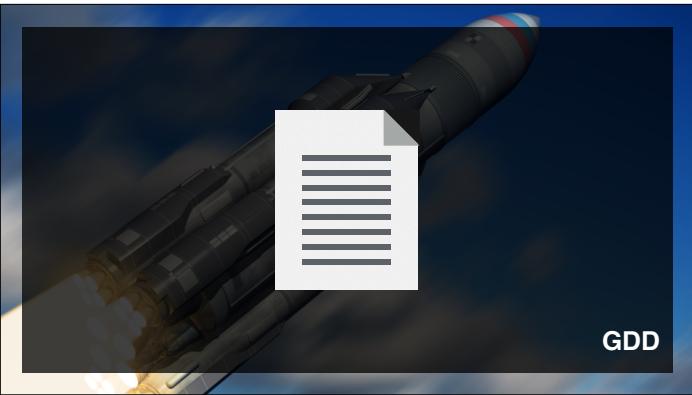


ACT I: Creating The Context



What Glitch Garden Teaches

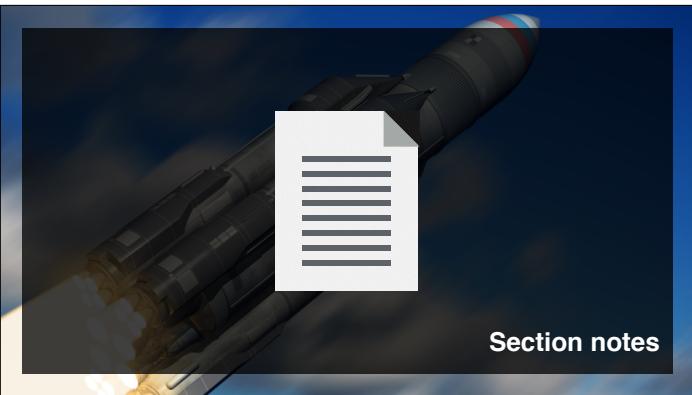
- MAJOR: **2D Animation** (frame, and rigged)
- Minor A: **Mobile** compatible, no keyboard use.
- Minor B: **Components** to make code extendable.
- Minor C: **Options Menu** scene & PlayerPrefs.



1

2

Downloads Here



Testing Our Destruction

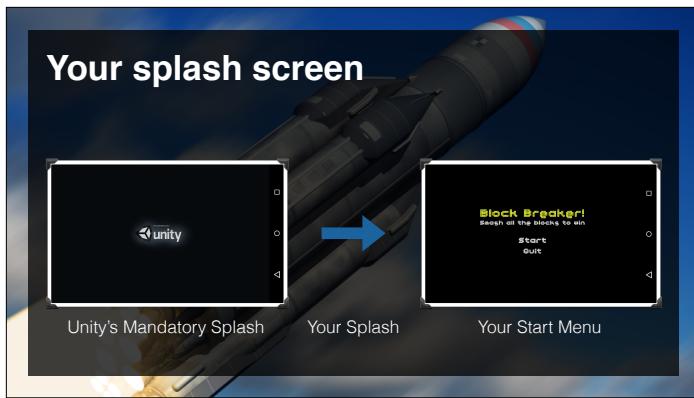
	One Zombie	Zombies Bunched	Sequential Zombies
Plant Dies First			
A Zombie Dies First			
All Bunched Zombies Die			

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Make A Splash Screen

In this video...

- What is a splash screen
- Why use a splash screen
- Singleton-free music manager
- Make you splash-screen
- Add music, and make Start Menu auto-load





- ### Some resources
- Fonts: www.dafont.com
 - Music: www.freesound.org
 - Images: Google images etc.
 - Also, wallpaper and music from www.glitchthegame.com/downloads

Make you splash-screen

- Add a simple UI > Image*.
- Add a short start sound (5s or less).
- Import Start Scene from previous project.
- Arrange for Start Scene to load after 1-5s

* Don't worry about scaling for now, suggest 16:9



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Scaling & Aspect Ratios



In this video...

- We're building for "mobile first" here.
- No use of keyboard, just tap & drag.
- Mobile device aspect ratios.



Mobile Device Aspect Ratios

Aspect Ratio	Decimal	Example Devices
4:3	1.3	iPad (1, 2 & 3). Some old Android devices.
3:2	1.5	iPhone (<= 4S). Some Android devices.
16:10	1.6	Android phones and tablets.
17:10	1.7	Android tablets
16:9	1.8	iPhone 5 / 6. Android devices

<http://rusticode.com/2014/01/11/handling-resolutions-and-aspect-ratio-of-common-mobile-devices-for-web-application-and-game-development>

Background Image Options

- Stretch: easy but ugly.
- Black bars: appropriate in extreme cases.
- Crop edges: ok with care about what's lost.

Quiet Zones On Image Sides



Setup Start Scene

- Read Unity Docs*
- Explore various options
- Try and get a satisfactory result

<http://docs.unity3d.com/Manual/class-RectTransform.html>

<http://docs.unity3d.com/Manual/script-CanvasScaler.html>



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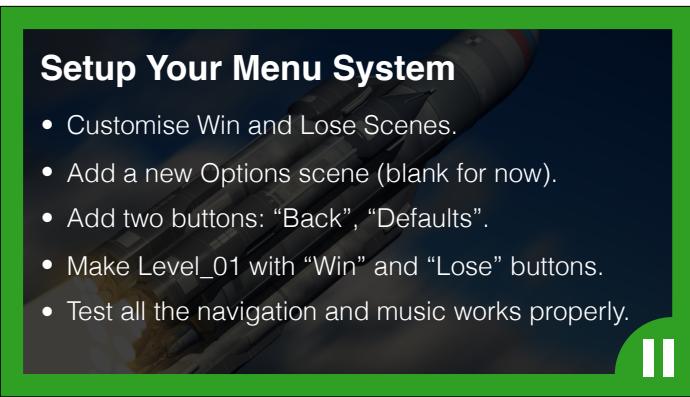
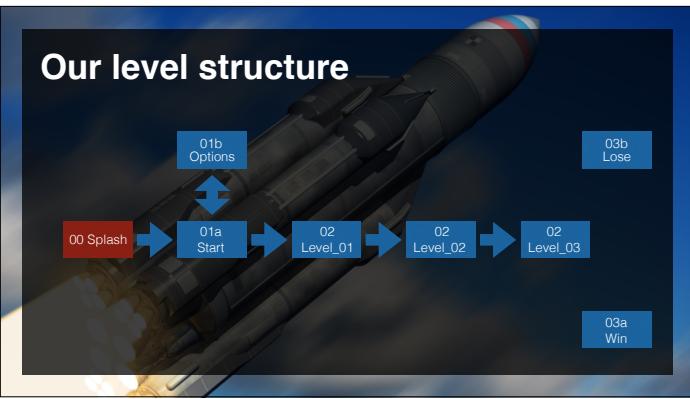
Alternative Music Manager



In this video...

- An alternative MusicManager.cs architecture
- Customise your Win and Lose scenes.
- Test it all looks and sounds good.





In this video...

- Customise Win and Lose Scenes.
- Add a new Options scene (blank for now).
- Add two buttons: "Back", "Defaults".
- Make Level_01 with "Win" and "Lose" buttons.
- Test all the navigation and music works properly.

Why We Prefab LevelManager

- Need instance to use UI OnClick().
- With persistent scripts, isn't in scene at edit time.
- **Can** use a prefab, but then can't properties.
- Methods can't be static for use with OnClick().
- So prefab "Level Manager", optionally drop in.

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Adding Fade Transitions

In this video...

- Adding a nice fade-in to the Start Scene.
- Giving-up on spelling lose / lose / whatever.
- Add background image to levels.
- Check it all flows / scales nicely.

Make Start Scene Fade In

- Make the start scene fade-in over a variable time.
- Try it your way, it's great learning.
- Use Google / think of alternatives.
- Hint 1: I'll be using a UI > Panel and it's "alpha".
- Hint 2: A good place for the script is this panel.

Scaling Level Backgrounds

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In this video...

- Canvas Scaler “Screen Match Mode”.
- Use a “Raw Image” & grass texture.
- Define play space, and quiet zones.
- Setup our Level with prefabs.

Screen Match Mode = Shrink

Add Grass To Levels

- At least 5 rows and 9 columns at 4:3.
- Make it fill the screen for now.
- Prefab the Canvas for other levels.
- Ensure it scales “properly” with Game window.

Our PlayerPrefsManager.cs

In this video...

- What is PlayerPrefs, and why is it useful?
- Limitations of PlayerPrefs
- Why we're providing our own wrapper class.
- Create PlayerPrefsManager.cs static wrapper.

Limitations of PlayerPrefs

- Can be slow to read and write.
- Max file size is 1 MB.
- Only supports Float, Int, String (no bool etc)
- Don't abuse!

Our Wrapper Class

- Centralises all PlayerPrefs read / write.
- Static so available from anywhere.
- Allows for checking / error handling.
- Much safer and clearer.

Write IsLevelUnlocked (int level)

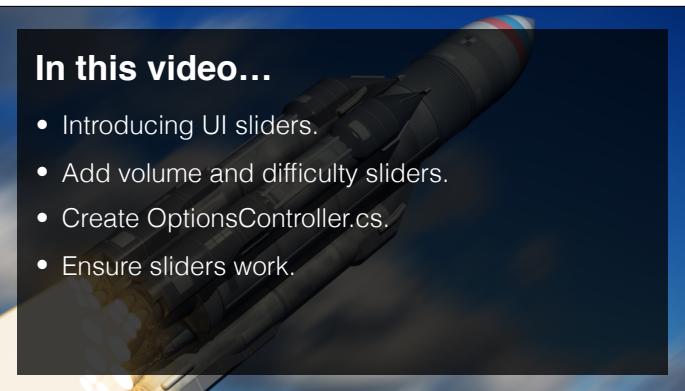
- Returns true if the value against the key is 1.
- Returns false otherwise.
- If level index not in build order...
 - Log a helpful error.
 - Return false.

Write Difficulty Wrapper

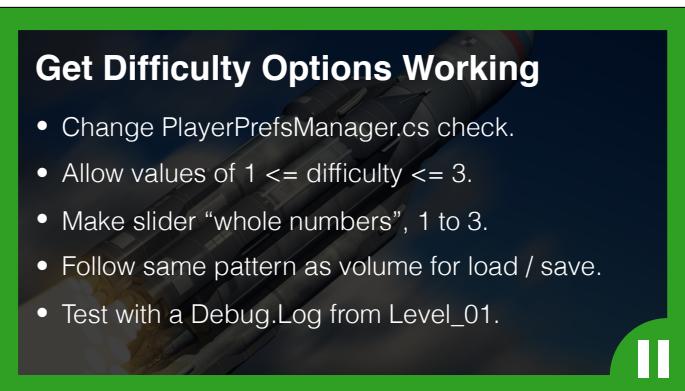
- const string DIFF_KEY = "difficulty"
- public static void SetDifficulty (float volume)
- public static float GetDifficulty ()
- check it all works with Debug.Log



UI Sliders For Options



- Introducing UI sliders.
- Add volume and difficulty sliders.
- Create OptionsController.cs.
- Ensure sliders work.



- Change PlayerPrefsManager.cs check.
- Allow values of $1 \leq \text{difficulty} \leq 3$.
- Make slider "whole numbers", 1 to 3.
- Follow same pattern as volume for load / save.
- Test with a Debug.Log from Level_01.



In this video...

- The sprite sheet (AKA sprite atlas).
- Comparison to bone-based animation.
- Importing & slicing sprite sheets.
- Making your first animation.

Bone-Based vs Sprite Sheet / Atlas



Calculating Slice Grid

- Grid sheets usually have no padding.
- Grid width = image width / columns.
- Grid height = image height / rows.

Import Your Sprite Sheet

- Calculate the grid width / height.
- Slice your sheet and check it looks OK.



Making A 2D Animation

- Create an empty GameObject.
- Drag one of the sprites a placeholder.
- Add an **Animator** (animations being phased-out).
- Go into **Animation** window.
- [Create New Clip] from drop-down.



Make Your Animation

- Make and preview your own animation.
- Make sure the frame rate ("Samples") is right.
- Don't worry about it fitting in the scene for now.

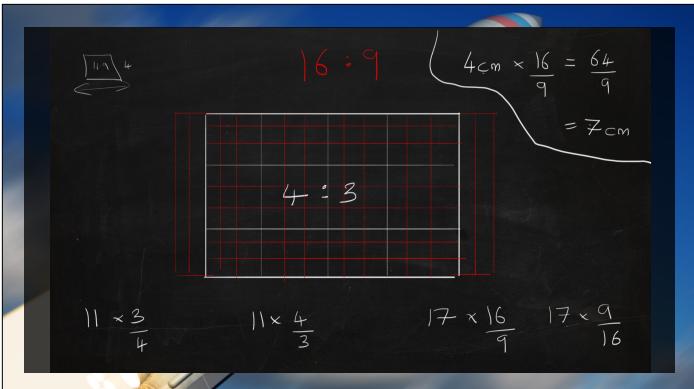


Ratio Math Primer



In This Video...

- The fundamentals of ratio math(s).
- What screen aspect ratios mean.
- How to convert between different aspects.



Calculate Screen Width

- If a 16:9 screen is 4cm high, how wide is it?
- Share your reasoning in the discussions.

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World Space UI Canvas

Adjust grass tiling (using UV Rect*)

- **12 grass squares wide in 16:9 aspect.**
- In both aspects, that's **6.75 grass squares tall**.
- There are **2 grass squares per tile**.
- Therefore we want $W = 12 / 2 = \mathbf{6 \text{ tiles wide overall}}$.
- Height therefore $H = 6.75 / 2 = \mathbf{3.375 \text{ tiles high}}$.

* http://en.wikipedia.org/wiki/UV_mapping

In this video...

- Change to world space canvas for levels.
- Adjust grass tiling (using UV Rect).
- Add temporary “Core Game” panel.
- Translate & scale the level canvas.
- Adjust & prefab the camera.

About image aspect ratios



Add temporary “Core Game” panel

- Set to $1600 / 4 * 3 = 1200$ pixels wide.
- Note it covers 9 columns as per GDD.
- Adjust to 5 rows high, leaves nice space
- Centre on the screen.
- This will be our world-space coordinate system.

Translate & scale the level canvas

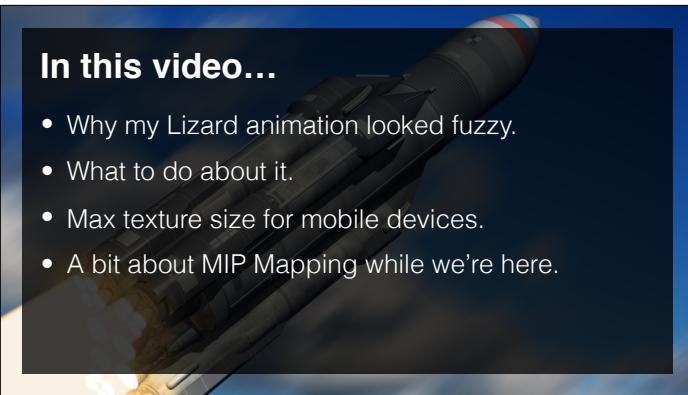
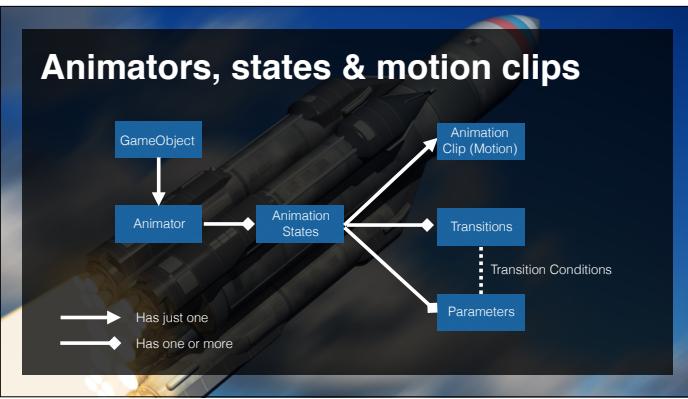
- 1 grass square = 1m = 1 World Unit
- Width is 1600 pixels, and 12 World Units Wide
- “Pixels Per World Unit” = $1600 / 12 = 133.333\dots$
- Scale Level Canvas $12 / 1600 = 0.0075$ in X & Y

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The Animation Controller

In this video...

- How animators, states & motion clips relate
- Adding multiple animation states & clips.
- Options for transitioning between them.
- Again, only animate one character for now.



MIP Mapping

- A technique where an original high-resolution texture map is scaled and filtered into multiple resolutions within the texture file.
- Takes up 33% more space, but MUCH faster.
- Not needed if we're at a fixed distance.

How to prevent fuzzy lizards

- Check your sprite sheet size in pixels.
- Look at the maximum x or y dimension.
- Ensure your texture "Max Size" is larger
- OR compact your sprite sheet.
- You can leave compression on though.

Useful Resources

<http://answers.unity3d.com/questions/563094/mobile-max-texture-size.html>

<https://www.codeandweb.com/texturepacker>

<http://renderhjs.net/shoebox>

<http://www.glitchthegame.com/public-domain-game-art>

Using Gimp To Slice Images



In this video...

- Introducing “bone based animation”.
- Using Gimp on Mac or PC to slice images*
- How to import and set pivot points.

**Same principles apply to any other image editor.*

Slicing images in Gimp

- **Image > Canvas Size...** increase by 2 pixels
- **Layer > Layer To Image Size** for yellow box
- **Tools > Selection Tools > Rectangle Select**
- Cut and paste section 2 pixels lower
- Save as PNG in Unity Assets folder

Prepare your sprite sheet

- Create at least one sprite sheet for bone animation.
- Make sure there's a pixel or two gap around limbs.
- Export with a transparent background.
- Import into Unity as multiple sprite.
- Set pivot points appropriately.



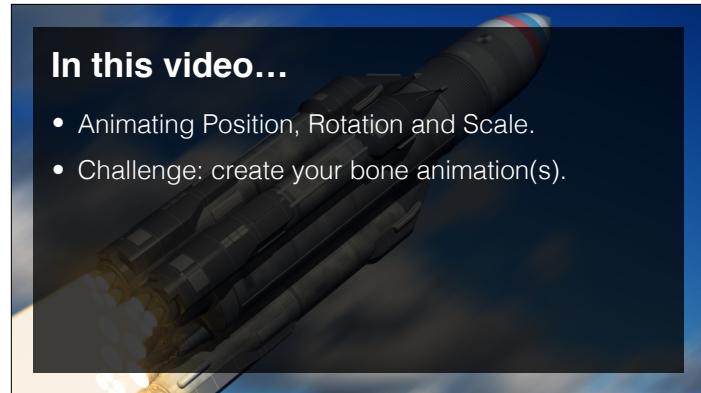
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2D “Bone-Based” Animation



In this video...

- Animating Position, Rotation and Scale.
- Challenge: create your bone animation(s).



Create at least one bone animation

- Add life to a still sprite (e.g. gravestone or star).
- Move or rotate it's transform slightly.
- Make it loop this animation continuously.
- Give it at least two animation states.
- For example idle and attacking / attacked.



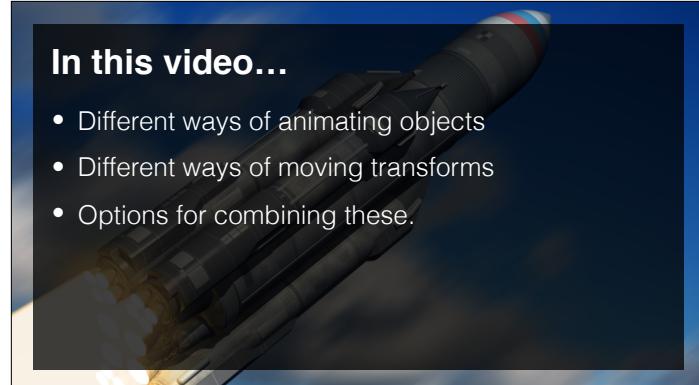
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Animating Our Lizard



In this video...

- Different ways of animating objects
- Different ways of moving transforms
- Options for combining these.



Different ways of moving objects

	Sprite Sheet	Bone Based	Move Pivot in Script
Attackers	Animation	N/A	All
Defenders	Gone & Cactus	Star Trophy & Grave Stone	N/A
Defender Projectiles	Single Frame	Rotation	Translation

Character Animation Overview

1. Create character parent, and child Body object
2. Ensure there is an animator on the parent object
3. Convert sprite sheet into separate frames
4. Add SpriteRenderer curve to Body object
5. Adjust animation to taste and repeat.

Animate Your Lizard

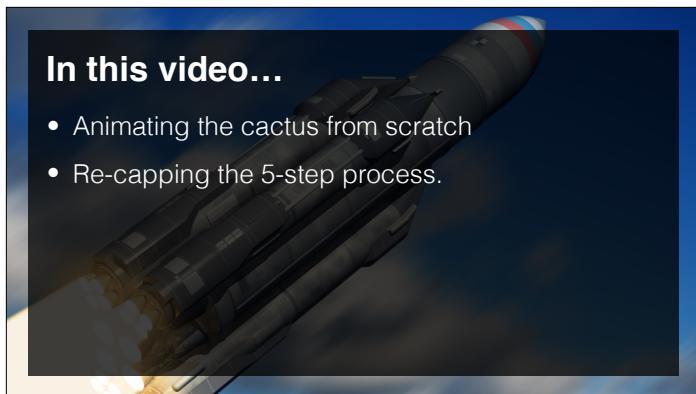
- Animate the Lizard in place using sprite-sheet
- Cycle through each state every 3 seconds.

Animating Our Cactus



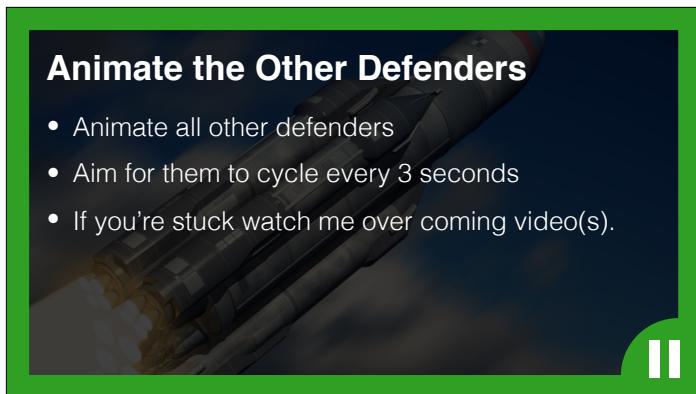
In this video...

- Animating the cactus from scratch
- Re-capping the 5-step process.



Animate the Other Defenders

- Animate all other defenders
- Aim for them to cycle every 3 seconds
- If you're stuck watch me over coming video(s).

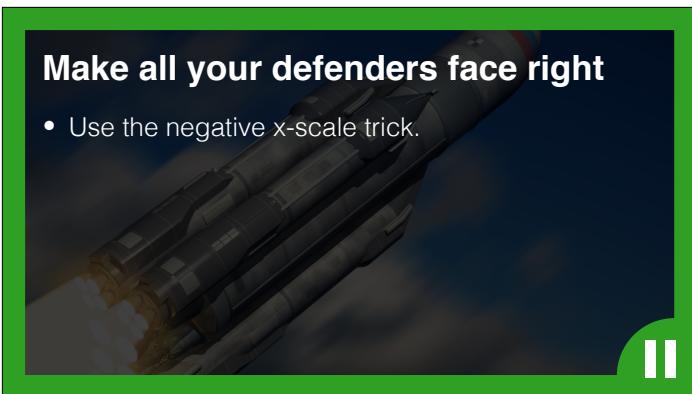


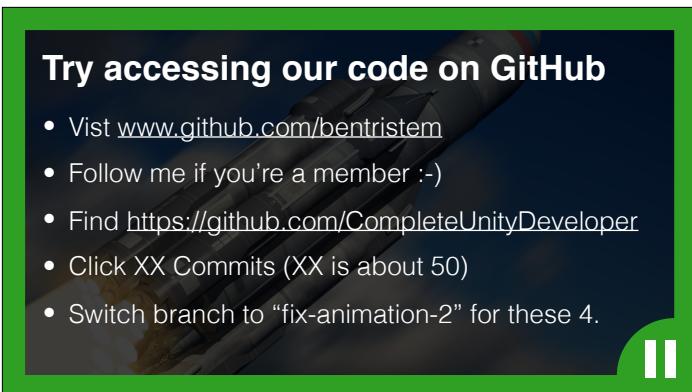
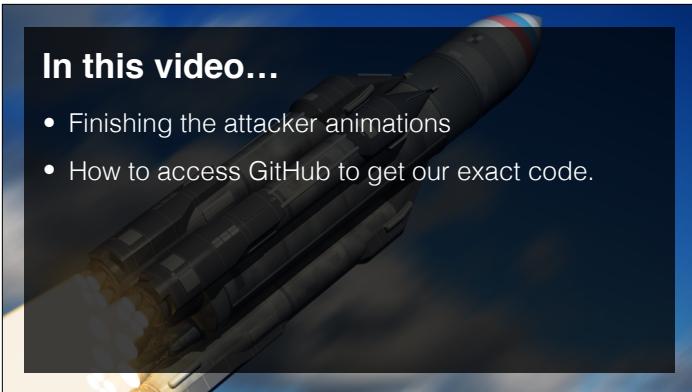
Finishing Our Defenders

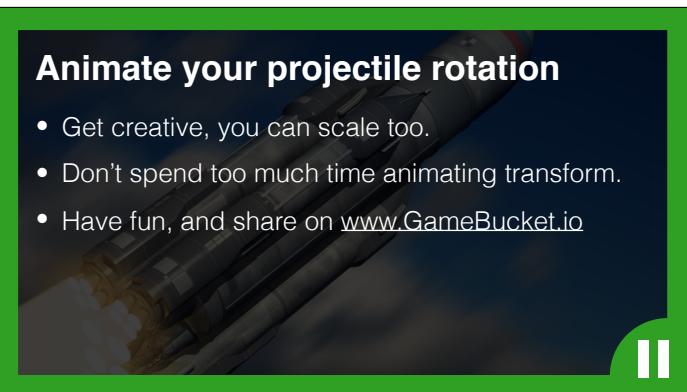
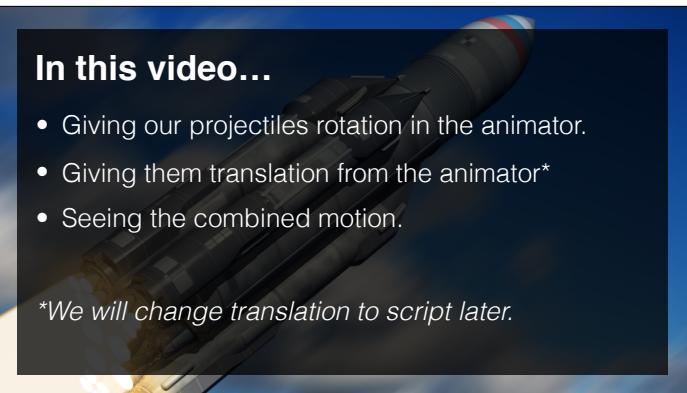


In this video...

- Finishing the defender animations
- How to make a sprite face the other way.









Using Unity Remote

- What's Unity Remote and why's it useful.
- Unity Remote 4 on app stores (iOS and Android)
- How to use it.
- It's limitations.

<http://docs.unity3d.com/Manual/UnityRemote4.html>

Setting Up Unity

- Edit > Project Settings > Editor.
- Set "Unity Remote" Device to iOS or Android.
- Restart Unity if you're changing this.
- Set Game window resolution to that of device.
- Make the window at least this large if possible.

Setting Up Android

- Enable Developer options (see about 2 mins)...
 - Stay awake
 - USB debugging
 - Allow mock locations
- Settings > Storage > USB computer connection
 - Camera (PTP)

Setting Up iOS

- Allow connection on iOS and computer.
- Make sure the cable is plugged in!
- Try restarting app if it doesn't work.
- Also try restarting Unity.
- Click Play in editor each time you want to test.

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Review & Improvements

In this video...

- Read music volume on load, improve Win & Lose.
- Catch 1st order error with **autoLoadLevelAfter()**.
- Alternative fade without coding (thank Ryan).
- Save our scene of sprites & prefab everything.
- Our current project state is attached.

Set volume on Start scene

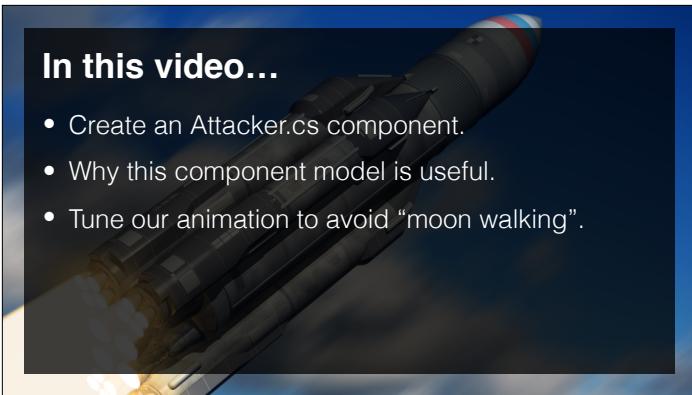
- Background music on Start should obey Options



Mid-Section QUIZ







Find & save walk speeds

- Find ideal speed for each attacker.
- Save these speed values back to prefabs.



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Collision Matrix In Script



In this video...

- Using **OnTriggerEnter2D (Collider2D collider)**.
- Why we are using triggers not physics.
- Why we won't use the collision matrix this time.
- Adding appropriate colliders to all objects.



Why not use collision matrix this time

- Matrix would look like this,
- Must distinguish anyway.
- May as well keep all the decisions in one place.
- That place is the script.

	Default	TransparentFX	Ignore Raycast	Water	UI	Attackers	Defenders	Projectiles
Default	✓	✓	✓	✓	✓	✓	✓	✓
TransparentFX	✓	✓	✓	✓	✓	✓	✓	✓
Ignore Raycast	✓	✓	✓	✓	✓	✓	✓	✓
Water	✓	✓	✓	✓	✓	✓	✓	✓
UI	✓	✓	✓	✓	✓	✓	✓	✓
Attackers	✓	✓	✓	✓	✓	✓	✓	✓
Defenders	✓	✓	✓	✓	✓	✓	✓	✓
Projectiles	✓	✓	✓	✓	✓	✓	✓	✓

Collider interaction matrix (copy)

	Static Collider	Rigidbody Collider	Kinematic Rigidbody Collider	Static Trigger Collider	Rigidbody Trigger Collider	Kinematic Rigidbody Trigger Collider
Static Collider	collision				trigger	trigger
Rigidbody Collider	collision	collision	collision	trigger	trigger	trigger
Kinematic Rigidbody Collider		collision		trigger	trigger	trigger
Static Trigger Collider			trigger		trigger	trigger
Rigidbody Trigger Collider	trigger	trigger	trigger	trigger	trigger	trigger
Kinematic Rigidbody Trigger Collider	trigger	trigger	trigger	trigger	trigger	trigger

Derived from <http://docs.unity3d.com/Manual/CollidersOverview.html>

Add appropriate colliders to all

- Add 2D colliders (and Rigidbody2D) on...
 - Attackers.
 - Defenders.
 - Projectiles.
- Test with **Debug.Log** entries, don't filter yet.

Using Animation Events

In this video...

- The “what” and “why” of animation events.
- What methods can be called, and what can’t.
- Modify Attacker.cs to accept speed events.
- Get animation transitions working for all attackers.
- Add “wishful” StrikeCurrentTarget() method.

Set walk speed at start of animation

- Add animation event.
- Select the appropriate function.
- Pass a speed parameter that stops feet slipping.
- Test it works in Play mode.

Add StrikeCurrentTarget() method

- Add **StrikeCurrentTarget (float damage)**
- Log something helpful for now.
- Add 1+ animation events to attackers.



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Attacker Animation Transitions



In this video...

- Get our attacker animation transitions working.
- Temporary inspector access to attacker state.
- Ensure all animations transition smoothly.



Setup enum for attacker state

- Use appearing, attacking and walking.
- Ensure attackers only move left when walking.



Fix animations for other attackers

- Each one to appear in a lane of their own.
- Start with appear animation, or at X = 12.
- Walk left unless Attacking or Jumping.
- Keep walking once finished Attacking or Jumping.



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Components “vs” Inheritance



In this video...

- The different approaches to abstraction.
- The benefits of a component model.
- Get **StrikeCurrentTarget()** working.

The difference

"Instead of sharing code between two classes by having them inherit from the same class, we do so by having them both own an instance of the same class."

<http://gameprogrammingpatterns.com/component.html>

Extendable behaviour...

SCRIPTS	Fox	Lizard	Mole	Jumping Mole
Stone	Jump	Attack	Burrow	Jump
Star Trophy	Attack	Attack	Attack	Attack
Cactus	Attack	Attack	Attack	Attack
Land Mine	Attack	Attack	Attack	Attack
Big Sone	Attack	Attack	Burrow	Burrow

Get StrikeCurrentTarget() working

- Add fox.cs and lizard.cs for special behaviour.
- Arrange for these scripts to talk to attacker.cs.
- They can also trigger the animator directly.
- Still no need to actually deal the damage yet.
- Hint: OnTriggerEnter2D on fox.cs and lizard.cs.



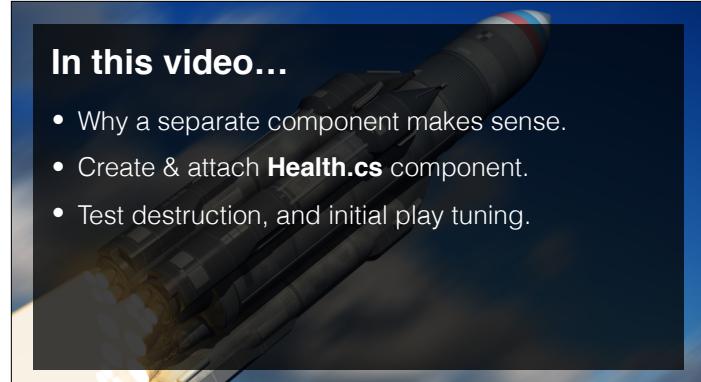
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Using A Health Component



In this video...

- Why a separate component makes sense.
- Create & attach **Health.cs** component.
- Test destruction, and initial play tuning.



Create & attach Health.cs

- Create the script, with **public float health;**
- Attach to all defenders and attackers.
- Wire into Attacker.cs.
- Test in inspector that attackers deal damage.
- Bonus: Destroy defender when health == 0.



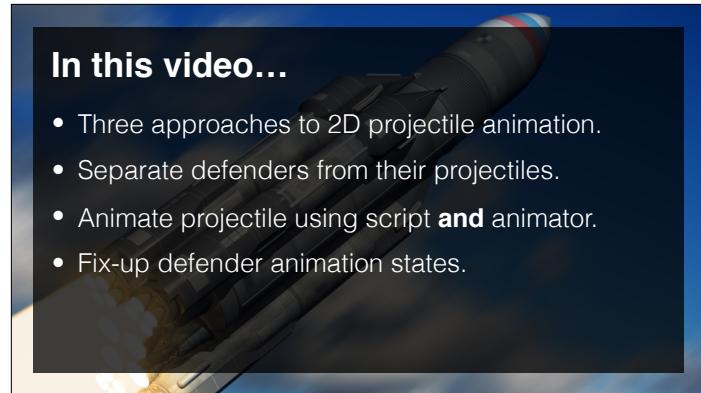
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Animating Defenders & Projectiles



In this video...

- Three approaches to 2D projectile animation.
- Separate defenders from their projectiles.
- Animate projectile using script **and** animator.
- Fix-up defender animation states.



Three different approaches

- Imagine you want a boomerang...
 1. Different animation for each start column.
 2. Create / modify animation from script.
 3. Do all translation from script.
- ... we're going with option 3 for now.

Sort out your defender animations

- They sit in idle state unless **isAttacking** is set.
- When you tick **isAttacking** they fire continuously.
- Don't worry about detection of enemies in lane.
- May need separate attacking and firing states.
- Enjoy!

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Animator Firing Projectiles

In this video...

- Why fire by animation events.
- Create **Shooter.cs** for shooting defenders.
- Create **FireGun()** method in Shooter class.
- Attach a gun gameObject to spawn projectiles.
- Arrange for animator to fire projectiles.

Get firing from animator working

- Create **Shooter.cs** for shooting defenders.
- Create **FireGun()** method in Shooter class.
- Create a gun gameObject to spawn projectiles.
- Arrange for animator to fire projectiles.

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Separate Attack & Fire States

In this video...

- Why our Gnome fires too fast.
- Possible solutions to this type of issue.
- Why we choose to create a “fire” state.
- Fine-tune projectile size & spawn position.

Create fire state

- Create new state called “fire”.
- Transition into it after X loops of attack.
- Use attack motion in fire state for now.
- Move your Fire() event to fire state.
- Test it works.

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Handling Projectile Damage

Code for projectile damage

- Make projectiles damage **Attacker** with **Health**.
- Setup a play space, and start tuning.
- Tweak damage and health levels.
- We'll play tune again later.



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“Tower” Selector Buttons



In this video...

- Setting up buttons for defender (tower) selection.
- Initially they just toggle sprite colour.
- Setup **DefenderSelector.selectedDefender** static
- Test that static is set at start, and on button press.



Get sprite color toggling working

- Start with no defenders selected (all black)
- Clicking toggles to clicked defender.
- All unselected defenders blacked-out.
- Selected defender has different sprite colour.



Set selectedDefender static

- When a defender is selected, set the static.
- Test by logging from another method's **Update()**
- No need to place defenders yet.



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Creating When Needed



In this video...

- The problem with the Projectiles placeholder.
- Useful blog article on best practices*
- A pattern for checking and creating.

<http://www.glenstevens.ca/unity3d-best-practices>

Write code following this pattern...

```
myObject = FindMyObjectInScene();  
  
if (myObject == null)  
{  
    myObject = SpawnMyObject();  
}
```

Tip #10 from here...

<http://devmag.org.za/2012/07/12/50-tips-for-working-with-unity-best-practices>



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Spawn Defenders To Grid



In this video...

- Ensure existing defenders' colliders mask square.
- Calculate the world-units position of a click.
- Calculate the nearest play-space grid centre.
- Spawn the currently selected defender there.

Calculating world-units of click

- `Input.mousePosition` returns pixel coordinates.
- `camera.ScreenToWorldPoint()` translates.
- Orthographic camera (no perspective)
- Distance from camera unimportant.

CalculateWorldPointOfMouseClicked()

- Write the method.
- Test it works!

Vector2 SnapToGrid (Vector2 rawWorldPos)

- Write the method with this signature.
 - Round to nearest whole-number world position.
 - Hint: Consider **Mathf.RoundToInt ()**

11

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Enemy Spawning & Flow



In this video...

- Place enemy spawners.
 - Decide how spawning is controlled
 - A word about the Flow Channel*
 - Write script(s) to control spawning.

<http://indiedevstories.com/2011/08/10/game-theory-applied-the-flow-channel>

Options for controlling spawning

Method	Pros	Cons
Manually planned	Gives most design control. Can give best results.	Can be very time consuming. May miss interesting ideas.
Random / Procedural At design-time	Gives consistent experience. Can help re-playability.	Takes more time than run-time.
Random / Procedural At run-time	Very quick to setup. Can lead to impossible play.	Harder to tune. Less consistent / "unfair".
Adaptive	Keeps the player in the flow.	Harder to implement.

Write Spawn() method

- void Spawn (GameObject myGameObject).
- Remember to parent to this spawner.
- Test it works.

Write isTimeToSpawn()

- bool isTimeToSpawn (GameObject attacker).
- Return true to spawn this frame.
- Return false if not.
- Bonus: log warning based on "frame-rate cap".

Random.value probability distribution

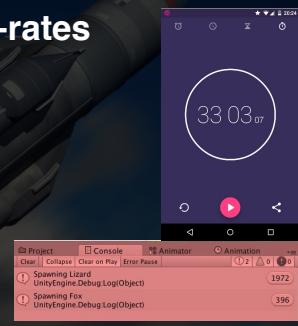
- Equally likely to get any value.
- Chance Random.value < 0.3 is 30%.
- 0.3 is the threshold.
- Gives control over frequency of triggers.



Check your spawn-rates

- Total seconds = 1983
- Lizard rate = 1.01 (3sf)
- Fox rate = 5.01 (3st)

Pretty good, within 1%



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Shooters Detect Attackers



In this video...

- Find a way of defenders detecting attackers.
- Only shoot at attackers if ahead in lane.
- Modify **Shooter.cs** to make this work.
- Test that defender enter and leave “attack” state.

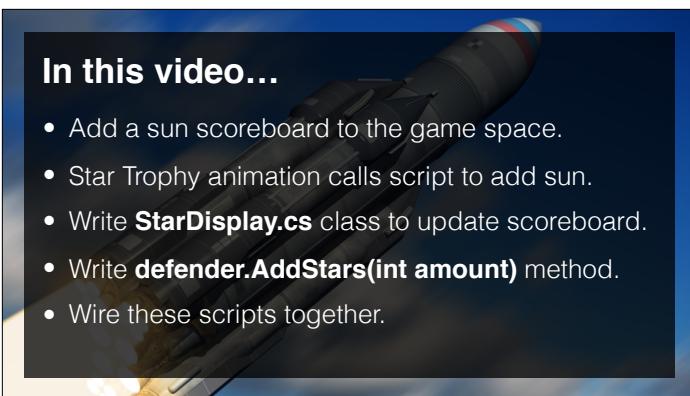
Write code to find lane spawner

- **void setMyLaneSpawner ()**
- Looks through all the **Spawners**
- Finds the with your y-position
- Sets the **private Spawner myLaneSpawner**
- Returns an error if you can't

Write attacker detection code

- Signature: **bool isAttackerInLane ()**
- Check they enter attack state.
- Check they leave when no enemies.

Using Stars As Currency



In this video...

- Add a sun scoreboard to the game space.
- Star Trophy animation calls script to add sun.
- Write **StarDisplay.cs** class to update scoreboard.
- Write **defender.AddStars(int amount)** method.
- Wire these scripts together.

Write StarDisplay.cs Class

- Require a UnityEngine.UI Text component.
- Find this text component on **Start()**.
- Write **AddStars (int amount)** method.
- Write **UseStars (int amount)** method.
- Update the Text component when above called.

Spending Star Currency

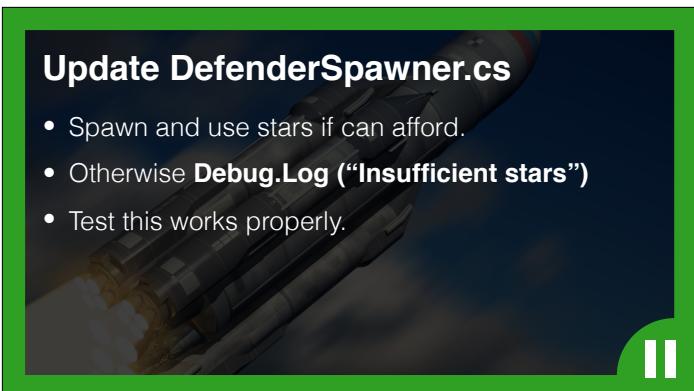


In this video...

- Assign a star cost to every defender.
- Prevent placement until you can afford it.
- Spend stars when defenders are placed.
- Use an **enumeration** to pass meaning.
- Rough play tuning to create a challenge.

Update DefenderSpawner.cs

- Spawn and use stars if can afford.
- Otherwise **Debug.Log** ("Insufficient stars")
- Test this works properly.



Handle Lose Condition

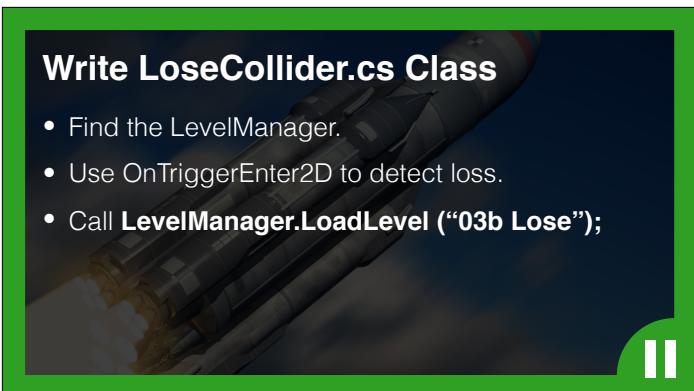


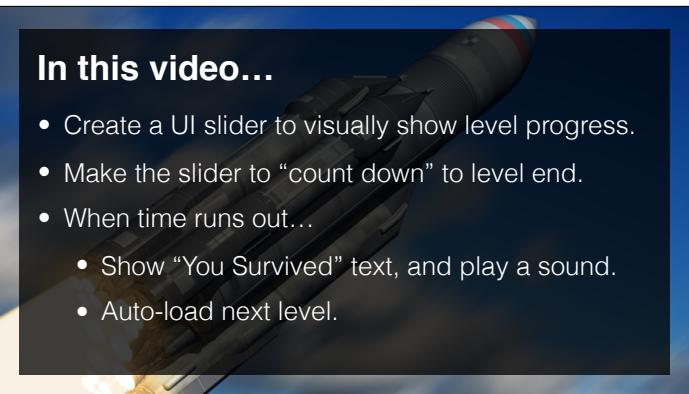
In this video...

- Remove lose test button.
- Create a lose collider.
- Setup lose triggering & transition.
- Improve lose screen.

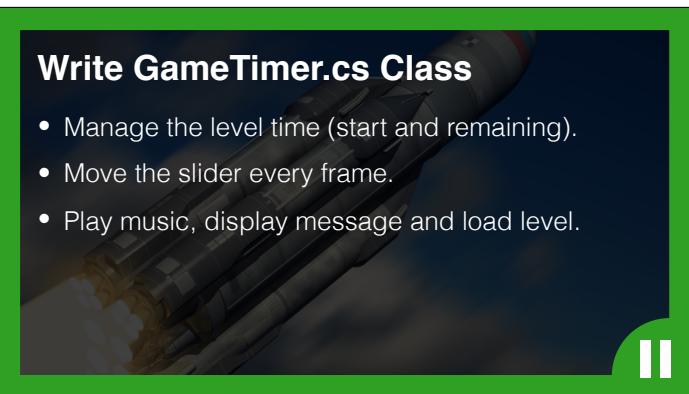
Write LoseCollider.cs Class

- Find the LevelManager.
- Use OnTriggerEnter2D to detect loss.
- Call **LevelManager.LoadLevel ("03b Lose");**





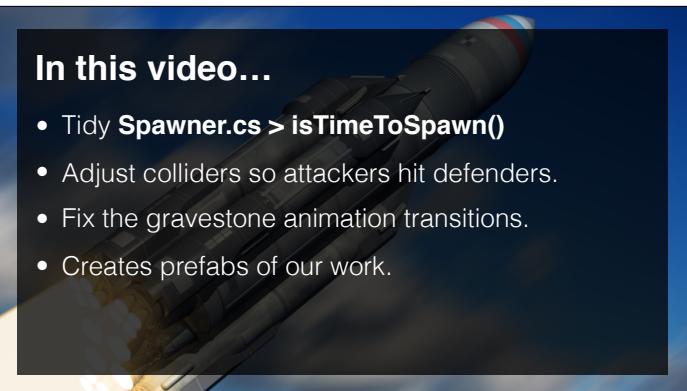
- Create a UI slider to visually show level progress.
- Make the slider to “count down” to level end.
- When time runs out...
 - Show “You Survived” text, and play a sound.
 - Auto-load next level.



- Manage the level time (start and remaining).
- Move the slider every frame.
- Play music, display message and load level.

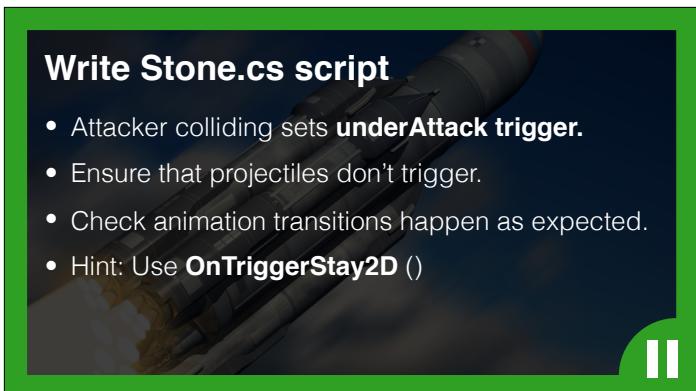


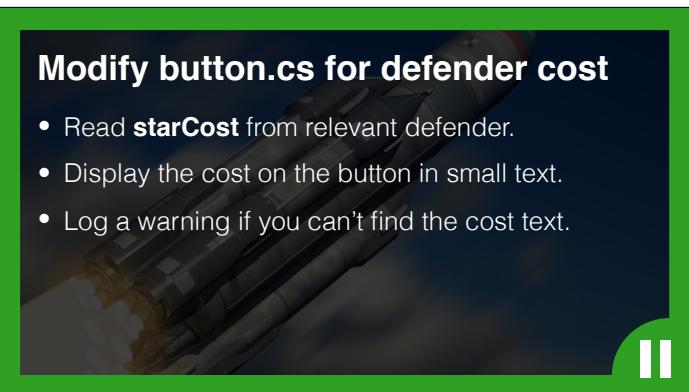
Review & Tidy Up



Write Stone.cs script

- Attacker colliding sets **underAttack** trigger.
- Ensure that projectiles don't trigger.
- Check animation transitions happen as expected.
- Hint: Use **OnTriggerStay2D ()**





Play tune your game

- Choose parameters that create challenge.
- Make each level introduce a new game mechanic.
- Also make each level a little harder.



?

End of Section QUIZ

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ACT IV: Mobile Deployment



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Installing Android Studio



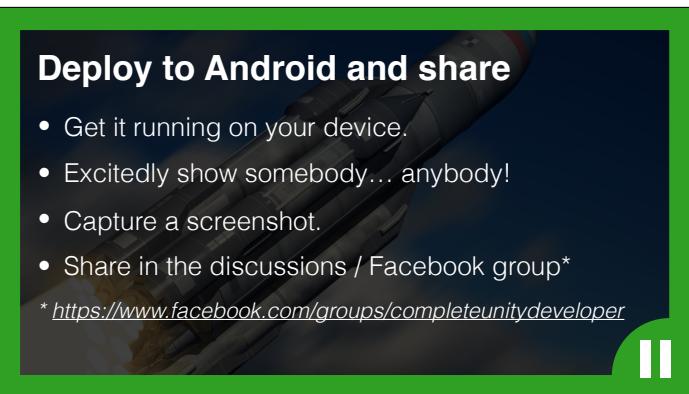
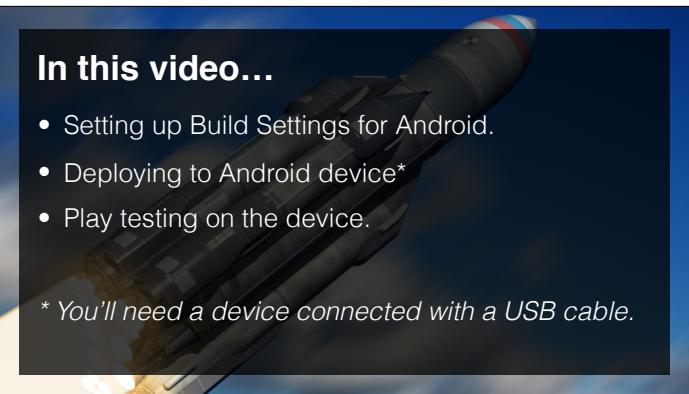
In this video...

- Downloading & installing Android Studio.
- How to solve common issues.
- Check Android Studio loads.

Get Android Studio running

- Download from <http://developer.android.com/sdk>
- Be ready to install / un-install Java.
- Search for the exact error message.
- Persist, Google is your friend.
- It'll be worth it in the end!

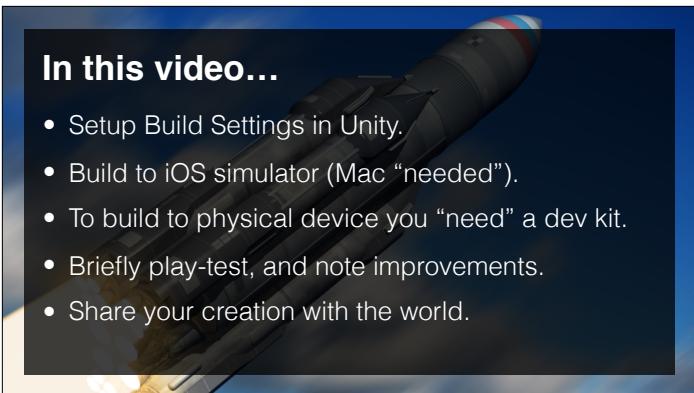






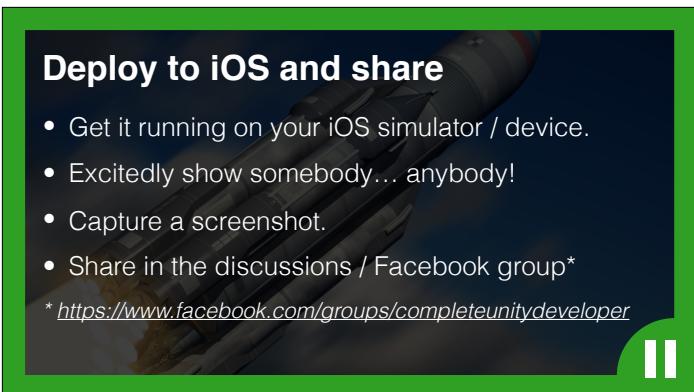
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Build To iOS Simulator



In this video...

- Setup Build Settings in Unity.
- Build to iOS simulator (Mac “needed”).
- To build to physical device you “need” a dev kit.
- Briefly play-test, and note improvements.
- Share your creation with the world.

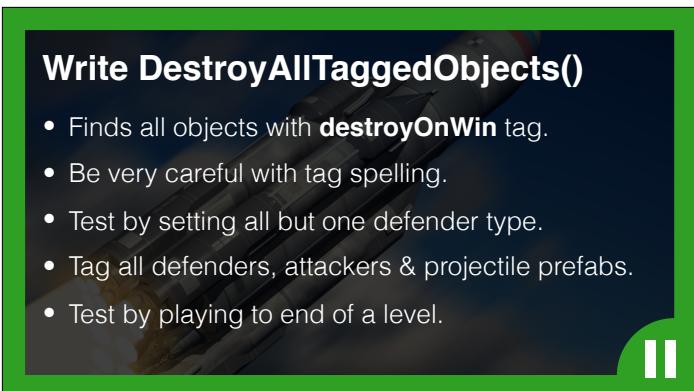
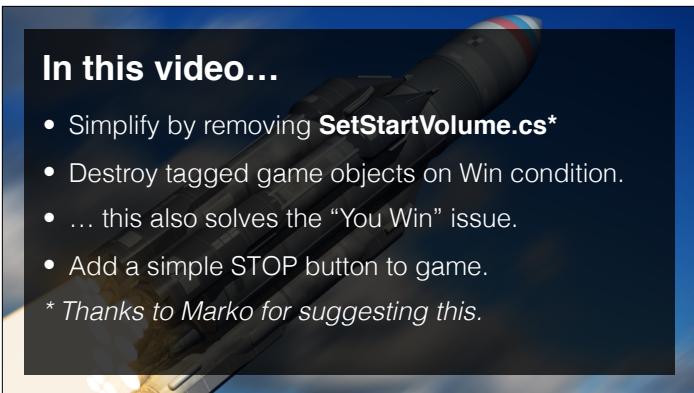


Deploy to iOS and share

- Get it running on your iOS simulator / device.
- Excitedly show somebody... anybody!
- Capture a screenshot.
- Share in the discussions / Facebook group*

* <https://www.facebook.com/groups/completeunitydeveloper>





Add a simple STOP button

- Somewhere along the bottom maybe.
- Take them back to the Start scene.
- Extra credit: Pop-up allowing continue.



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Making Unity 5 Compatible



In this video...

- Testing after upgrading to Unity 5.
- Fixing Quit button opacity / depth.
- Try new Rigidbody constraints

