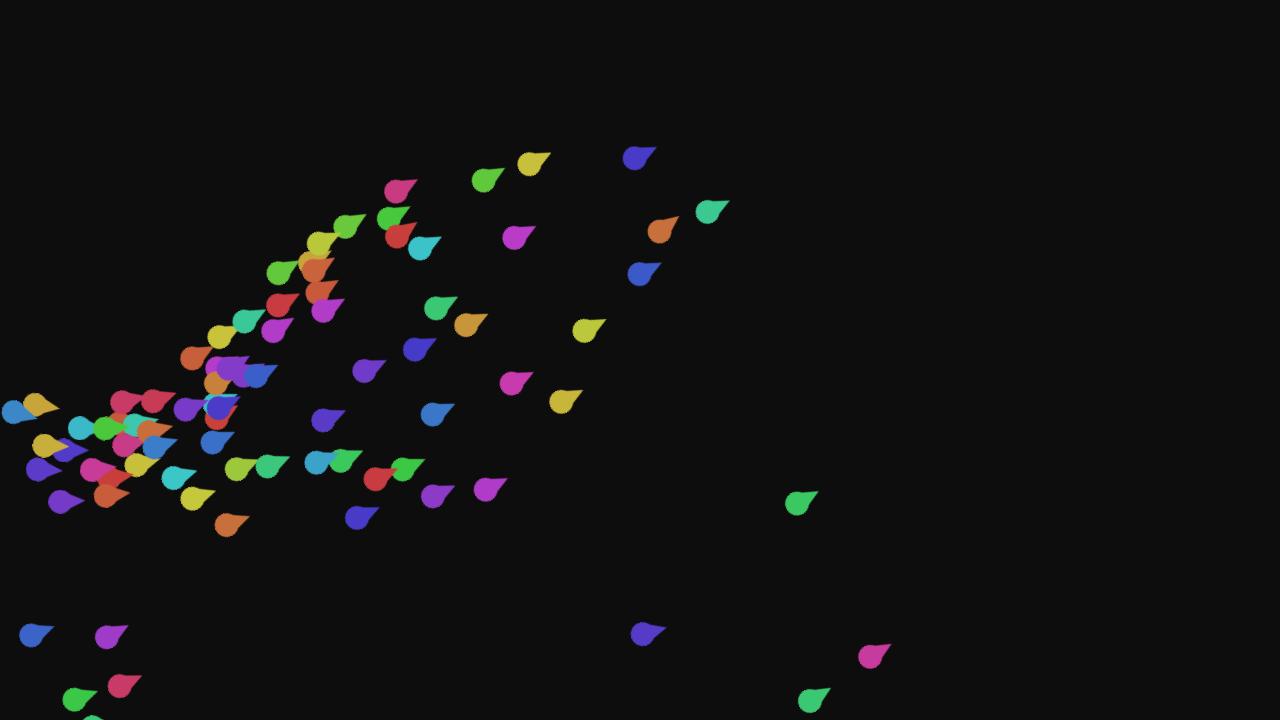
Generic Blank Game Design Document (GDD)

Austin Brooks - BoidMania



***A boid frenzy masterpiece – Austin Brooks***

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# 1 Game Overview

Title: BoidMania

Platform: PC Standalone + iOS & Android, VR, XBox, Switch,

Genre: Simulator

Rating: (10+) ESRB

Target: Casual gamer (aging from 12 - 30)

Instructional games

Release date: May, 2020

Publisher: Professor Price Enterprises

Description: BoidMania is an instructional game that teaches students about boids and how they are programmed and function. Within this game, I have created two modes that is lazy flight mode and shape mode. Lazy flight mode is done by changing the mode to ‘0’ within the inspector. Shape mode follows a circular pattern and is done by changing the mode to ‘1’. You can also change other values that affect how the boids perform.

# 2 High Concept

The main concept of this, is to get the students more familiar with programming in C# for video game development. It also helps students become more familiar with Git, aswell as other fundamental game design entities.

# 3 Unique Selling Points

This assignment I struggled with a bit, but I know for a fact I have improved my C# skill. I have become much more familiar with git. Also the \_mp piece of this assignment I now am familiar with networked games.

# 4 Platform Minimum Requirements

* Computer with Windows 7 or better.
* Internet
* Specific hardware specifications.
* Specific software
* Correct setup

5 Competitors / Similar Titles

* Boidsmania has a large amount of competitors across the nation.
* As of May 2020, similar titles would include (‘boidanza’, ‘boid bounce’, and ‘boid oh boid’)

# 6 Synopsis

* Within the inspector, change the modes from 0 and 1 within the GameObject in order to replicate the lazy flight and the shape flight respectively.
* Change the
* You can also change the value of the radius and number which would change the functionality and quantity of the boids.

7 Game Objectives

* The objective of this project is defining boids and how they may be used within games.
* We have learned the properties of boids and their use.

# 8 Game Rules

* Do not use negative numbers.
* Do not use inputs that may break your computer. (IE a large number of boids)
* Update along the way as you go.

9 Game Structure

* The game has one scene. – samplescene
* The game contains 7 scripts where each provides some functionality for the boids.
* The is a directional light which provides very little use.
* Your cube object is a prefab which contains the scripts for the boids.
* You GameObject serves as a spawner object which spawns a bunch of these cubes which behave like boids.

# 10 Game Play

- Input specific settings within the inspector for the Cube prefab and the GameObject object. For slowers systems limit your “number” setting of the “GameObject” to 30 as this generates the biggest system cost.

- Once all settings have been input correctly, press the play button in the Unity Editor to see the boids perform.

- If you like this setting, press ‘build settings’ in the Unity Editor and build a build of your finished game.

## 10.1 Game Controls

## 10.2 Game Camera

### 10.2.1 HUD

### 10.2.2 Maps

# 11 Players

## 11.1 Characters

## 11.2 Metrics

## 11.3 States

## 11.4 Weapons

# 12 Player Line-up

# 13 NPC

## 13.1 Enemies

### 13.1.1 Enemy States

### 13.1.2 Enemy Spawn Points

## 13.2 Allies / Companions

### 13.2.1 Ally States

### 13.2.2 Ally Spawn Points

# 14 Art

## 14.1 Setting

## 14.2 Level Design

## 14.3 Audio

# 15 Procedurally Generated Content

## 15.1 Environment

## 15.2 Levels

## 15.3 Artificial Intelligence NPC

## 15.4 Visual Arts

## 15.5 Audio

## 15.6 Minimum Viable Product (MPV)

# 16 Wish List