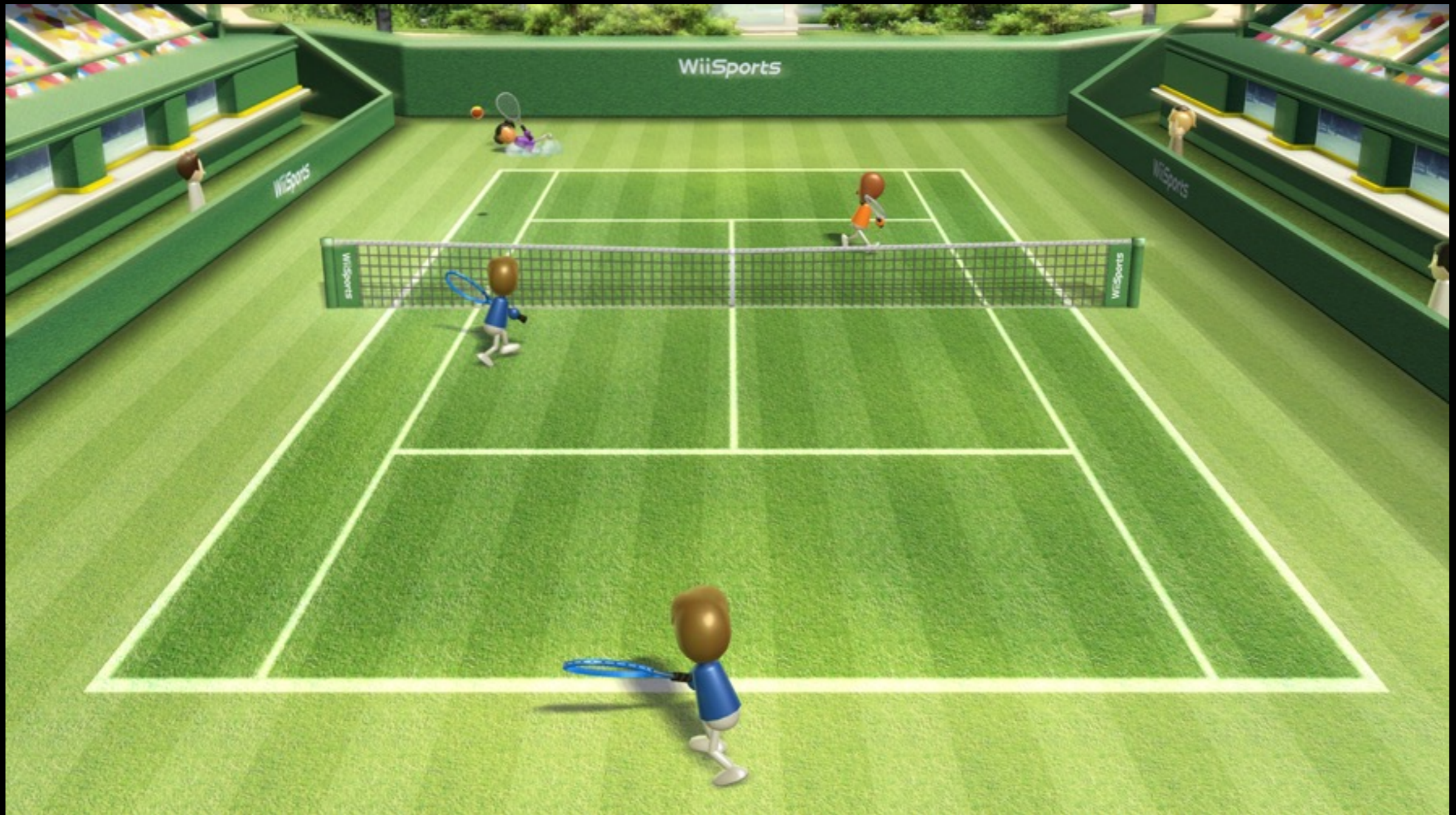


Gaming the System

I want to make a game...

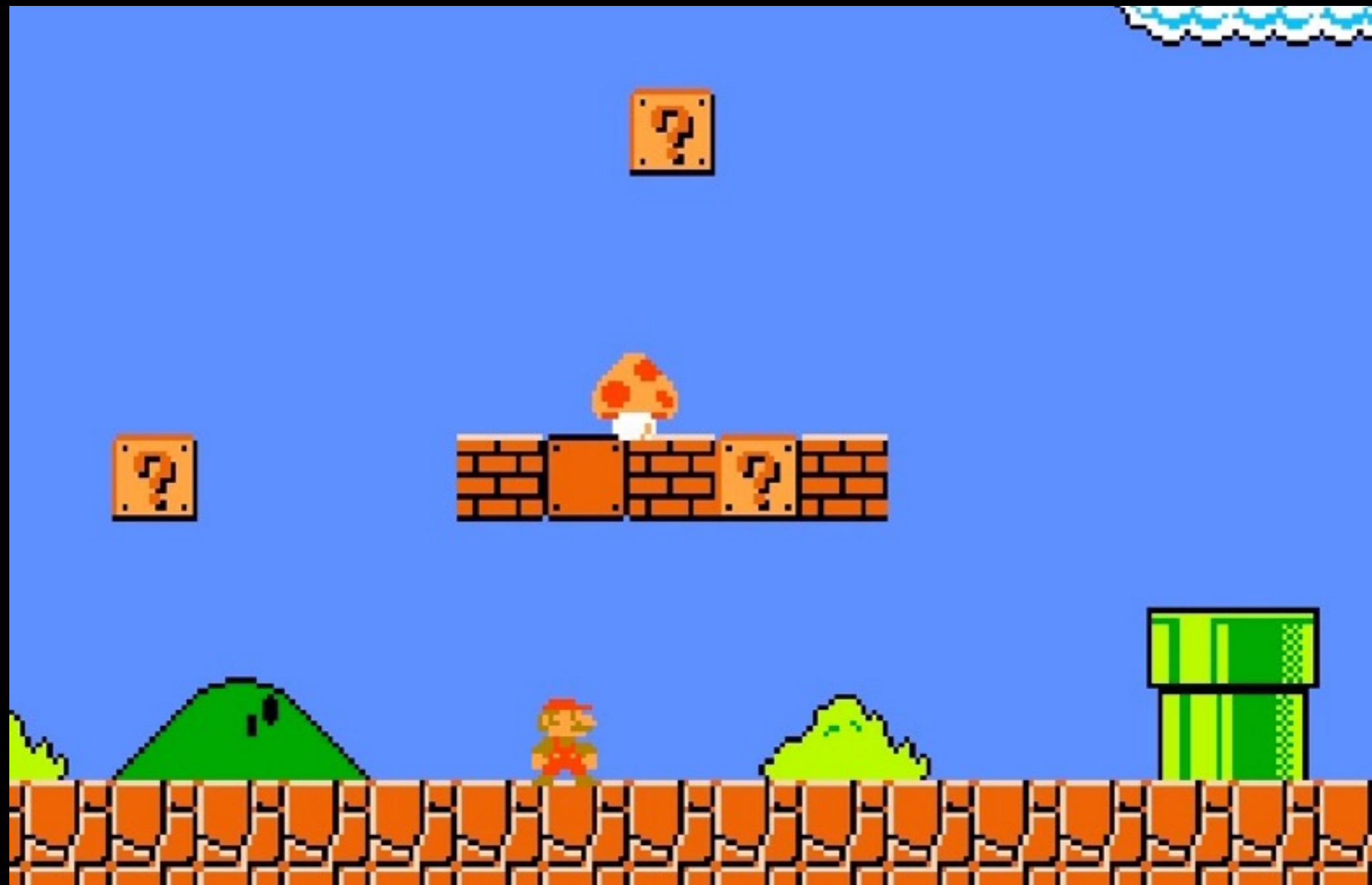
Is this a game?



What about this?



This?



?



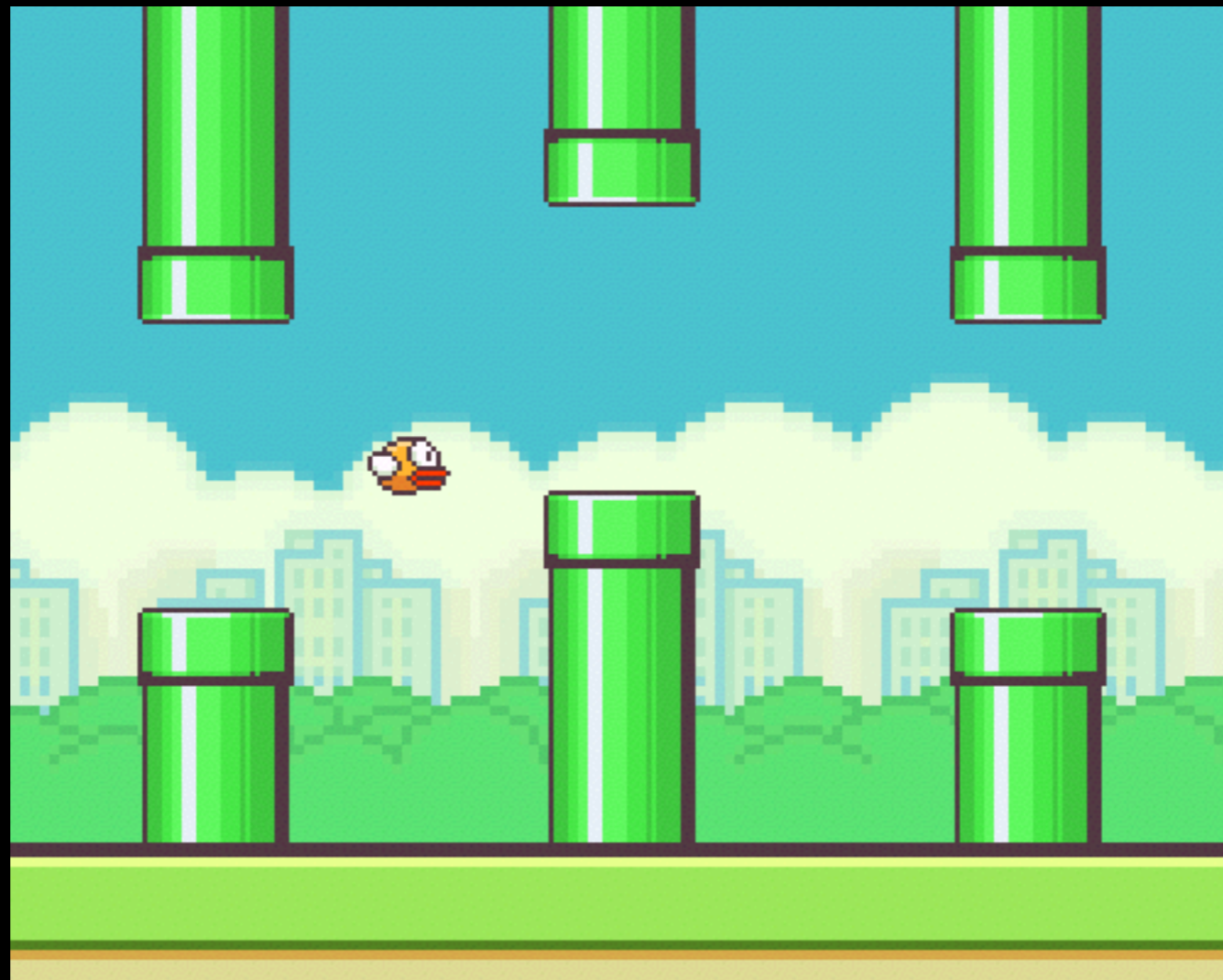
What even is this?



Tag?



...



“When you strip away the genre differences and the technological complexities, all games share four defining traits: a goal, rules, a feedback system, and voluntary participation.”

-Jane McGonigal

```
while (true) {  
    getInput();  
    update();  
    render();  
}
```

```
while (true) {  
    getInput();  
    update();  
    render();  
}
```

Input Pseudocode

```
void getInput() {  
    aDown = 0;  
    bDown = 0;  
    ...  
    if A button down  
        aDown = 1;  
    if B button down  
        bDown = 1;  
    ...  
}
```

```
while (true) {  
    getInput();  
    update();  
    render();  
}
```

Update Pseudocode

```
#define SPEED 5
```

```
void getInput() {  
    //update player based on input  
    player.velocity += aDown * SPEED  
    //update objects based on physics  
    //physics formulas to update player x,y  
    //check for collisions  
}
```

```
while (true) {  
    getInput();  
    update();  
    render();  
}
```

```
while (true) {  
    getInput();  
    update();  
    render();  
}
```


15	14	13	12
11	10	9	8
7	6	5	4
3	1	2	_

Game Engines

Choo choo

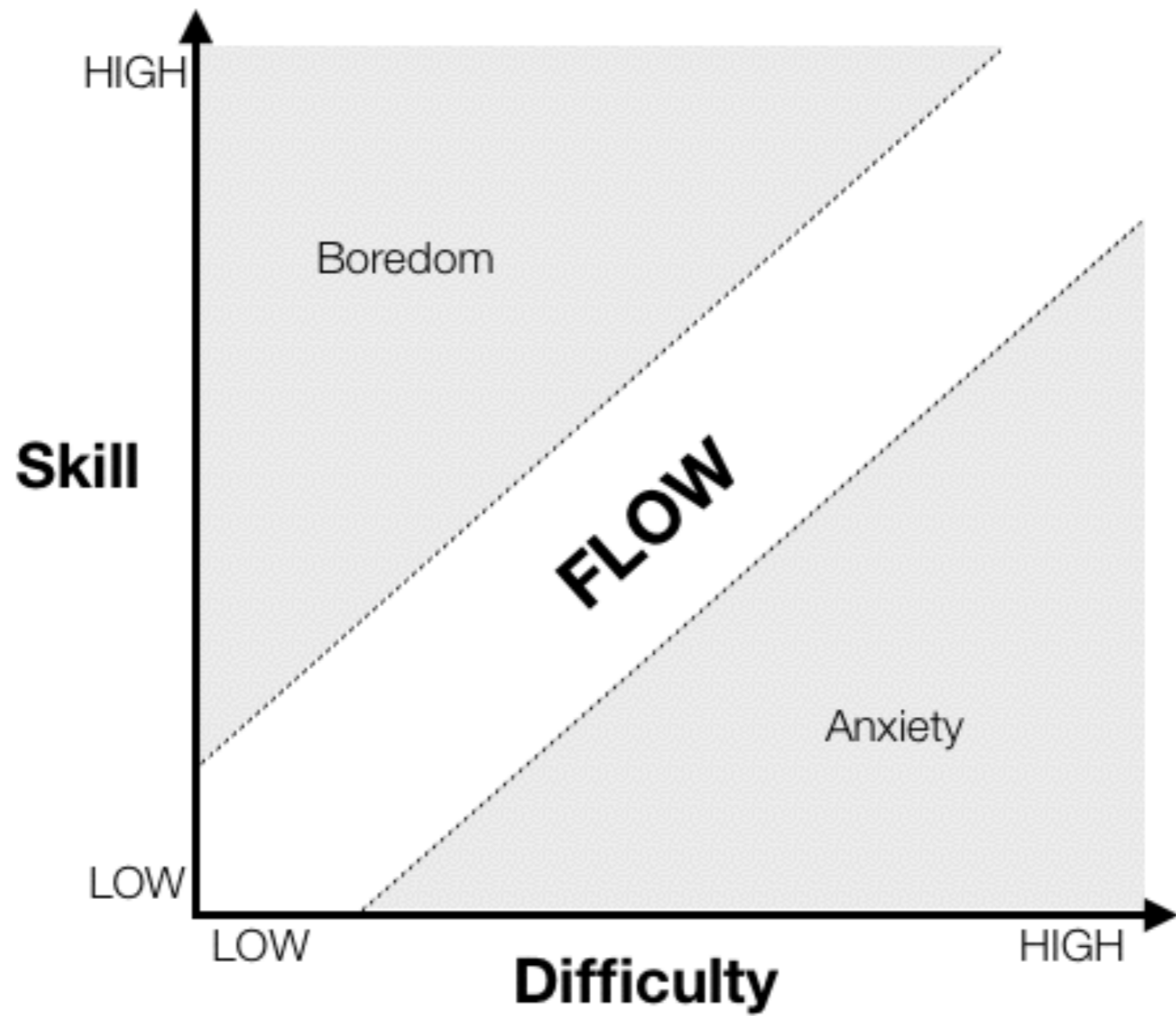
GAME ON

Unity and Final Projects

Pros and Cons

How do I make it fun?

A brief game design primer



Resources!

- Tomorrow's Lecture! AI design
- Unity tutorials
- Handmade Hero youtube series
- *The Art of Game Design*