



# Interactive Story Studio (ISS)

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# Outlines

- ◊ Introduction.
- ◊ What did we use?
- ◊ Story Builder Studio.
- ◊ The Loader.
- ◊ Actions, Features and Particles
- ◊ Coordinators.
- ◊ Story: Candy House.
- ◊ Conclusion and Future Works.





# Introduction

An interactive story is one that allows kids to interact with all the elements shown on the screen and perform multiple actions on such elements.



# Introduction

Our project was to design a platform that enables storytellers to build interactive stories that runs on iOS and android without any programming expertise.





# Introduction

- ◊ In this project we followed a “content-driven” approach.
- ◊ Studio:
  - ◊ Design and build the story using a drag-and-drop approach.



# Introduction

- The Loader

- Makes the story come alive on the mobile device.





# What did we use?

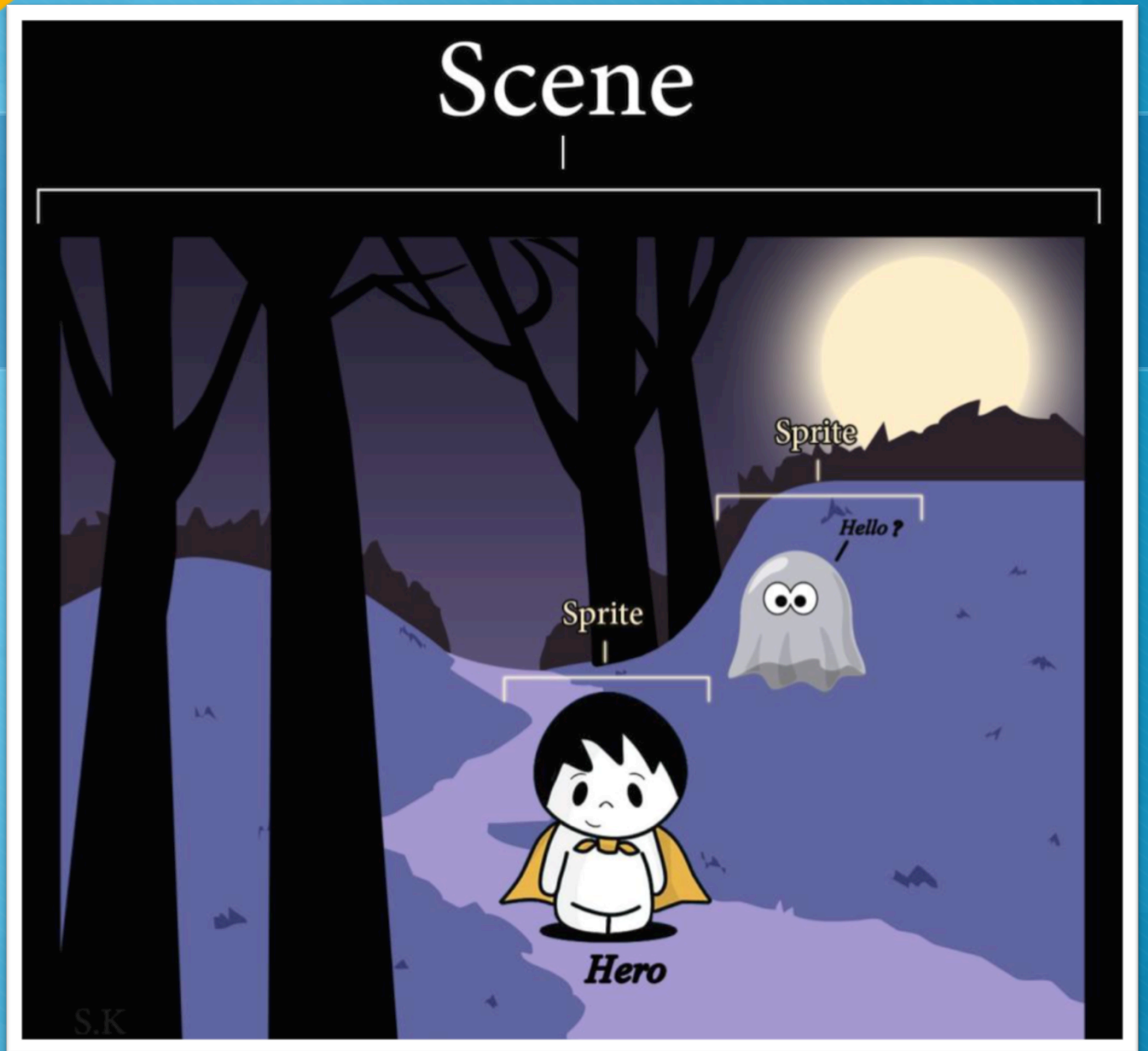
- Java
- Objective C
- Cocos2D-Swift Version 3
- Physics Engine : Chipmunk
- Photoshop
- Audacity



# Cocos2D

Scenes: Game Levels.

Sprites: Game Characters  
and Objects.





# Story Builder Studio



- It was implemented using JAVA language (Object Oriented).
- User-friendly and easy to work.

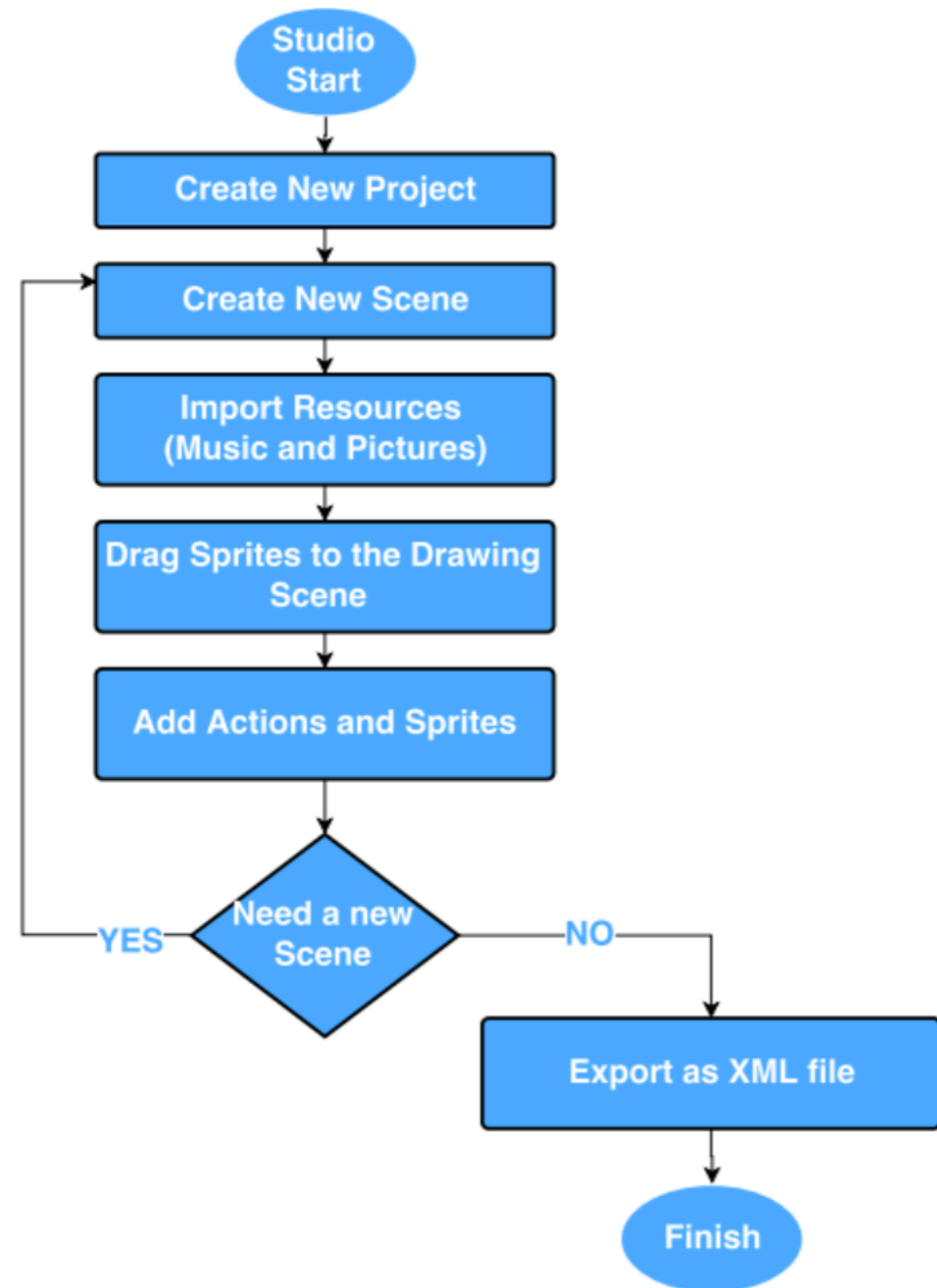
# Story Builder Studio



- Create Scenes and add characters, element and music.
- Just import the resources.
- Add Actions.



# Studio Flow Chart





# The Loader

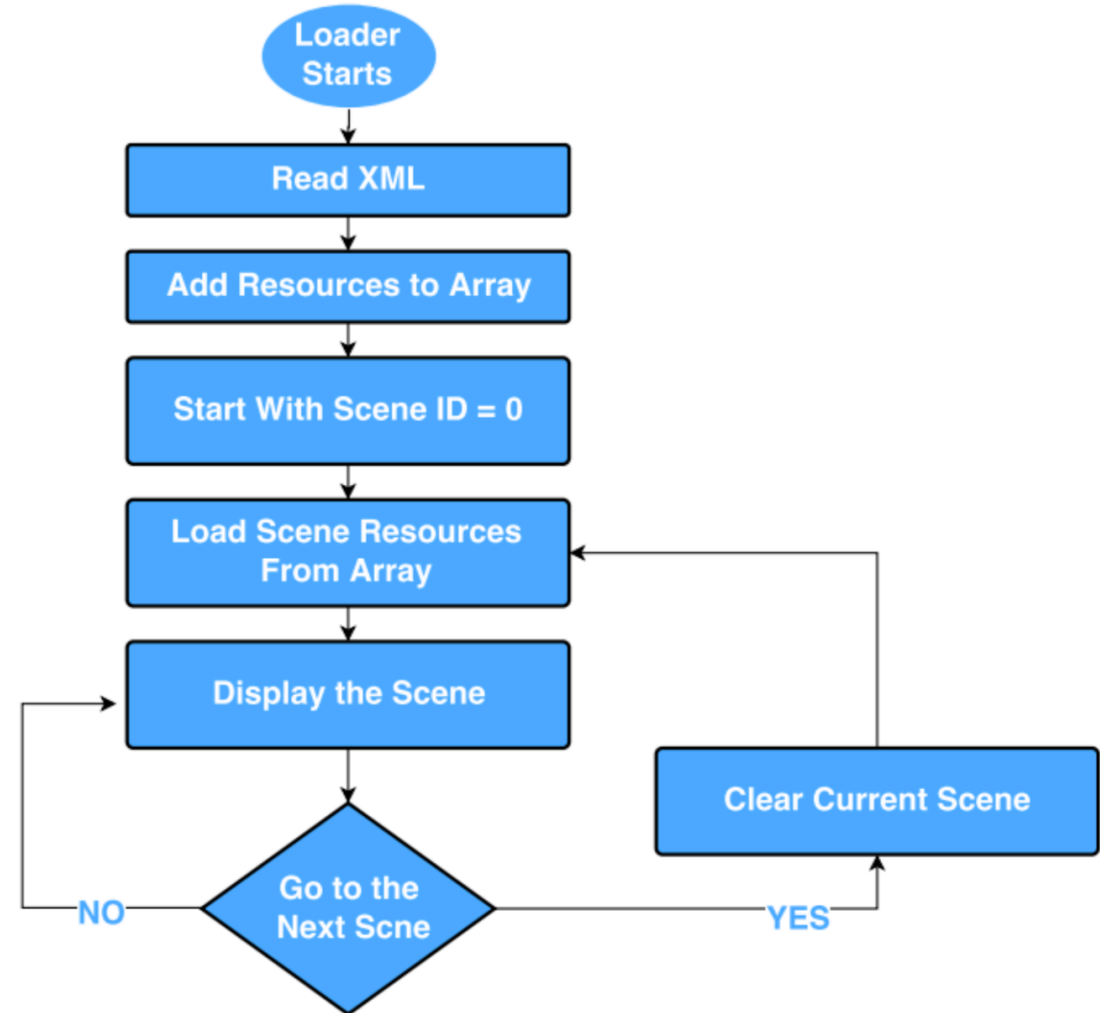
- ◊ Written in Objective-C.
- ◊ Used Cocos2D-Swift framework.



# The Loader

## ○ Process:

- Reads XML file.
- Parse XML elements.
- Loads them to an array.
- Run The Story.





# Actions

- ◊ Move and Jump.
- ◊ Fade In and Out.
- ◊ Scale and Rotate.
- ◊ Sound Effect.





# Actions

- ◊ Animation Actions.
- ◊ Share On.
- ◊ Take Photo.
- ◊ Go To Scene.
- ◊ Motions: Accelerometer and Gyroscope.



# When do Actions occur?

- On Enter.
- On Click.
- On Shake.
- On Blow.
- On Direction.





# Group of Actions

- On Parallel.
- On Sequence.



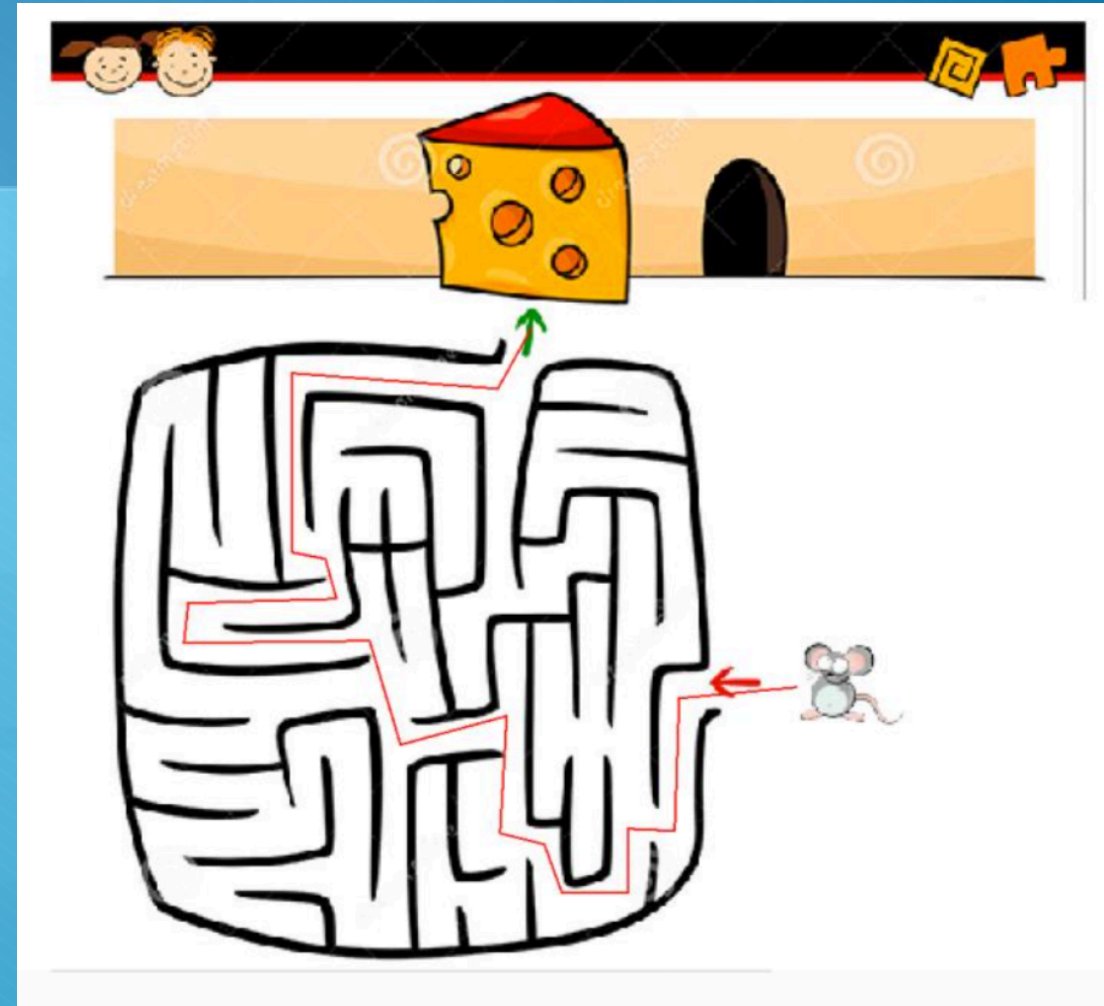
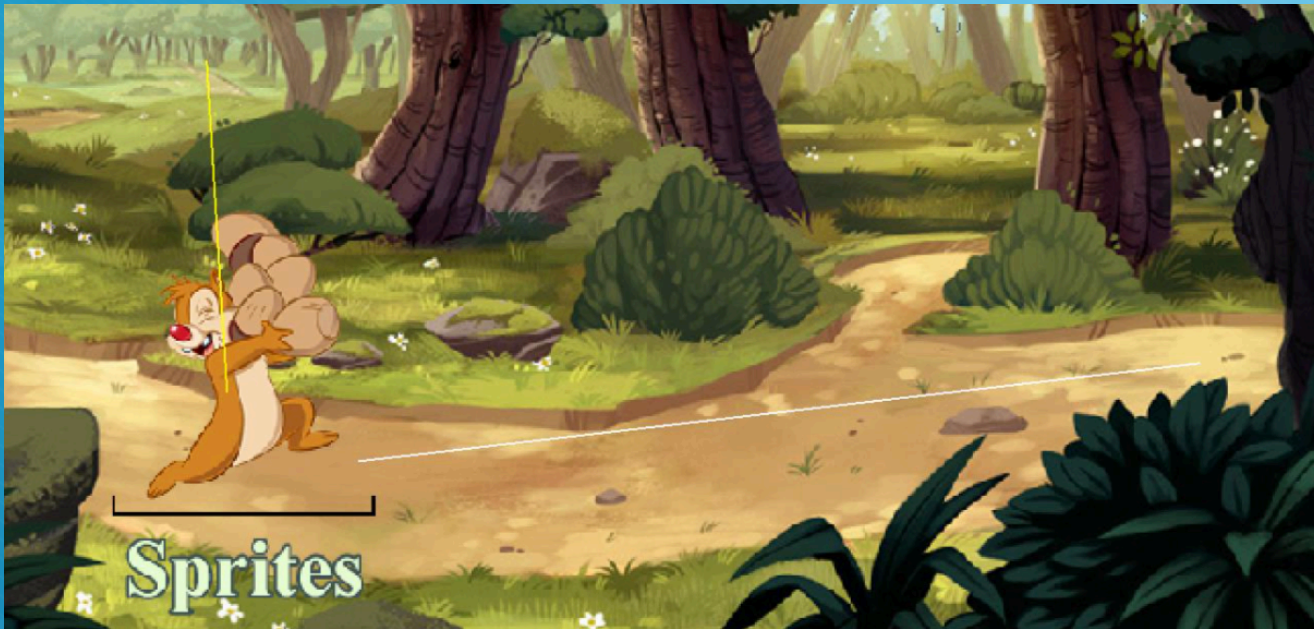
# Features

- ◊ Drag.
- ◊ Drop.
- ◊ Physics World.



# Coordinators

## ○ Paths





# Coordinators

## ○ Area





# Particles

Number of images,  
which work together to  
create a special effect like  
fire, rain, snow.





# Constraints

- ◊ Time.

- ◊ Graphics.



# Story

- Candy House –Hansel And Gretel-
- Application to test the platform.
- Language: Arabic.
- Number of Scenes: 19 (In Progress).
- Illustrated By: Abd el Rahman Najm el Din.





Demo Time





# Conclusion and Future Work

- ◊ Achieve our goals in creating a helpful and profitable platform.
- ◊ Create a complete application in less than a week.



# Conclusion and Future Work

- For future work:

- Support more actions and features especially physics.
- Support more frameworks like Sprite kit and coco2d-x.
- Support more mobile platforms like Android.





Thanks