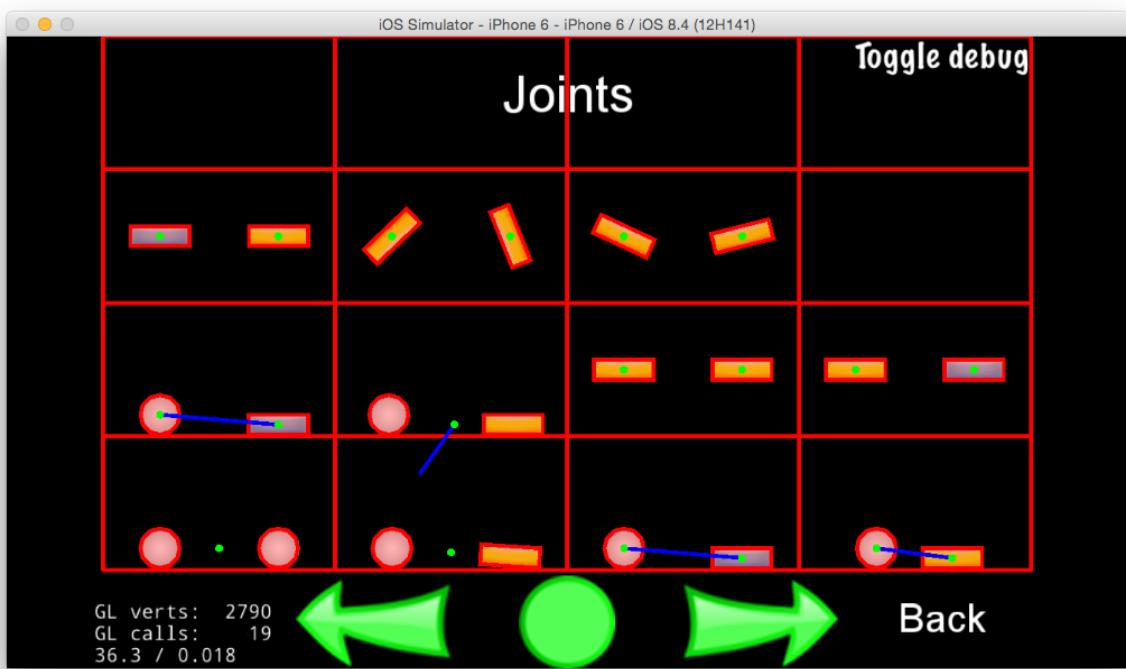
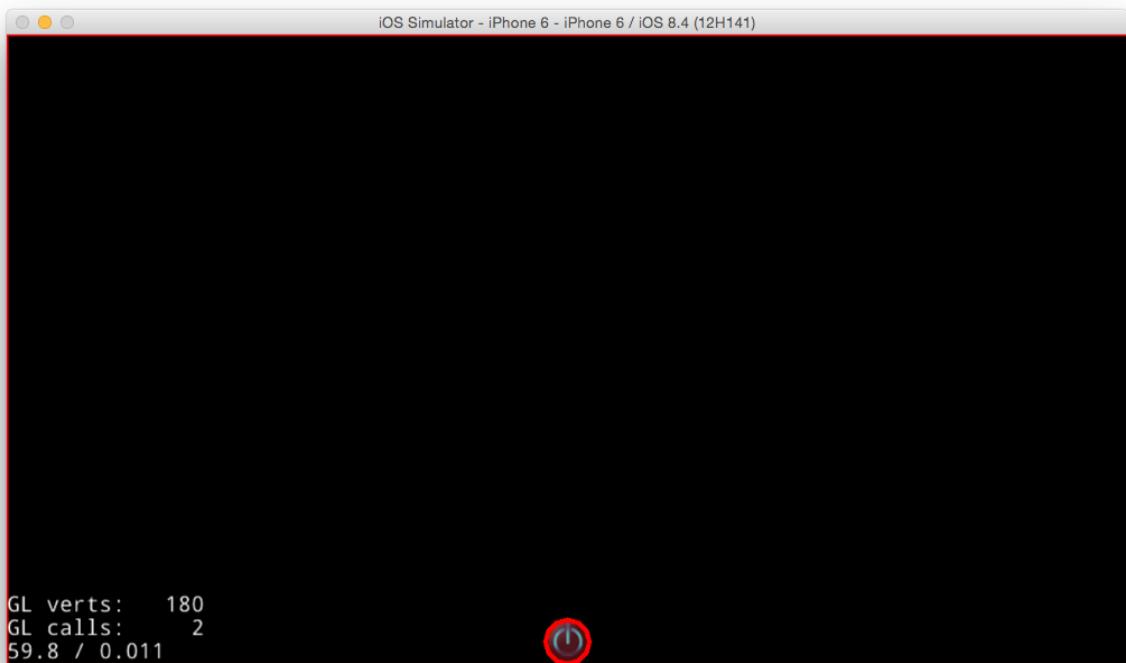
## Chapter 8



### ▼ Compile Sources (6 items)

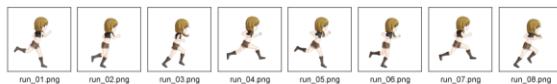
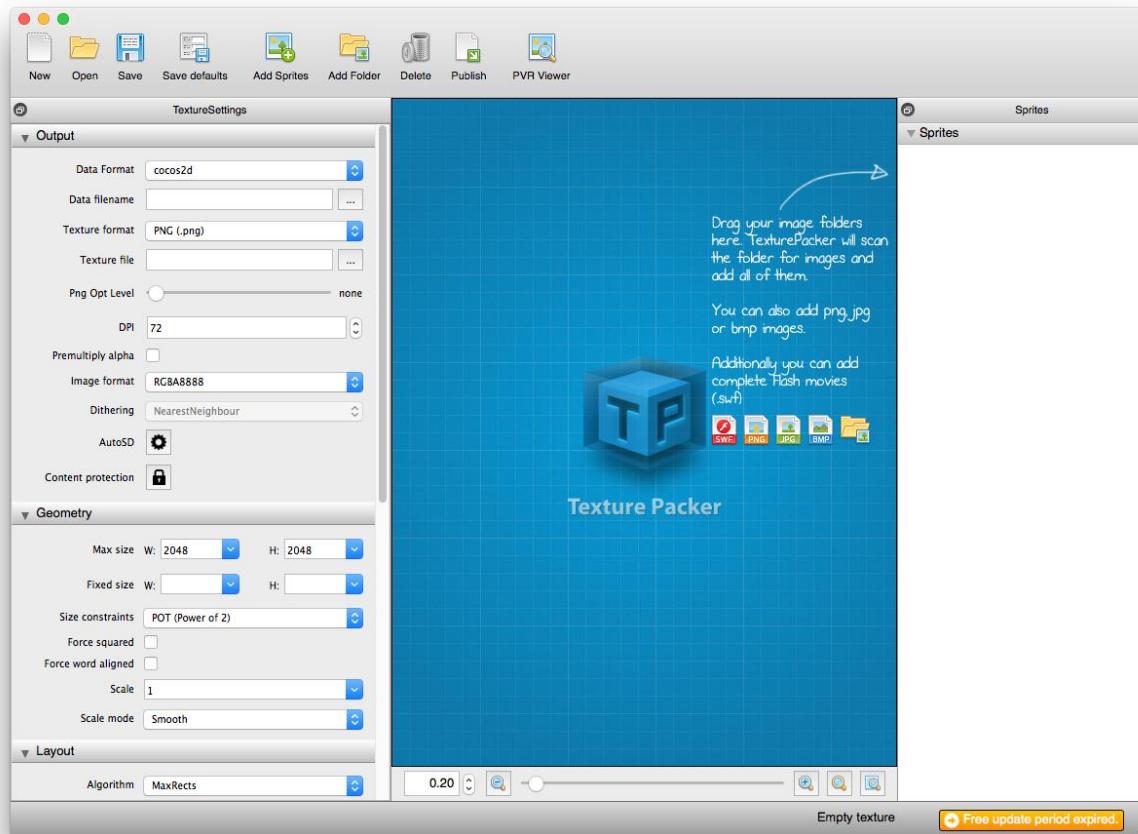
Name
<code>AppDelegate.cpp</code> ...in ./Classes
<code>HelloWorldScene.cpp</code> ...in ./Classes
<code>AppController.mm</code> ...in ios
<code>RootViewController.mm</code> ...in ios
<code>Platform.mm</code> ...in ./Classes
<code>main.m</code> ...in ios

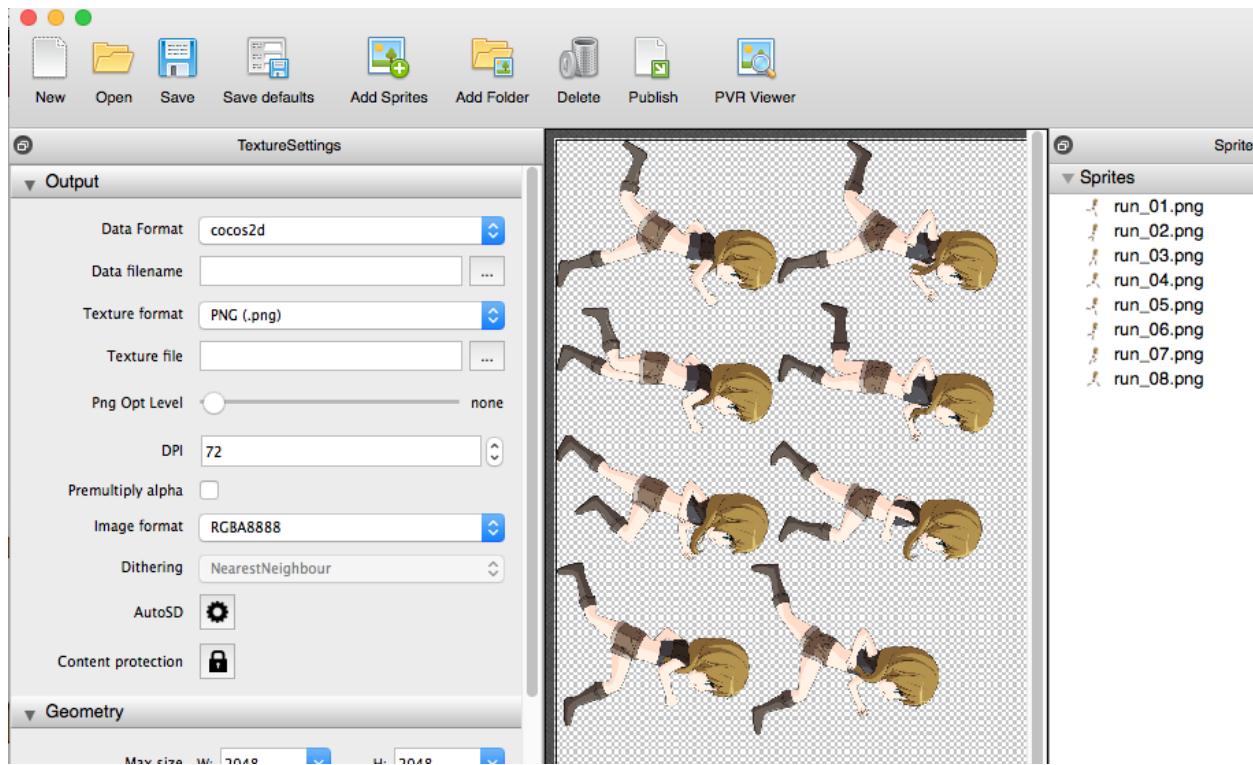
## Chapter 9

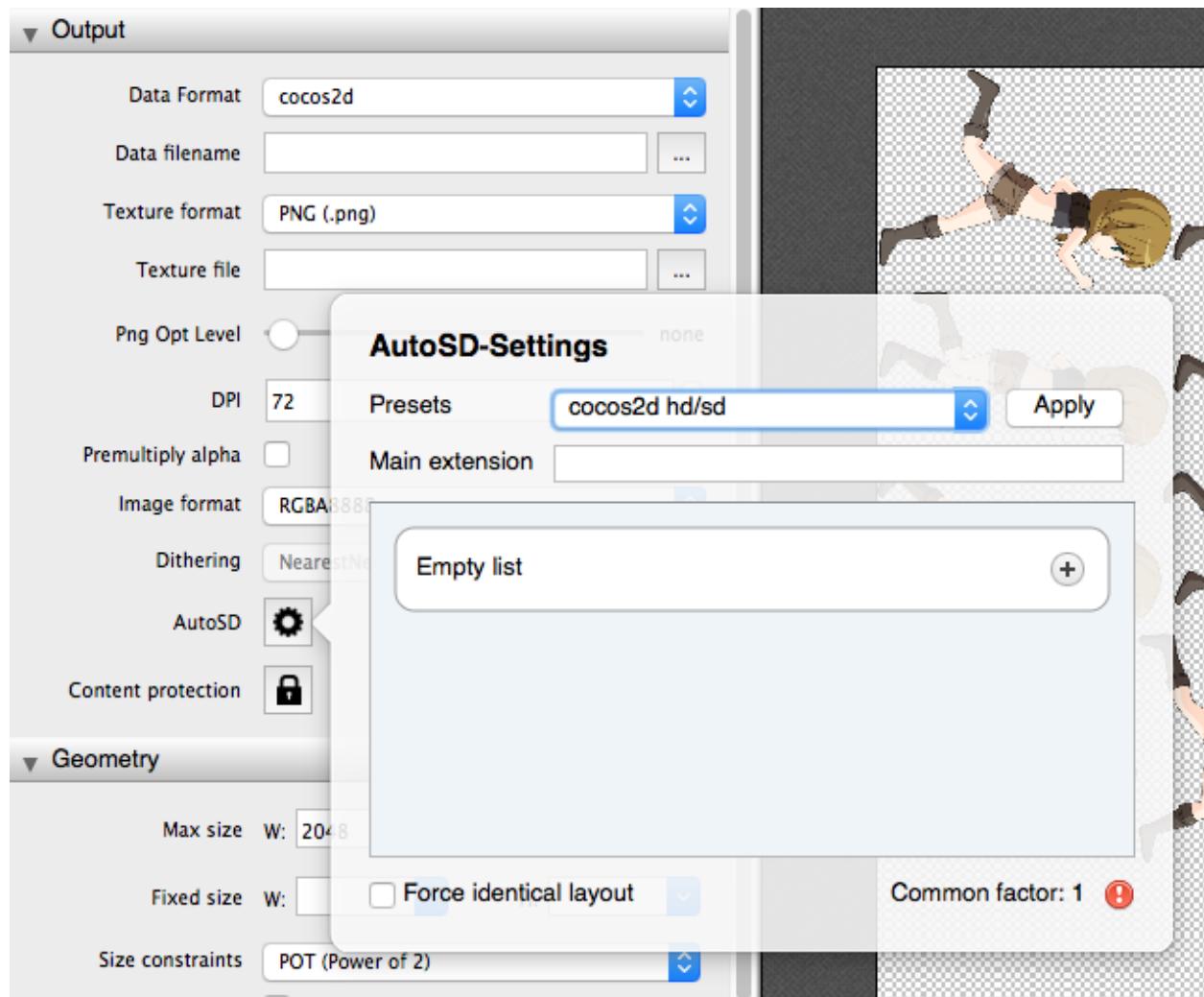


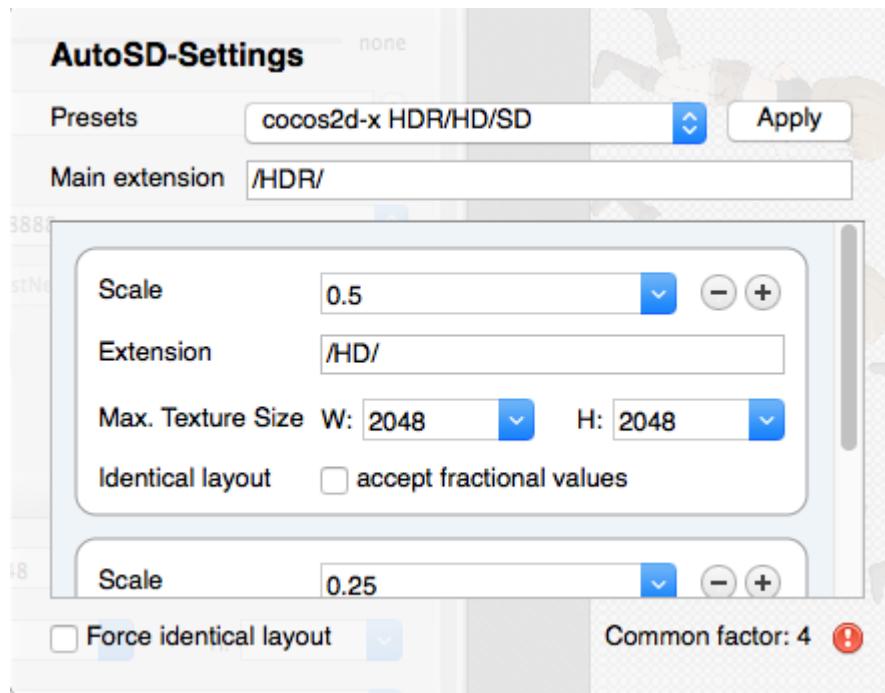
Device Orientation  Portrait  
 Upside Down  
 Landscape Left  
 Landscape Right

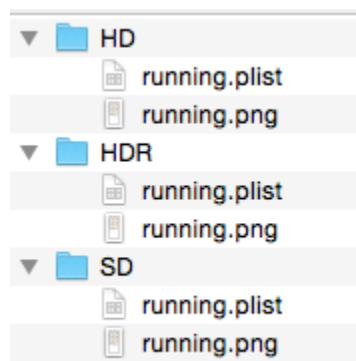
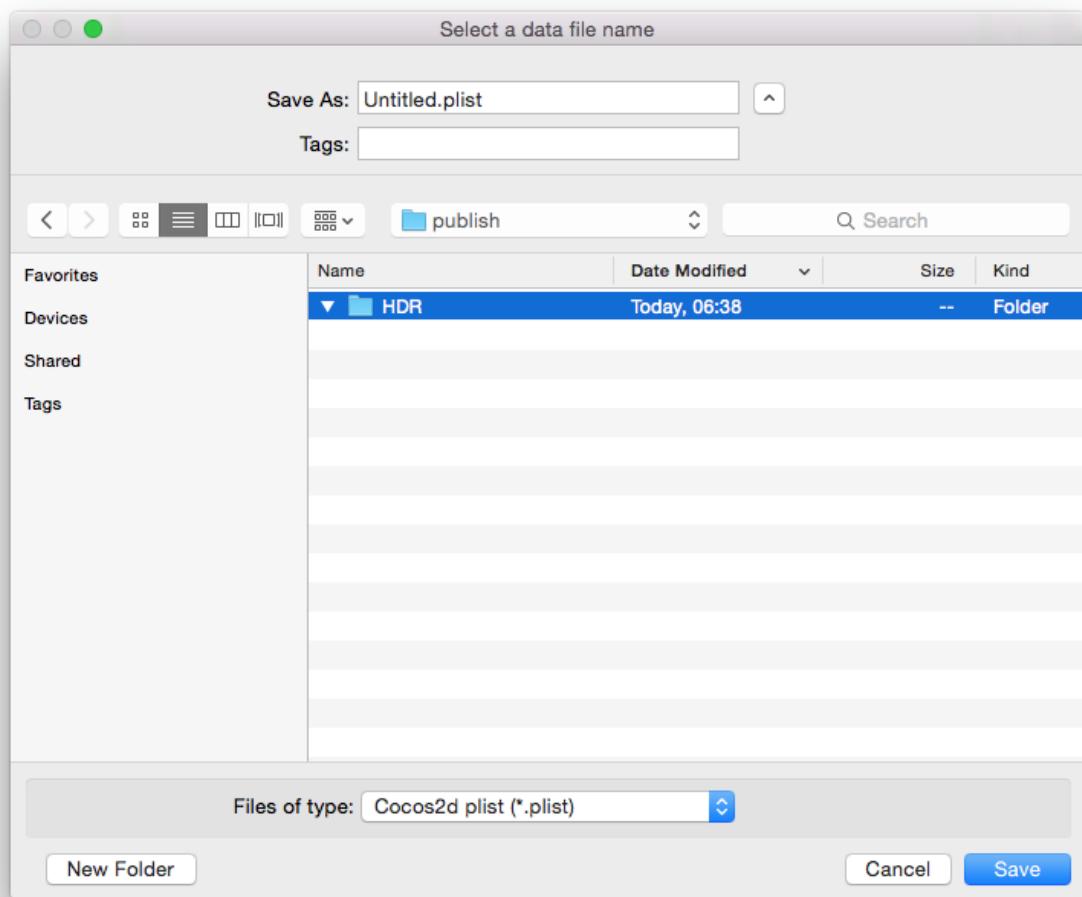
## Chapter 10

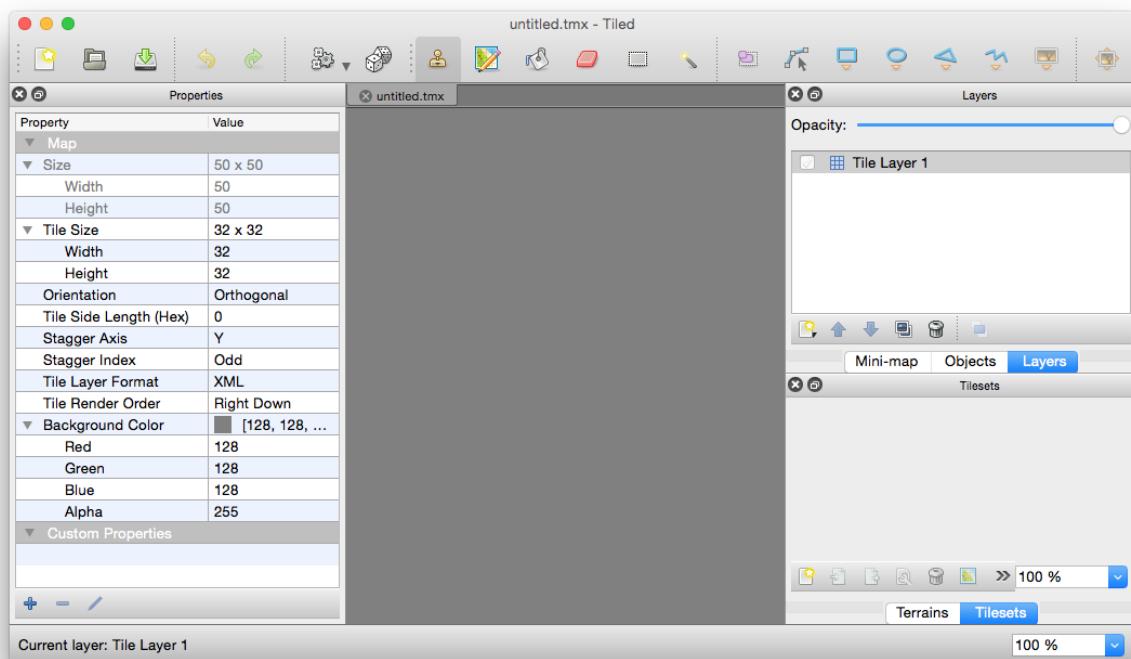
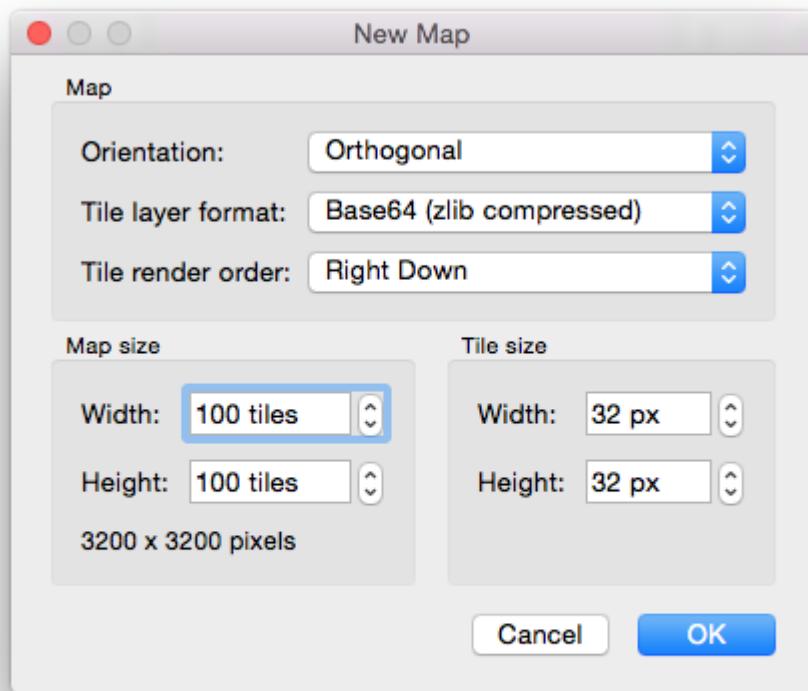


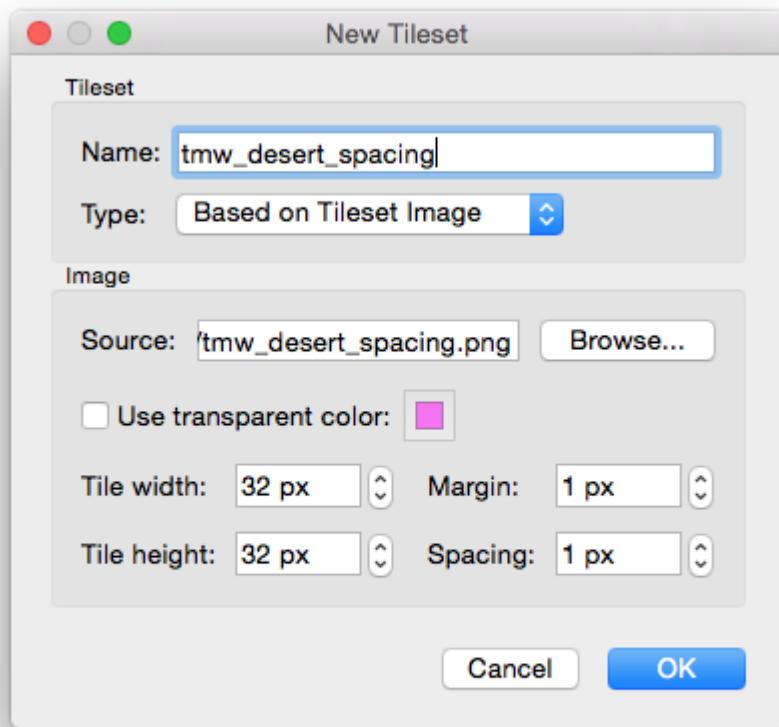


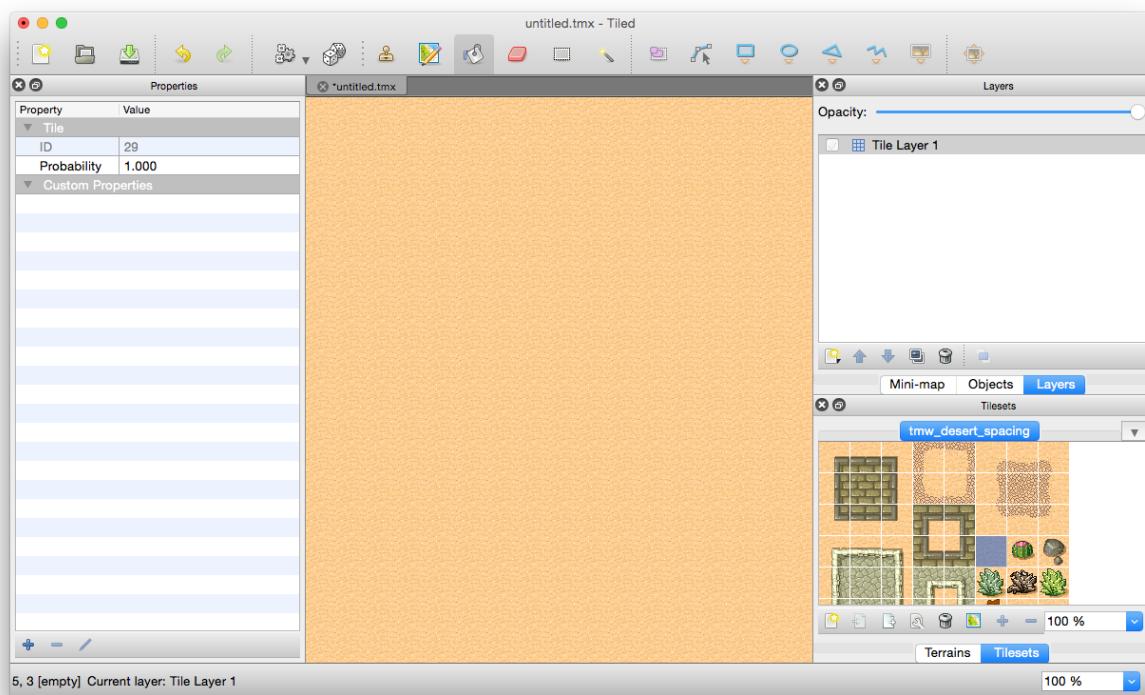
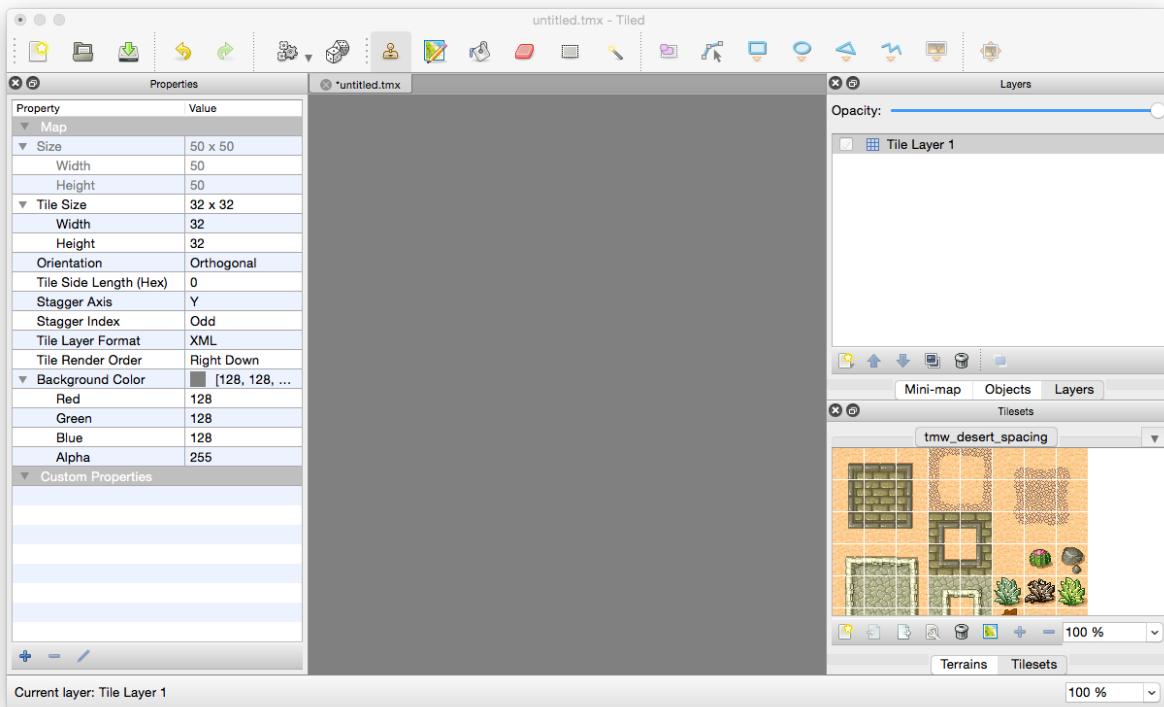


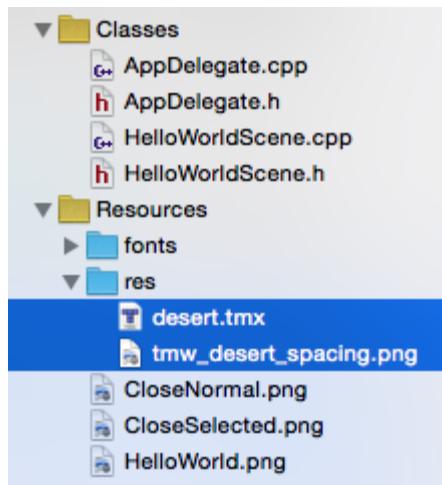
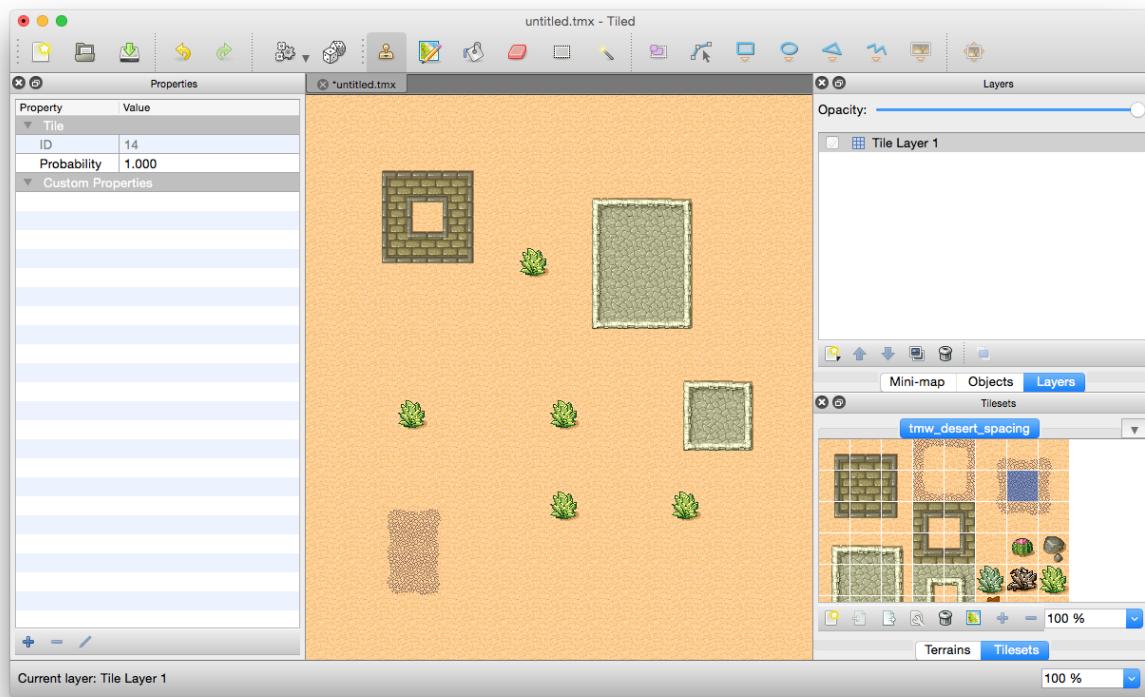








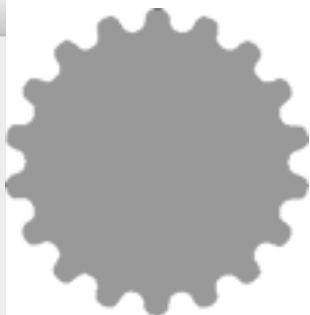


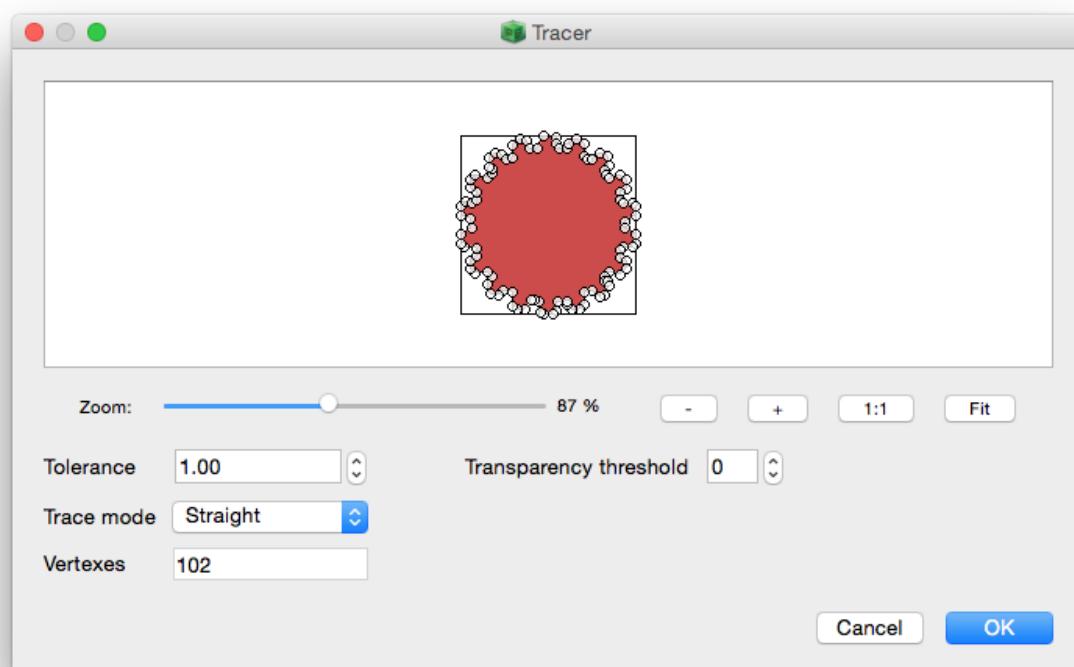
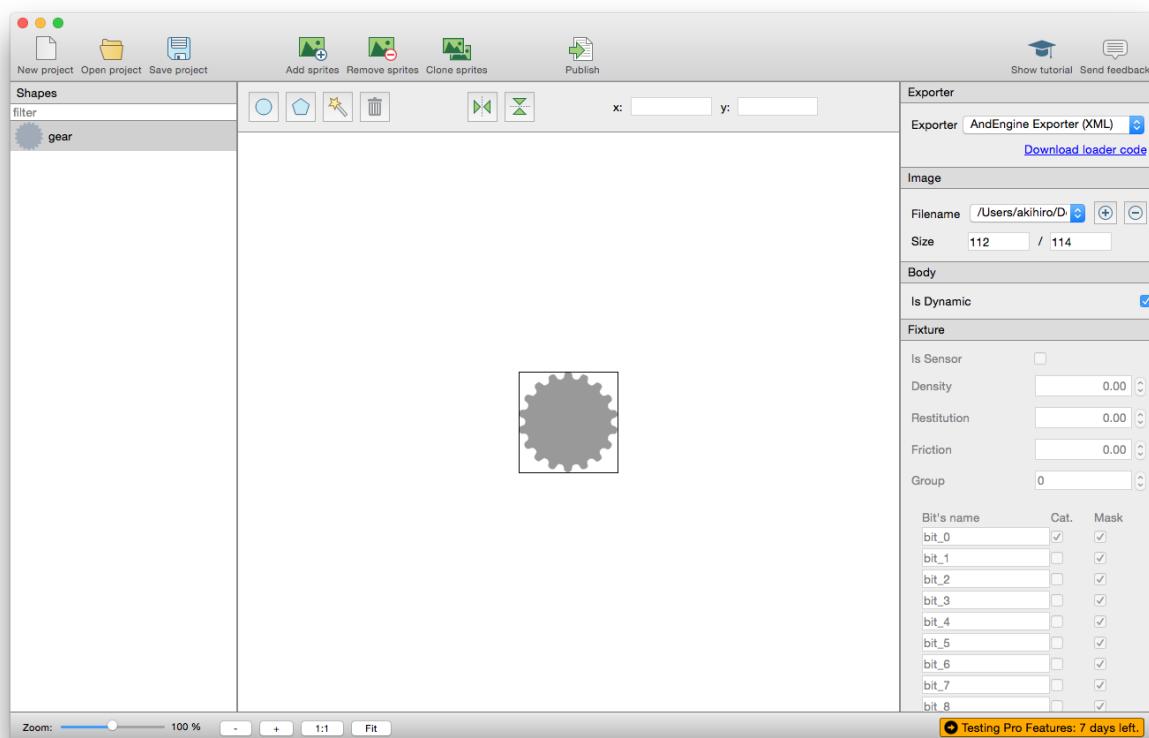


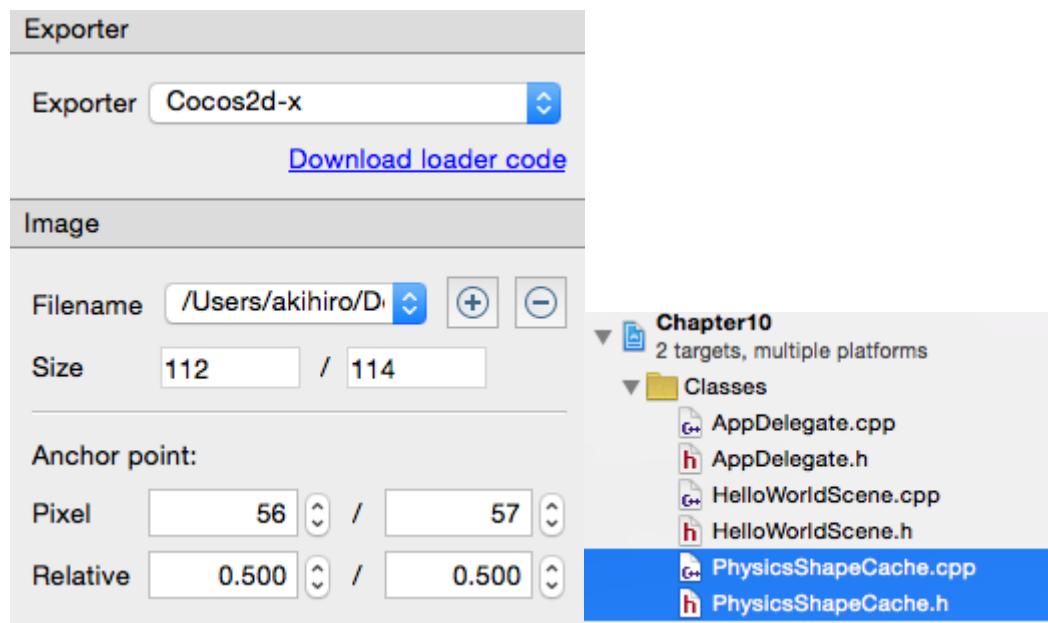
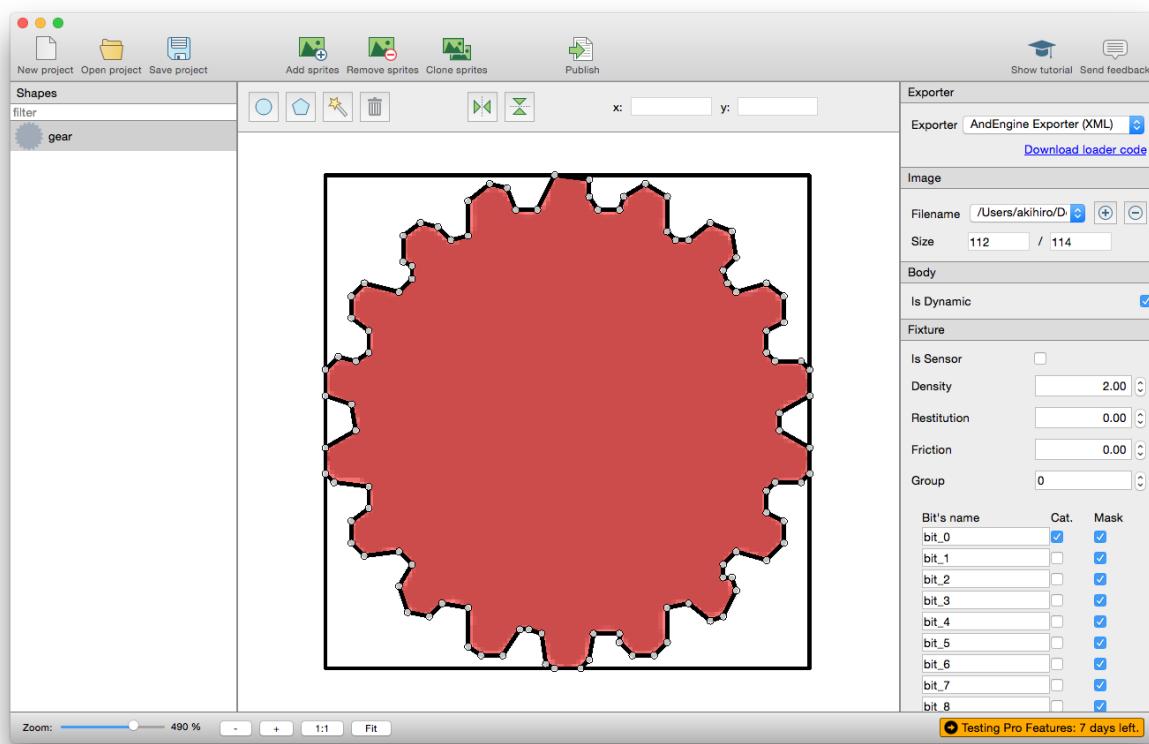


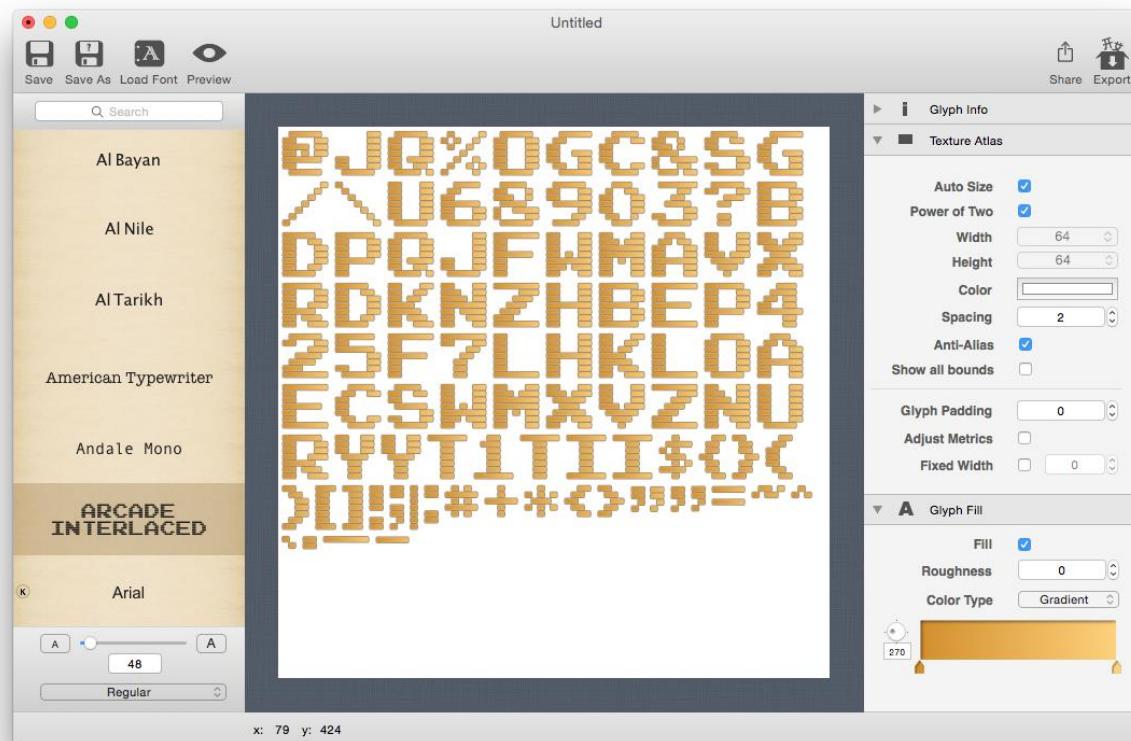
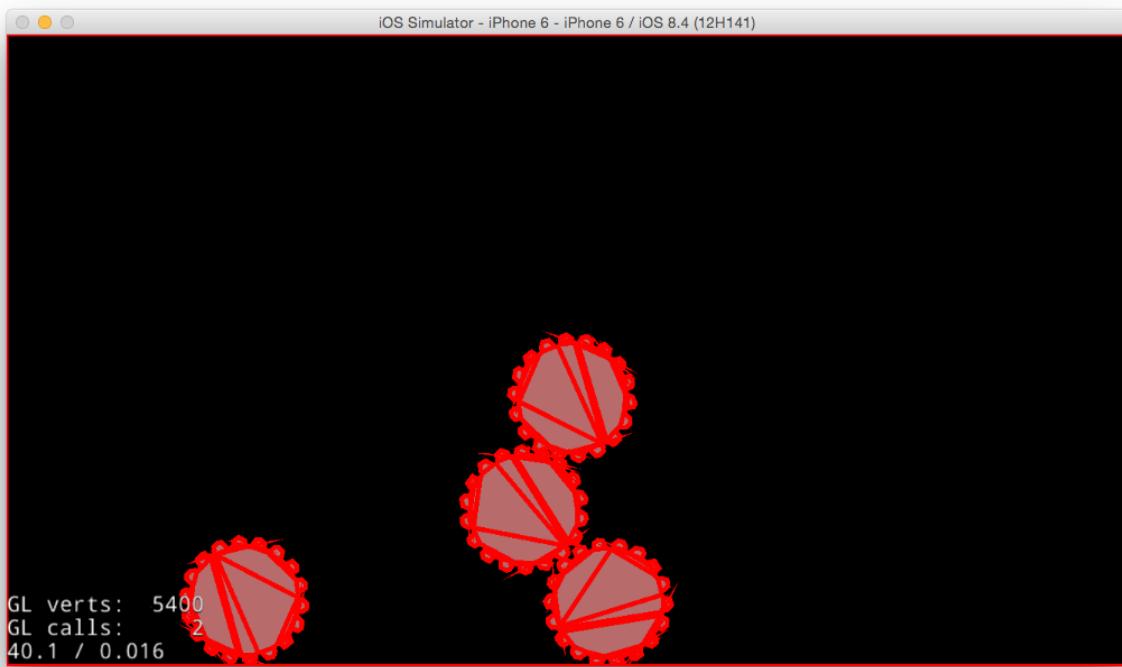
**Properties**

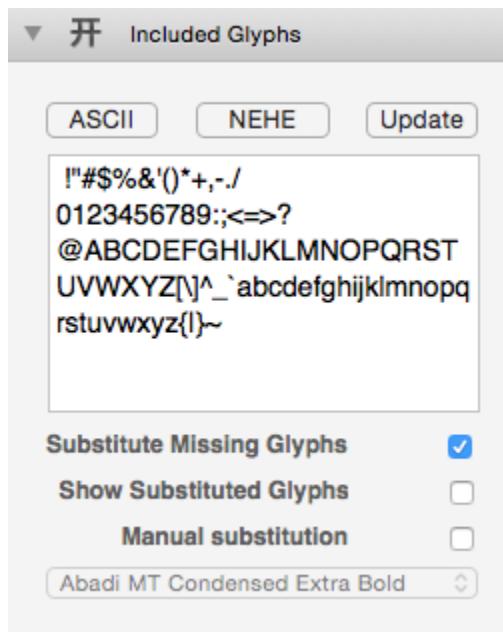
Property	Value
▼ Tile	
ID	39
Probability	0.010
▼ Custom Properties	
isTree	true

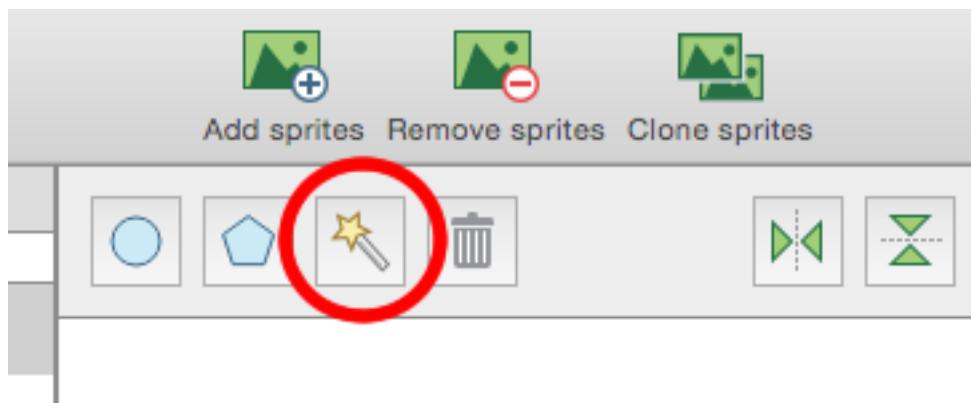
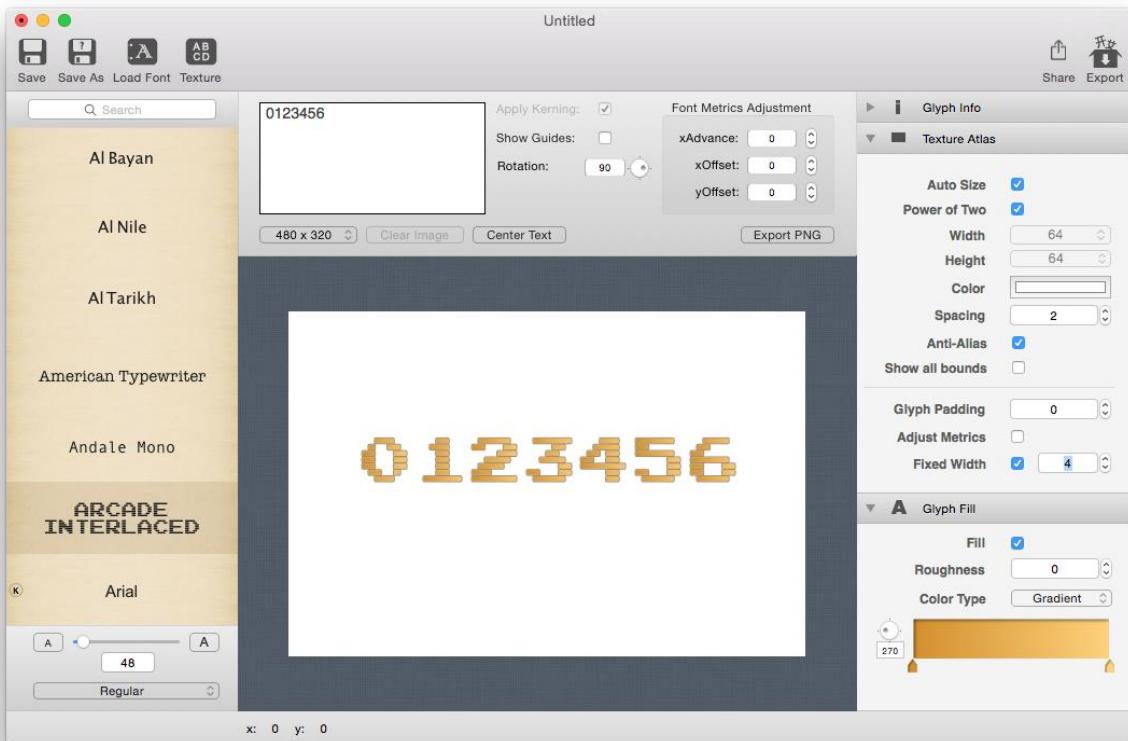




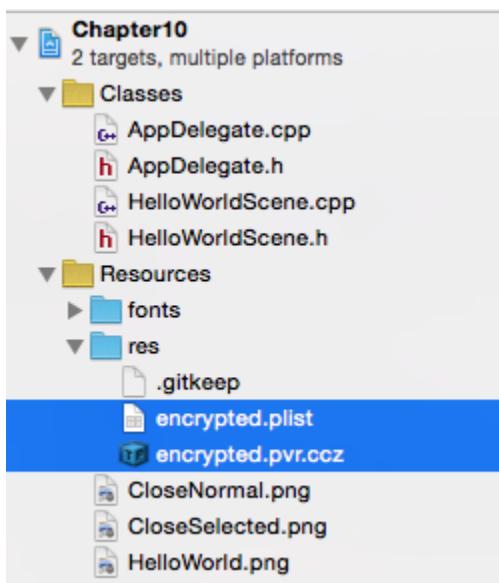
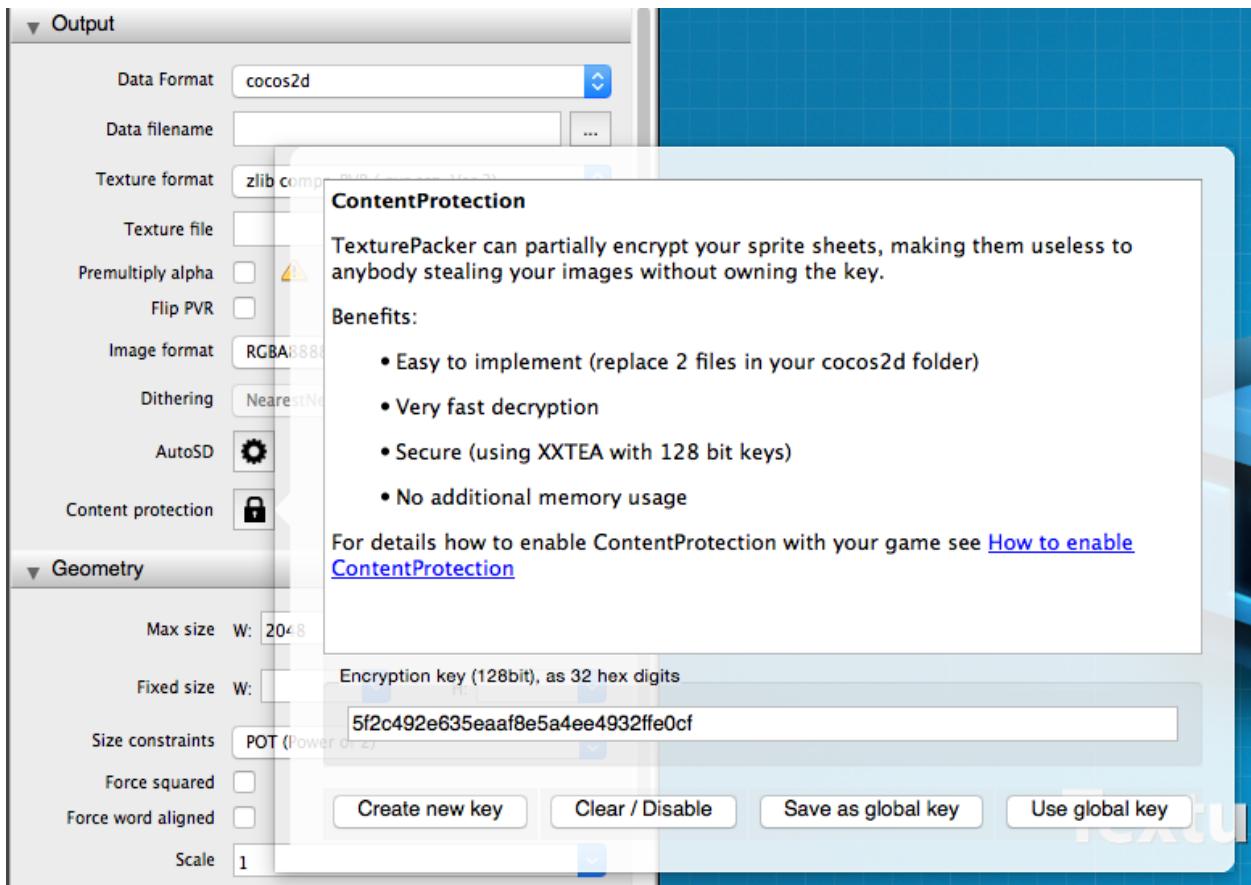


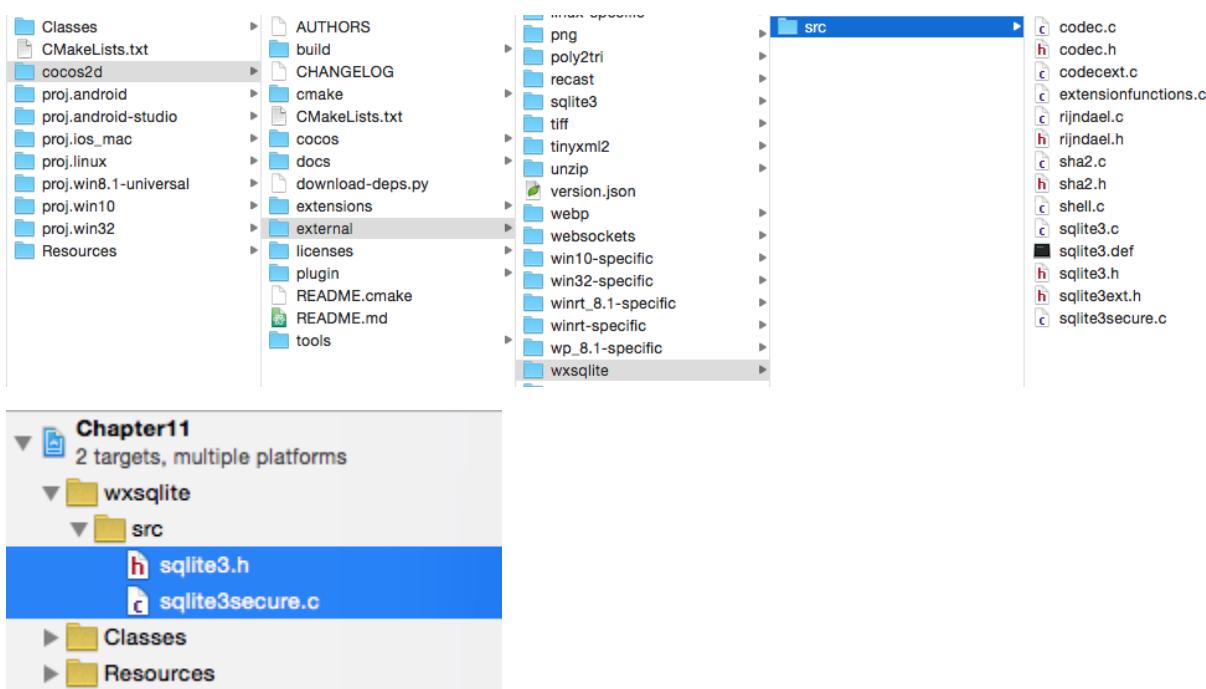
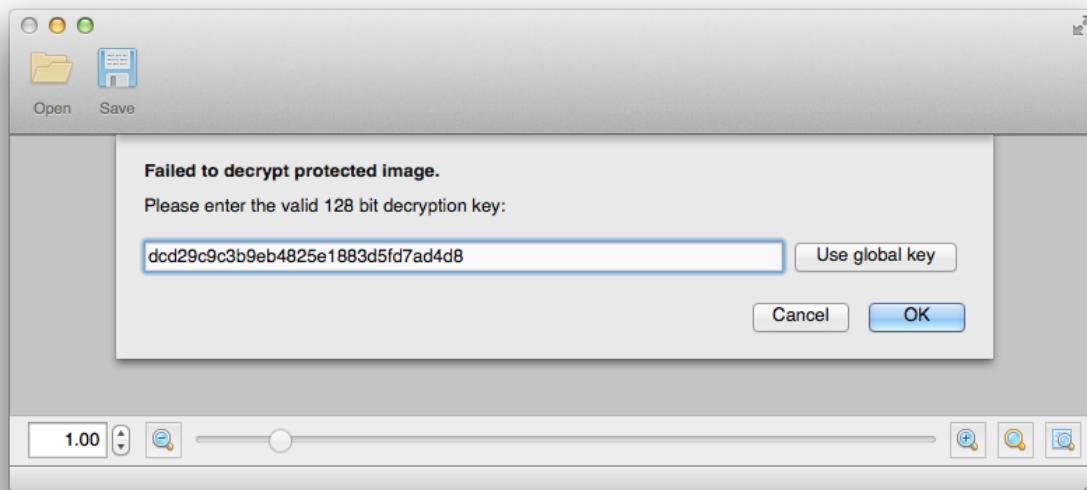






Chapter 11

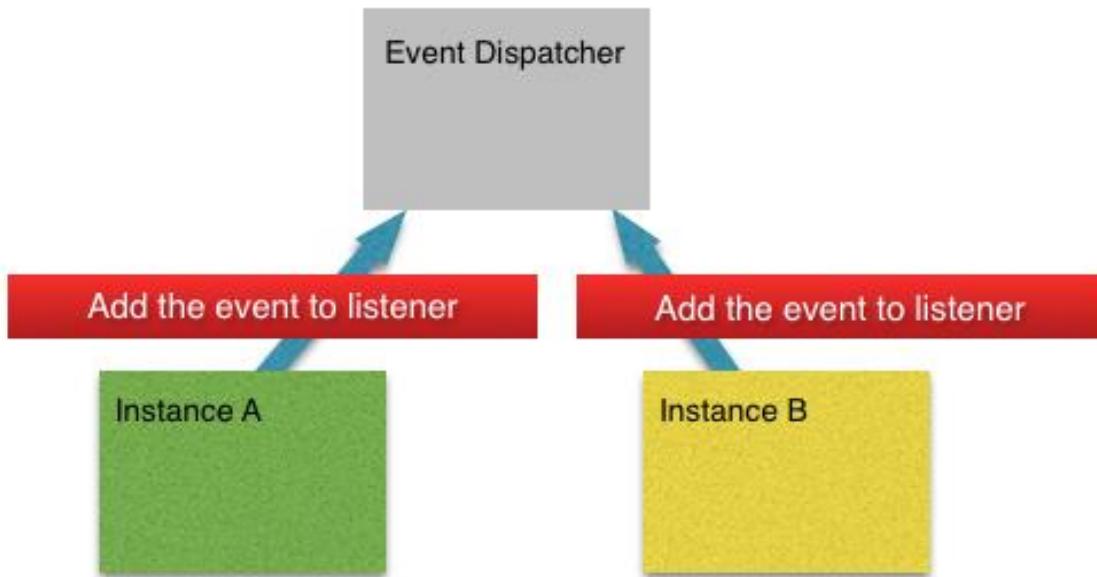




#### ▼ Apple LLVM 6.1 - Custom Compiler Flags

Setting	Chapter11-mobile
▼ Other C Flags	<Multiple values>
Debug	-DSQLITE_HAS_CODEC
Release	-DNS_BLOCK_ASSERTIONS=1 -DSQLITE_HAS_CODEC

## Add Custom Event



## Notify the event

