

Character/Player design

simp. by the desire to reduce clutter and use simple geometric shapes (like 'thamesvalley')

Player consists of - body + ball, maybe credits

○ ← which way is it facing? Add
tail to identify direction

Maybe too simple? Could

hollow out centers/make it look like

the mode of new roads.

maybe have glowing segments
in the center to indicate health

Black out / remove segment
on hit, possible injury to femur
indicated by blinking

Guard? OD Actions player can take: - move, rotate, swing, but Guard (loss points but no damage)

Possible customising shapes/cut costumes

Sprites or models? 3D Model should be quick to make + interesting perspective effect. Sprites would be equally fun to make but may take longer to make look right.

Final design idea

bottom bed, Swings and Guards

→ Main body

do not hit or 

all shapes include

Inner segment

indirect health

4 more more

Colour options:

x black + blue don't stand out

✓ blue cold doesn't work if its dark

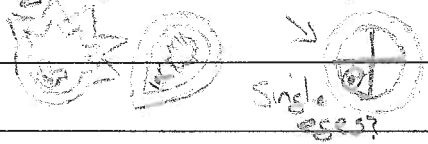
red + green works

Yellow + Purple/Magenta works

Glow effect may make dark colours stand out

Enemy design

turret units: stationary, but still needs to rotate



running unit: moves

while shooting, can't reflect

reflecting unit: has a Reflector like the player

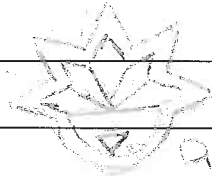
Boss unit: unique enemies with a lot of health

enemies have a consistent colour scheme to distinguish from player. Mini Splatoon?

have enemies be a consistent colour and player becomes another colour for the level.

Allow player to use enemy models in a room

health bar



Enchanted Ideas

enemies are similar with spikes

Number of spikes identifies the

type of enemy. The direction

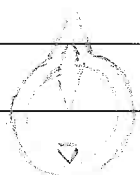
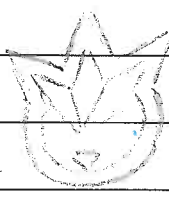
the enemy faces is identified

by the internal triangle and is as

orange. Health is measured as

X coloured segments on the

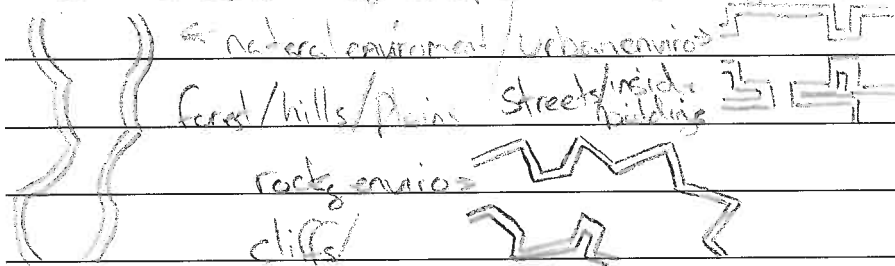
back of the enemy.



Environment design

Keeping to the idea of simple geometric shapes, not much detail. Look more like the character

Level shape may depend on stage, e.g.



Could have sections for enemies/player to hide

behind. Maybe small detail outside

the walls, e.g. environment details or

hints. One large environment may cover the

use collision box to add/remove areas of the level

(similar to Unreal endless runner tutorial 1/02/)

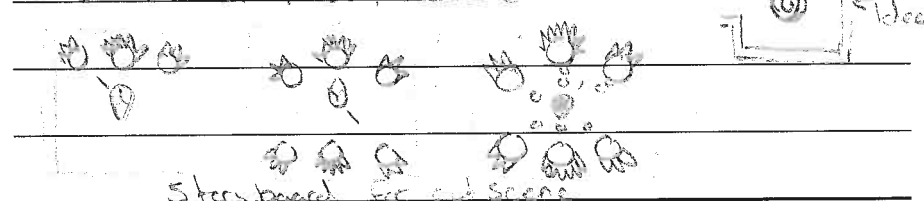
one issue with that is enemies may respawn

if back tracking. Either keep or not kill count,

prevent enemy spawn if kill count is X.

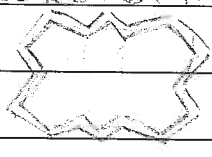
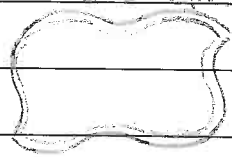
End of level could either be a portal/goal

or an animated cut scene.



Arena Design

Arenas for the vs matches. Similar to a tennis court, but the net is a wide area that the players can't enter. The ball bounces off at the walls. Maybe different arena shapes based on the levels.



They could be unlocked by playing that level.

Players need to be able to choose their level before starting randomly themselves.

Hazards could be introduced in some arenas to make things more interesting. These hazards would affect the ball, not the player directly. ie. Portal: the changes ball's position, not velocity, walls that goes through from the side.

⑥

Hazards with arenas can't be important though, key is getting

two players + an AI player match

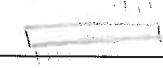
⑥

to work

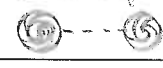
Hazard design

environment based obstacles that the player may not be able to just dodge to get past.

Based on gameplay, most will affect the trajectory of the ball instead of harming the player directly.



Moving/rotating wall - limits the players movement + may get in the way of the ball. Forces players to predict possible trajectories.



Portals - changes ball's position, not velocity, could throw players into a different area. could be used by player for trick shots.

Lightning electrifying floor: damages the player directly, triggers after X seconds of standing still. Primary use is to force players to move, moving or restrict player movement without walls to stop the ball.

Molasses: stops/reduces the speed of the ball. like portals can assist or interfere with the player as would provide better control of the ball, but easier to predict and dodge.

The Ball

A key part of this game that I should have talked about sooner.

Three style ideas:



ball as particles, spherical object, regular object

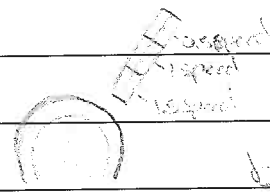
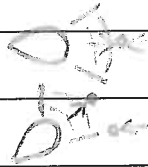
Style won't affect the physics of the ball

Interactions with player - direction the player is

moving affects the post-detection

speed of the ball after hit can be

dependent on where on the ball it hits



Interactions with environment:

bounces off of wall at mirror

angle. Contact with the player or enemy



unit removes one unit of health.

enemies units spawn a ball in front of themselves

to fire at the player.

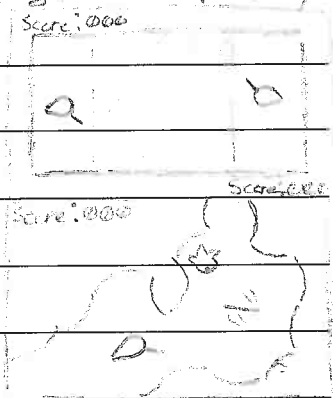
In arena mode, roulette for who the ball

spawns in front of. Spawns in a consistent area

on that side of the arena.

Gameplay UI Design

Health is displayed as coloured units on the character. Abilree score displayed in top left / bottom right?



As game is not primarily

score based + all important

info is already provided is

a ui needed?

Maybe in additional game

mode? But current focus is vs mode and

Adventure mode for completion first.

Game Engine choice

Self made one :-

- + only has functions I need
- most likely don't have time to make one

Unreal 4 :-

- + prior experience working in unreal
- + blueprints + coding mode are interchangeable
- blueprint mode may be too simple

Unity :-

- + More code based so looks more technical
- No prior experience using it.

Conclusion :- I would prefer to use

Unreal as I as my prior experience could make it easier to use. My initial plan is to use blueprint mode to get bulks of the game made, and fine tune/add details using the code mode.

Controls ideas

Action	Keyboard	Xbox	PS4	Switch
Move player	^W A S D			
rotate player	[↑] < V >			
Swing bat	Space bar	RT, RR, RT, RS, RT, RE		
Guard	Ctrl	LT, LB, LT, LB, LT, LB		
NEW MENU	^W A S D [↑] < V >			
Select/confirm	Space bar/enter	Y/B	A/O	X/A
back/deselected	backspace/esc	X/A	□/X	Y/B

Combined Ideas?

5+6+7 - Simple player controls with 2/3
gameplay modes based on it

3+4 - encourage planning for set levels
Magics & Ethers?

1+8 or 2+8 - begining complication on top of
complication ¹⁺⁰

7+9 - Sooooo... Story world dig?

4+10 - players make cards? OR program
strategy for their deck? (continued)

Preferred Idea

5+6+7

A top down view game using simple geometric
shapes and gameplay based on "Dead Mens Vally"

Dead Mens Vally consists of two characters parrying/reflecting
a projectile between both other until one misses/fails/
dies, at which point the projectile impacts then causing damage.

This style of gameplay/combat was devised and inspired
by the Legend of Zelda franchise

Two gameplay modes can be implemented. The first
is a versus match against either a computer or a user controlled
character. The objective is to reduce the opponents health
to 0, though other objective magics included. This is primarily
local vs (same screen) however online will be considered.
The second mode would consist of exploring level/environments
and defeating simple enemies and (possible) bosses. This
mode would have a story that can either be told through
narration (similar to the game 'Thomas was alone') or through clues
in the environment. Players could be rewarded for progressing
the story with customization for their player controlled character,
extra difficulty options or additional environments for the
Versus matches.