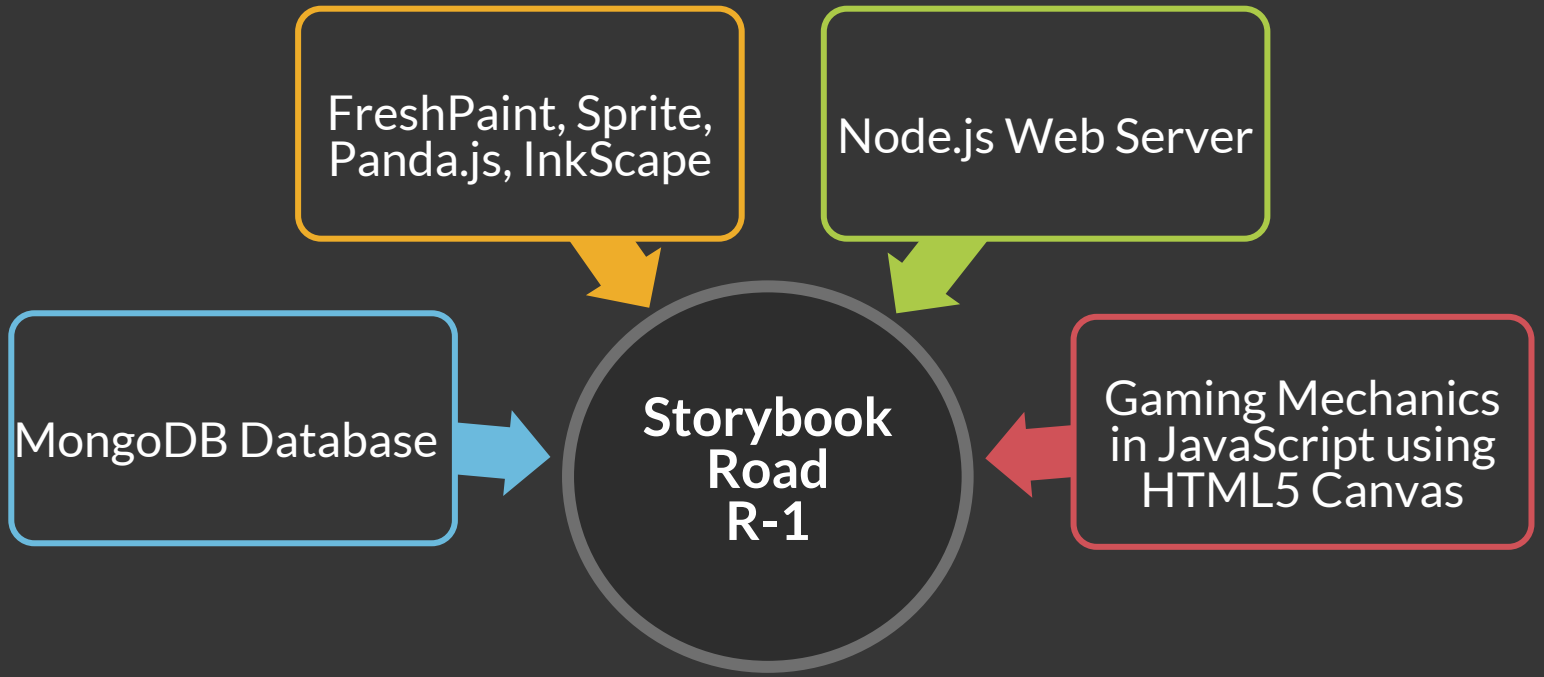
# RELEASE 1

# Project Goal:

Teach students to read through interactive storytelling using elementary school course material

# STORYBOOK ROAD TECHNOLOGY



# Sprint Summary to Date

| Sprint 1 | Sprint 2 | Sprint 3 | Sprint 4 |
|---|---|---|---|
| Test Platforms: Node, MongoDB, Firebase | Gather Educational Documentation | Roadmap Document | Integrate User Interface with Game code |
| Generated Concept Doc | Research Game Engines | Prototype Puzzle 1 | Prototype Puzzle 2 |
| Setup GitHub Group | Design Application Interface | Git Wiki Setup | Generate Rolling Background Images |
| Image and Sound collection, word lists | Integrate relevant grade level study | Word Lists grades 1 & 2 completed | Research madlib sentence structure |
| Completed | Completed | Completed | Completed |

# Release 1 Goals

## Web Interface

User Friendly:

- Teacher
- Student

## User Profile/Login

- Teacher Login
- Teacher Portal
- Student Login
- Grades 1 -5

## Story Progress

- Track current puzzle
- Track win/loss ratio
- Link to user

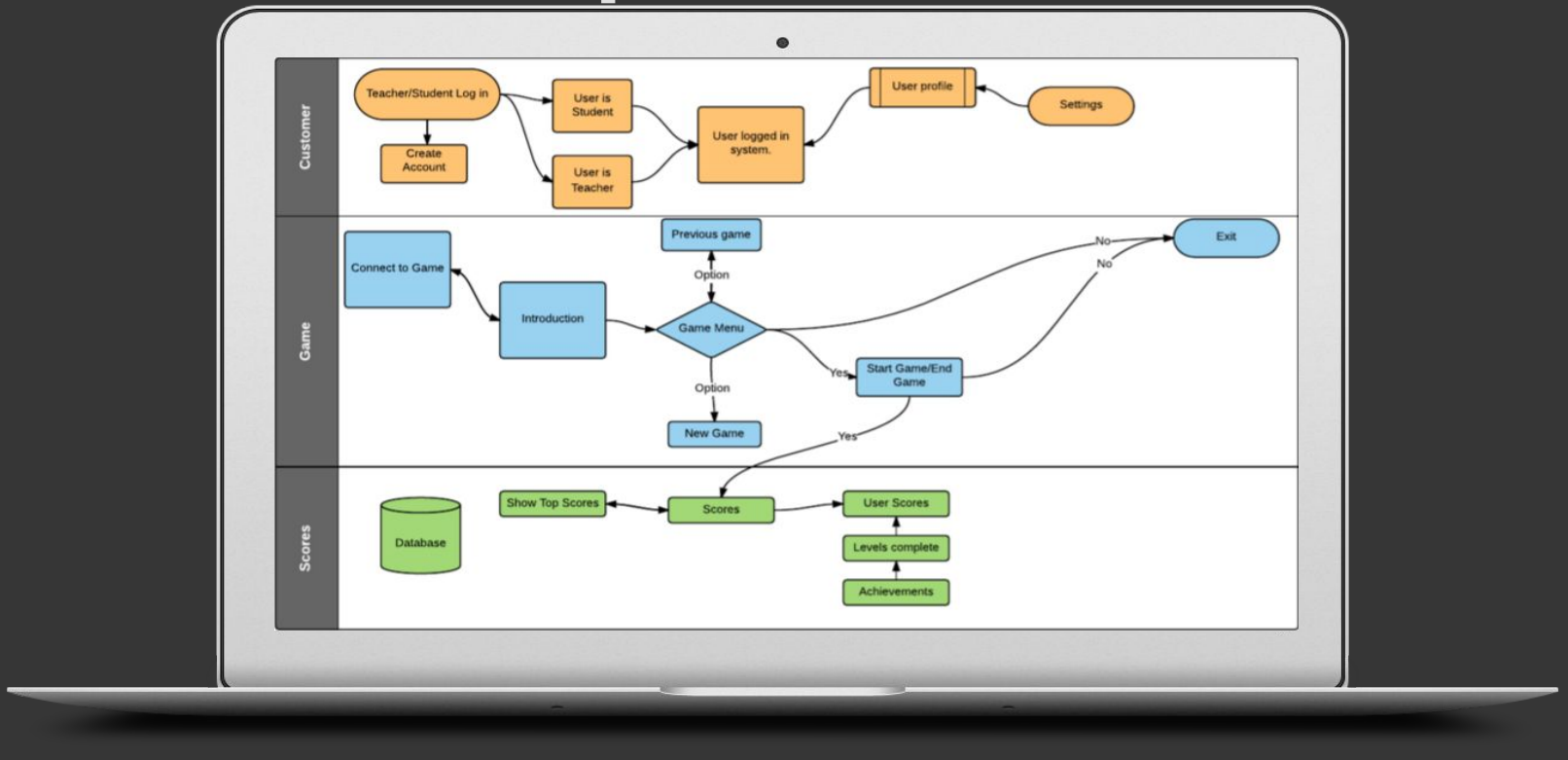
## Story Building

- Create puzzles involving fairy tales
- Create story with multiple puzzle types (scramble & multiple choice)

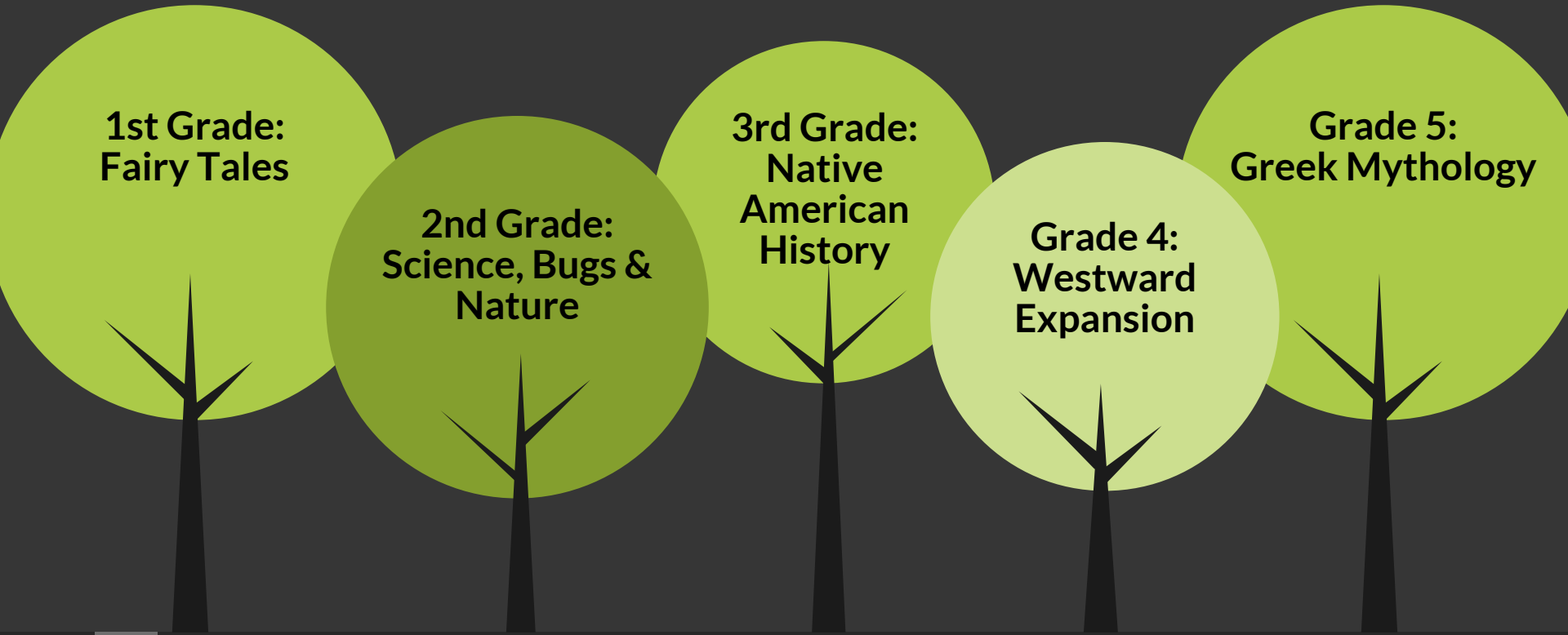
## Dynamic Puzzles

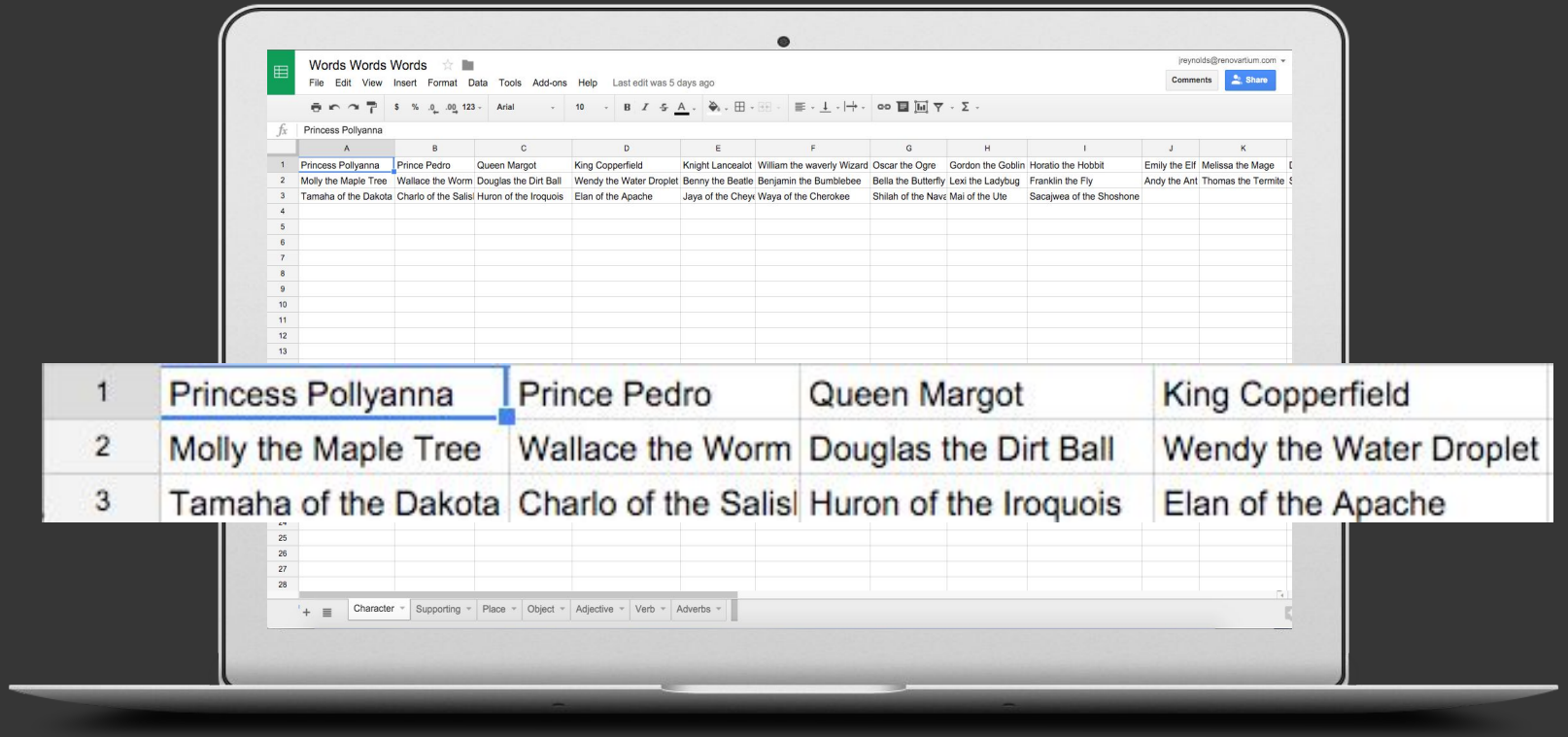
- Generate puzzles from items stored in database
- Puzzle level 2
- Load images

# Website Map

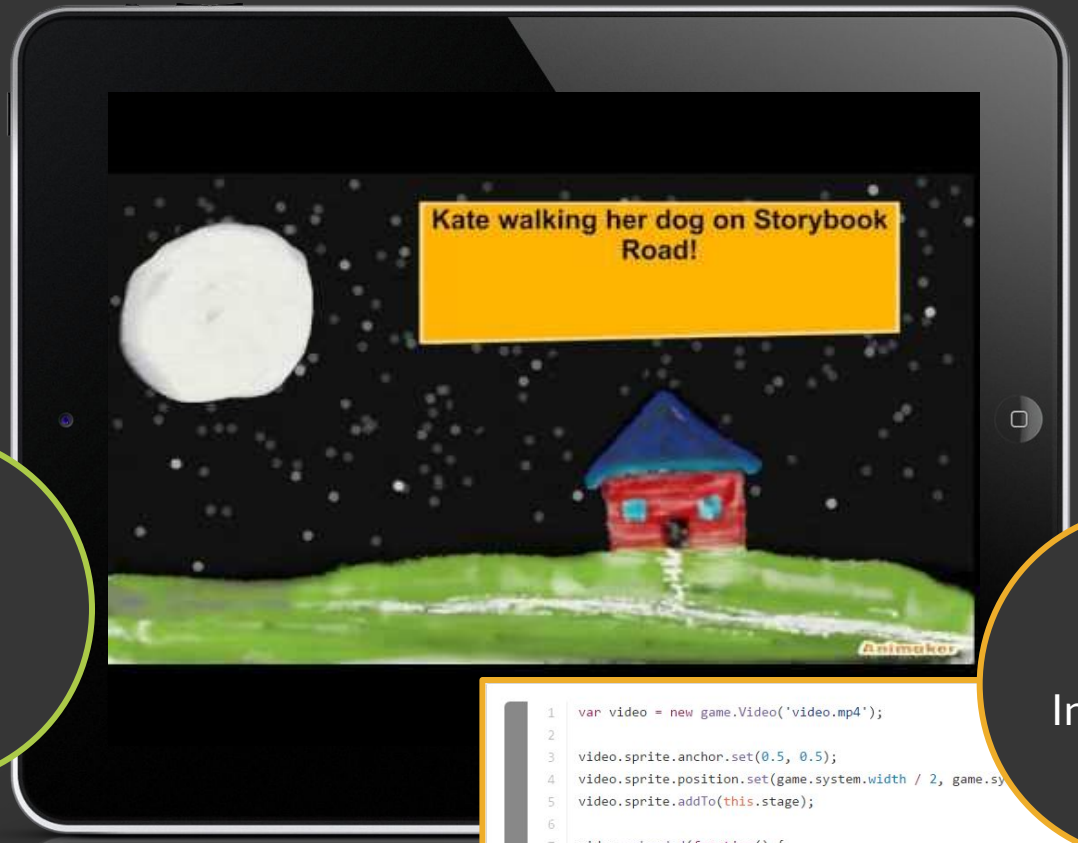

Customer
Teacher/Student Log in
Create Account
User is Student
User is Teacher
User logged in system.
User profile
Settings
Game
Connect to Game
Introduction
Previous game
Option
Game Menu
Option
New Game
No
No
Exit
Yes
Start Game/End Game
Yes
Scores
Database
Show Top Scores
Scores
User Scores
Levels complete
Achievements

# Course Material




Words Words Words
File Edit View Insert Format Data Tools Add-ons Help Last edit was 5 days ago
jreynolds@renovartium.com
Comments
Share
Princess Pollyanna
Princess Pollyanna | Prince Pedro | Queen Margot | King Copperfield | Knight Lancealot | William the waverly Wizard | Oscar the Ogre | Gordon the Goblin | Horatio the Hobbit | Emily the Elf | Melissa the Mage
Molly the Maple Tree | Wallace the Worm | Douglas the Dirt Ball | Wendy the Water Droplet | Benny the Beatle | Benjamin the Bumblebee | Bella the Butterfly | Lexi the Ladybug | Franklin the Fly | Andy the Ant | Thomas the Termite
Tamaha of the Dakota | Charlo of the Salis | Huron of the Iroquois | Elan of the Apache | Jaya of the Chey | Waya of the Cherokee | Shilah of the Nava | Mai of the Ute | Sacajwea of the Shoshone
Character
Supporting
Place
Object
Adjective
Verb
Adverbs


Character
Load Area
Game Asset
Load area
Animated
background

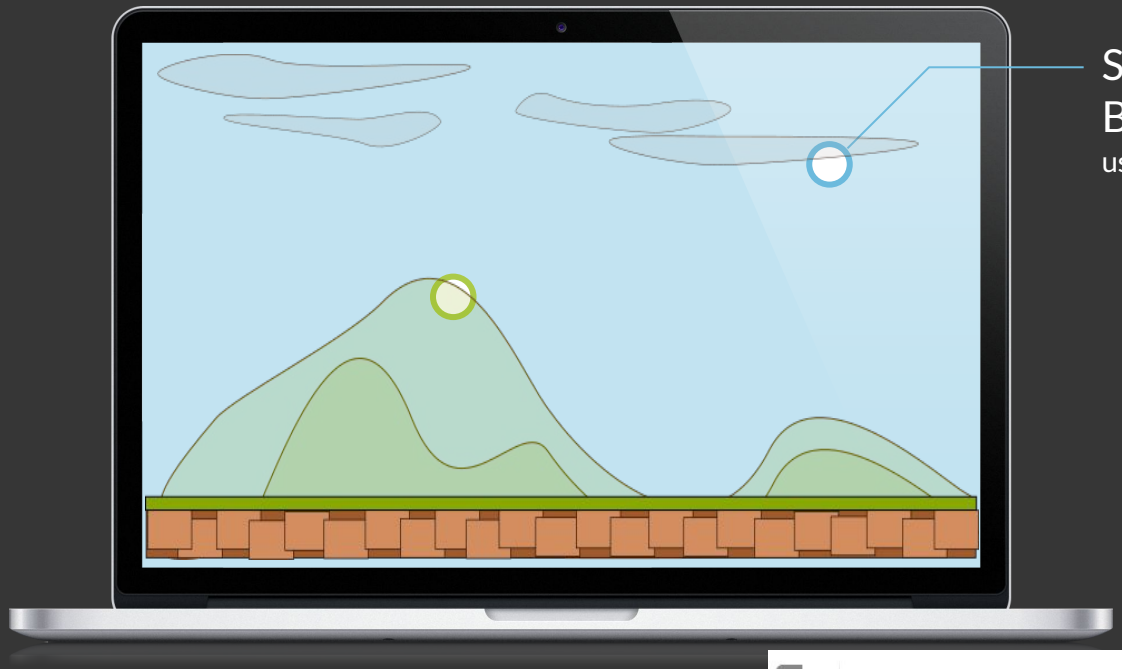



MP4
Panda.js

Video Integration

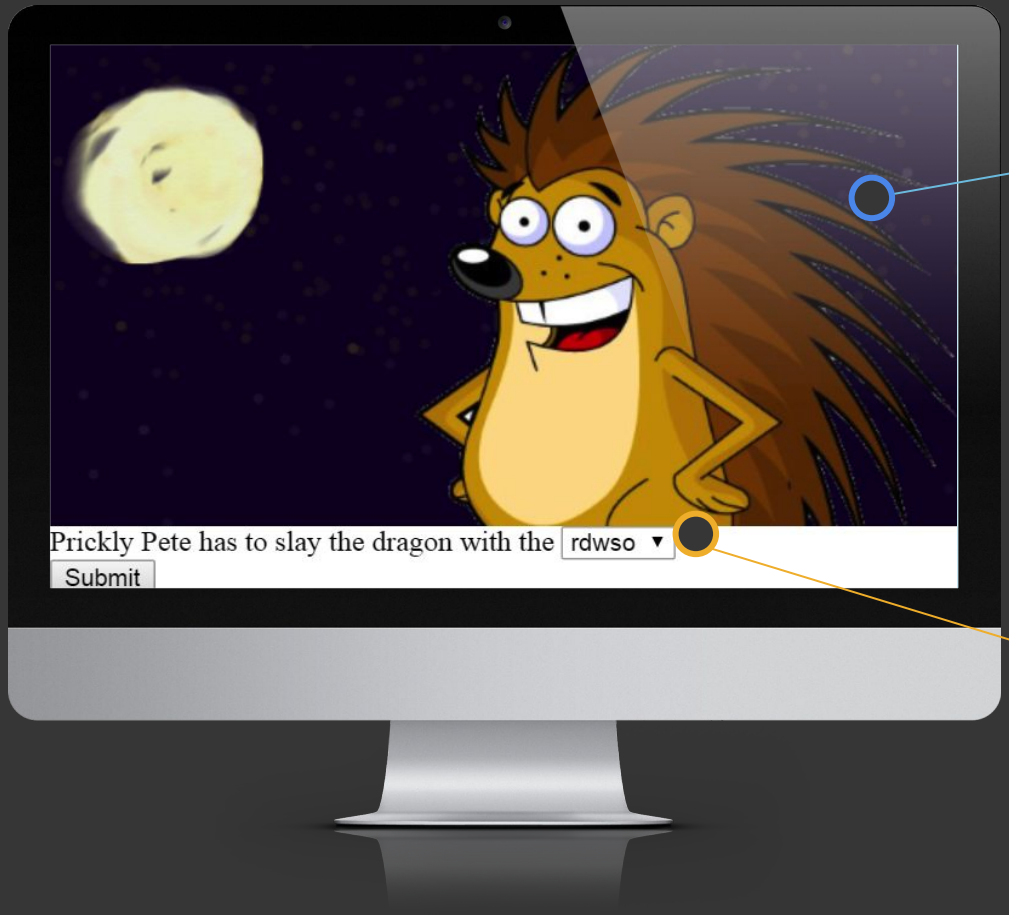
```
var video = new game.Video('video.mp4');

video.sprite.anchor.set(0.5, 0.5);
video.sprite.position.set(game.system.width / 2, game.sy
video.sprite.addTo(this.stage);

video.onLoaded(function() {
    // Video loaded
});
video.onComplete(function() {
    // Video complete
});
```

All images are layered for ease of use.



Scrolling Background
using Panda.js

```
// Create animation with 3 frames
var anim = new game.Animation('frame1.png', 'frame2.png', 'frame3.png');
// Set animation speed
anim.animationSpeed = 0.2;
// Play animation
anim.play();
// Add animation to stage
```




Dynamically loads characters and objects

MongoDB database


Dynamically loaded image from MongoDB
Dynamic Tag
Prickly Pete needs to find the yek
Submit

# Puzzle 1

Node.js
webserver

MongoDB
database

Colorful, kid-friendly and simple interface

Username is Email
Automatically differentiates teachers and students

New
Teacher Account

Class
Sorted by grade level

# Let’s See a Demo!

# Storybook Road

Learning Words Through Fairy Tales


- Issues merging via GIT
- Issues integrating MongoDB (callbacks)

- Consider moving away from websockets
- Game menu (focus on?)
- Basic animations for all images
- 4 Puzzle Types functional
- Authentication

- In Depth Animations
- 6 Puzzle Types
- Fully functional word replacement
- Save states