Assignment 5: 20 Game Engine Project. GAME-18803-01 Ethan Muller

Came plan: I want to create pinball in Godot, seems like a simple task publif consists of the player using two paddels to keep the titular "pioballa" ahme the padd bs. These objects cause the pinball to bounce away from their simply act as obstacles, not bounce away from them. The player has soveral balls in stack. The game end when all balls are gone.

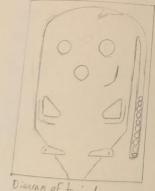


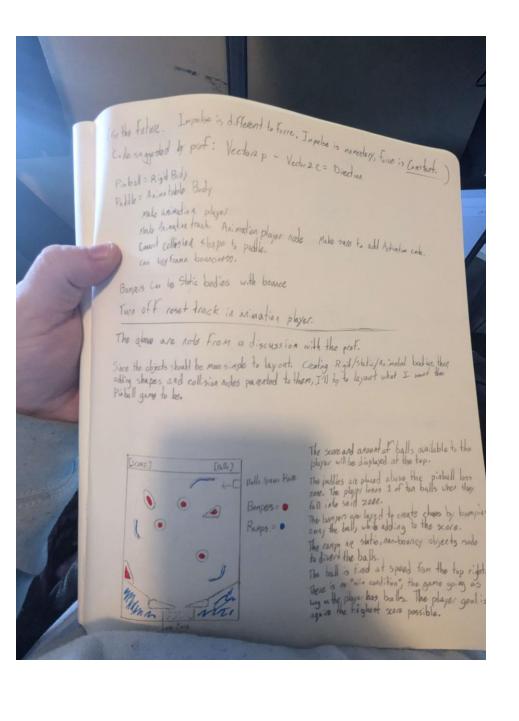
Diagram of typical games

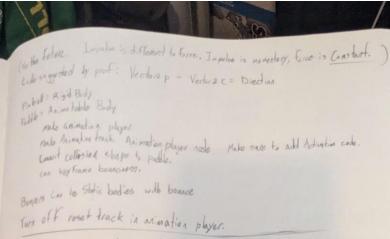
The main comparents to warry about are thus, the balls the paddes and the bumpers. After Hose components are completed I would focus on the layout, the score system, then to appearance.

The main components will be pretable, of course. That was solving up the layout went be Hell.

Pin balls:

The pinballs shall be simple enough. I'll counte a rigid body 2D node, with an ellipse stape and collision nock connected. Counting notified balls is more difficult. I'll have to either spawn the balls in a head of time or create code that allows the balls is more difficult. Ill mape to aimer species like a botter solution, though I'll also have to code a counter, in order to prevent the player from spawning more than the maximum arount of balls. I need to practice more with cooling in Good, as I'm not fully familiar with its terminology.





The above are note from a discussion with the prot.

Size the objects should be more single to layout. Creating Right/static/An incorded bodies, then other shapes and collision nodes parented to then, I'll by to layout what I want the

Puball game to be.



Balls Spasses Hore

Burpes = •

Ramps = .

The scar and anoust of balls ovailable to the player will be displayed at the top.

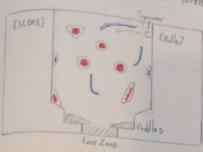
The publics are placed above the piaball loss zone. The player loss I of ten balls when they fall into said zone.

The balls are layed to create chaos by bumping any the balls, while adding to the scare.

The range are static, non-bouncy objects made to diver the balls.

The ball is fired at speed from the top right there is no "win condition", the game going as way as the player has balls. The player goal is agains the highest scare possible.

The carries is difficult to mess with so I'm changing the lyout.



The ramps are difficult to make at the mercet. I can't Figure out how to shape them. I m going to delay then and to to set up the ball spanner mechanic In going to attatch a script to the ball. I'll make it so that when I want the ball to spann it will be moving to the left at speed. I should be able to use an impube command for that. Now I just need to figure out how to spann there at the location I want.

Just had a good idea for the range. Using several rectangles to make a large perial and these scaling them down I can have range.

I'm strongling with a big I found concerning the wedge shaped bumpers. The lampers use three rectangular collisions boxes, but the ball is getting glitched out the corners. The added circle collidors to the corners, they somewhat lossen the glitchiness. therever, there's still problems. I'll try to more the rectangle colliders thether into the wedge, int in case the ball is cauging as a small edge.

It seems I've leaded one bug for another. The ball is stuck, I'm going to change the edge collision circles to rectangles.

Nogo. That's worker.

Lets try one-way collision.

changing the scale seems to have fixed the issue. Strange.

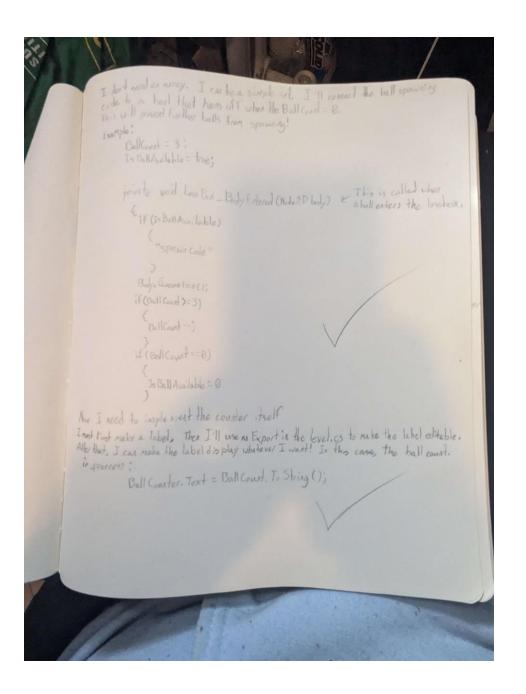
I've decided that the detection of the ball is more important than spewing the balls presently.
I've decided that the detection of the ball is more important than spewing the balls presently.
I've decided that the detection of the ball is more important than spewing the balls presently.
I've decided that the detection of the ball is more important than spewing the balls presently.
I've decided that the detection of the ball is more important than spewing the balls presently.
I've decided that the detection of the ball is more important than spewing the balls presently.

I've decided that the detection of the ball is more important than spewing the balls presently. If help from the processor I was finally able to understand bolls how to rester detection bores and spann dieds allow cotains sections of a scripts under I was able to practice them. I better understand to the allow cotains sections of a scripts under I was able to practice them. I better understand topic allow cotains sections of a scripts under to be accessed and connected to nodes in the Condition when I was able to pear to a scripts under the detection box, which I lovingly refer to as "ye Loss Box In thicking that if I place the initial spanning code into the delection boxes section of the had code it should spann a new ball instantly. The code would look like this: printe void Lors Box_ Body Entered (Note 20 body) Rigid Roby 2D New Ball = Ball Scene. Instantiate < Rigid Body 2D> ();

New Ball Postion = Marker Postions;

Ball Collection, Add Child (New Ball);

New Ball , Apply Control Emphase (Rob); — Fire is a Necho 2D that is exported. Lody, Queux Free (); My not job is to create a counter for the balls. This will keep the player form infinitely playing I should be able to create an int wray between 0 and 2. Shorting at 2 the balls will decrease. Who wall talk is to the loss Box and the int is 0; the game with the over. int Ball Count = Accor int [37; private void Loss Box Budy Eden & (Note 2D Budy) if (Ball Count >= 0) Ball Court +- 1; # (Call Count = 0) E. Display garage



I need a way to lell the player to restart when they can out of Balls I can ever add a restart buller East I'll have a religion Over label, that only hastext when the player runs out of balls.

Example: Game Over. Text = "Game Over!"] It soms the change carnot occur within the section of code I want. I'll move it to process. X That still does not work. I may have to give up the game ous As for a score counter, I don't think I have enough time to implement two scripts with code that detects collision. I would have had then detect when they were hit, then update a counter in the level code by adding about 100 points,