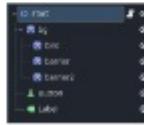


Flappy Bird

WEEK 1



WEEK 2



In play(), I wrote the core game loop logic.
The key parts include:
Control the movement of the obstacle barrier positions $x = 80 * \text{delta}$
Determine the boundary and generate a new obstacle: `spawner_barrier()`
Score system update: `score += 1`
By constantly adjusting the movement speed and refresh interval, I made the game more challenging.

Learning goal: I understood the meaning of delta - it enables the game to execute consistently across different frame rates.

Important artifacts:
The positions of the obstacles are fixed and remain the same every time the game is run.

Solution: Add the "randomize()" function in the "play():" section and use "randi(1,spawner,100)" to generate random spacing.

This experience made me realize the significance of randomness in game experience design.

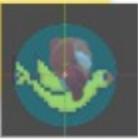
WEEK 3



The control logic for the birds is the most challenging part of the entire project.
I achieved the falling and rising movement by setting the gravity parameter:
`gravity = 0`
`0 <= 1`
`if input.action_pressed("up_space"):`
`0 = -9`

This process enabled me to learn the basic concept of acceleration control and also allowed me to appreciate the significance of "fine adjustment".

Debugging results:
When the value of q is too high, the bird falls too fast and the player is almost unable to control it.
When the q value is too small and the game pace is too slow, through experiments with different values, I gradually found the balance.
This adds the texture and the game, which makes the feedback different experiences when it ascends and descends, enhancing the visual feedback effect of the game.



WEEK 4



The implementation of the end game is relatively simple and is triggered by a button:
`get(button_change_score_to_100percent).play(0.0)`

Initially, I attempted to detect death in play() and directly switch screens, but this did not logical correctness.
Later, I moved the death detection to play() for management, and the problem was solved.

This made me understand the importance of modular programming - the main game should uniformly manage the game state.



WEEK 5