1. Revisión y refactorización de código

Bird.cs Monobehaviour OLD

- Cambio de nombre de funciones (español -> inglés)
- Se movieron las instrucciones por legibilidad
- Cambio de números mágicos por declarados o configurados de ScriptableObject: Bird

Bird.cs Monobehaviour NEW

```
//Added Bird Configuration
[Header("Bird Configuration Scriptable Object")]
public BirdScriptableObject birdSO;

//Changed function Name

!referencia
public void ShootBird()
{
    //Moved down instructions
    GetComponent<AudioSource>().Play();
    GetComponent<TrailRenderer>().enabled = true;
    GetComponent<Rigidbody2D>().isKinematic = false;
    GetComponent<CircleCollider2D>().radius = Constants.BirdColliderRadiusNormal;
    State = BirdState.Thrown;
}
```

```
1 referencia
IEnumerator DestroyAfter(float seconds)
{
    //Moved down Instructions
    yield return new WaitForSeconds(seconds);
    Destroy(gameObject);
}

© Mensaje de Unity | O referencias
void FixedUpdate()
{
    if (State == BirdState.Thrown && GetComponent<Rigidb
        StartCoroutine(DestroyAfter(_destructionTime));
}</pre>
```

Bricks.cs Monobehaviour OLD

```
public class Brick : MonoBehaviour
{
    void OnCollisionEnter2D(Collision2D col)
    {
        if (col.gameObject.GetComponent<Rigidbody2D>() == null) return;
        float damage = col.gameObject.GetComponent<Rigidbody2D>().velocity.magnitude * 10;
        if (damage >= 10)
            GetComponent<AudioSource>().Play();
        Health -= damage;
        if (Health <= 0) Destroy(this.gameObject);
    }
    public float Health = 70f;
}</pre>
```

- Creación de archivo configurable StructureScriptableObject
- Cambio de números mágicos por declarados o configurados de ScriptableObject: StructureScriptableObject
- Separación de chequeo de puntos de vida de la estructura al llamarse CollisionEnter
- Reemplazo de == por CompareTag

```
void OnCollisionEnter2D(Collision2D col)

{
    GameObject collisioner = col.gameObject;
    if (collisioner.GetComponent<Rigidbody2D>() == null) return;
    damage = collisioner.GetComponent<Rigidbody2D>().velocity.magnitude * 10;
    receivedDamage = damage;
    if (collisioner.CompareTag("Explotion"))
    {
        receivedDamage = explotionDamage;
    }
    CheckHealth(receivedDamage);
}

// I referencia
// private void CheckHealth(float damage)

{
    if (damage >= 10)
        GetComponent<AudioSource>().Play();
    Health -= damage;
    if (Health <= 0) Destroy(this.gameObject);
}</pre>
```

CameraFollow.cs Monobehaviur OLD

```
using UnityEngine;
using System.Collections;
public class CameraFollow : MonoBehaviour
    void Update()
    {
        if (IsFollowing)
            if (BirdToFollow != null)
                var birdPosition = BirdToFollow.transform.position;
                float x = Mathf.Clamp(birdPosition.x, minCameraX, maxCameraX);
                transform.position = new Vector3(x, StartingPosition.y, StartingPosition.z);
            }
            else
                IsFollowing = false;
    }
    void Start()
    {
        StartingPosition = transform.position;
    }
    [HideInInspector]
    public Vector3 StartingPosition;
    private const float minCameraX = 0;
    private const float maxCameraX = 13;
    [HideInInspector]
    public bool IsFollowing;
    [HideInInspector]
    public Transform BirdToFollow;
```

- Cambio de orden de variables por legibilidad
- · Cambio de orden de Start y Update por legibilidad

```
public class CameraFollow : MonoBehaviour
    [HideInInspector]
   public Vector3 StartingPosition;
   private const float minCameraX = 0;
   private const float maxCameraX = 13;
   [HideInInspector]
    public bool IsFollowing;
    [HideInInspector]
    public Transform BirdToFollow;
    Mensaje de Unity | 0 referencias void Start()
        StartingPosition = transform.position;

    Mensaje de Unity | 0 referencias
    void Update()

    {
        if (IsFollowing && BirdToFollow != null)
                 var birdPosition = BirdToFollow.transform.position;
                 float x = Mathf.Clamp(birdPosition.x, minCameraX, maxCameraX);
                 transform.position = new Vector3(x, StartingPosition.y, StartingPosition.z);
            else
                 IsFollowing = false;
```

```
public class CameraMove : MonoBehaviour
    void Update()
        if (SlingShot.slingshotState == SlingshotState.Idle && GameManager.CurrentGameState == GameState.Playing)
            if (Input.GetMouseButtonDown(0))
                 timeDragStarted = Time.time;
                dragSpeed = Of;
                previousPosition = Input.mousePosition;
            else if (Input.GetMouseButton(0) && Time.time - timeDragStarted > 0.05f)
                Vector3 input = Input.mousePosition;
                float deltaX = (previousPosition.x - input.x) * dragSpeed;
float deltaY = (previousPosition.y - input.y) * dragSpeed;
                float newX = Mathf.Clamp(transform.position.x + deltaX, 0, 13.36336f);
                 float newY = Mathf.Clamp(transform.position.y + deltaY, 0, 2.715f);
                 transform.position = new Vector3(
                    newX,
                    newY,
                    transform.position.z);
                previousPosition = input;
                 if(dragSpeed < 0.1f) dragSpeed += 0.002f;
    private float dragSpeed = 0.01f;
    private float timeDragStarted;
    private Vector3 previousPosition = Vector3.zero;
    public SlingShot SlingShot;
```

- Cambio de números mágicos por variables declaradas
- Cambio de variables creadas en cada instancia del update por variables creadas en declaración.

CameraMove.cs Monobehaviur NEW

```
private float _dragSpeed = 0.01f;
private float _timeDragStarted;
private Vector3 _previousPosition = Vector3.zero;
private float _xLimit = 13.36336f;
private float _yLimit = 2.715f;
private float _timeDragLimit = 0.05f;
private float _dragSpeedConstant = 0.002f;

private float _deltaX;
private float _deltaY;
private float _newX;
private float _newY;

public SlingShot SlingShot;
```

```
void Update()
   if (SlingShot.slingshotState == SlingshotState.Idle && GameManager.CurrentGameState == GameState.Playing)
       if (Input.GetMouseButtonDown(0))
           _timeDragStarted = Time.time;
           _dragSpeed = 0f;
           _previousPosition = Input.mousePosition;
       else if (Input.GetMouseButton(0) && Time.time - _timeDragStarted > _timeDragLimit)
           Vector3 input = Input.mousePosition;
            _deltaX = (_previousPosition.x - input.x) * _dragSpeed;
            _deltaY = (_previousPosition.y - input.y) * _dragSpeed;
            _newX = Mathf.Clamp(transform.position.x + _deltaX, 0, _xLimit);
             _newY = Mathf.Clamp(transform.position.y + _deltaY, 0, _yLimit);
           transform.position = new Vector3(
               _newX,
               _newY,
               transform.position.z);
            _previousPosition = input;
           if(_dragSpeed < 0.1f) _dragSpeed += _dragSpeedConstant;</pre>
```

CameraPinchToZoom.cs Monobehaviur OLD

```
∃using UnityEngine;
|using System.Collections;
⊡public class CameraPinchToZoom : MonoBehaviour
      void Update()
            if (Input.touchCount == 2)
                 Touch touchZero = Input.GetTouch(0);
                 Touch touchOne = Input.GetTouch(1);
                 Vector2 touchZeroPrevPos = touchZero.position - touchZero.deltaPosition;
                 Vector2 touchOnePrevPos = touchOne.position - touchOne.deltaPosition;
                 \label{float_prevTouchDeltaMag} \begin{subarray}{ll} float prevTouchDeltaMag = (touchZero.position - touchOne.position).magnitude; \\ float touchDeltaMag = (touchZero.position - touchOne.position).magnitude; \\ \end{subarray}
                 float deltaMagnitudeDiff = prevTouchDeltaMag - touchDeltaMag;
                 if (GetComponent<Camera>().orthographic)
                      GetComponent<Camera>().orthographicSize += deltaMagnitudeDiff * orthoZoomSpeed;
                      GetComponent<Camera>().orthographicSize = Mathf.Clamp(GetComponent<Camera>().orthographicSize, 3f, 5f);
                 else
                      GetComponent<Camera>().fieldOfView += deltaMagnitudeDiff * perspectiveZoomSpeed;
GetComponent<Camera>().fieldOfView = Mathf.Clamp(GetComponent<Camera>().fieldOfView, 0.1f, 179.9f);
      public float perspectiveZoomSpeed = 0.5f; public float orthoZoomSpeed = 0.5f;
```

- Creación de variables para reemplazo de números mágicos
- Re-ordenamiento de declaración y Update

CameraPinchToZoom.cs Monobehaviur NEW

```
[Header("Camera Limits if is Orthographic")]
[SerializeField]
private float _ortographicLowLimit;
[SerializeField]
private float _ortographicHighLimit;
[Header("Camera Limits if is NON - Orthographic")]
[SerializeField]
private float _nonOrtographicLowLimit;
[SerializeField]
private float _nonOrtographicHighLimit;
public float perspectiveZoomSpeed = 0.5f;
public float orthoZoomSpeed = 0.5f;
private float _prevTouchDeltaMag;
private float _touchDeltaMag;
private float _deltaMagnitudeDiff;
private float _clampLowLimit;
private float _clampHighLimit;
Mensaje de Unity | 0 referencias
```

Destroyer.cs Monobehaviur OLD

```
using OnliveIngine,
    using System.Collections;

public class Destroyer : MonoBehaviour {
    void OnTriggerEnter2D(Collider2D col)
    {
        string tag = col.gameObject.tag;
        if(tag == "Bird" || tag == "Pig" || tag == "Brick")
        {
            Destroy(col.gameObject);
        }
    }
}
```

- Creación de Gameobject de referencia
- Reemplazo de == por CompareTag

GameManager.cs Monobehaviour OLD

```
public class GameManager : MonoBehaviour
{
    public CameraFollow cameraFollow;
    int currentBirdIndex;
    public SlingShot slingshot;
    [HideInInspector]
    public static GameState CurrentGameState = GameState.Start;
    private List<GameObject> Bricks;
    private List<GameObject> Pigs;
```

```
void Start()
   CurrentGameState = GameState.Start;
   slingshot.enabled = false;
   Bricks = new List<GameObject>(GameObject.FindGameObjectsWithTag("Brick"));
   Birds = new List<GameObject>(GameObject.FindGameObjectsWithTag("Bird"));
   Pigs = new List<GameObject>(GameObject.FindGameObjectsWithTag("Pig"));
   slingshot.BirdThrown -= Slingshot_BirdThrown; slingshot.BirdThrown += Slingshot_BirdThrown;
void Update()
    switch (CurrentGameState)
       case GameState.Start:
           if (Input.GetMouseButtonUp(0))
                AnimateBirdToSlingshot();
           break;
       case GameState.BirdMovingToSlingshot:
       case GameState.Playing:
            if (slingshot.slingshotState == SlingshotState.BirdFlying &&
                (BricksBirdsPigsStoppedMoving() || Time.time - slingshot.TimeSinceThrown > 5f))
               slingshot.enabled = false;
                AnimateCamera_ToStartPosition();
                CurrentGameState = GameState.BirdMovingToSlingshot;
           break;
       case GameState.Won:
       case GameState.Lost:
            if (Input.GetMouseButtonUp(0))
                Application LoadLevel(Application loadedLevel);
            break;
       default:
            break;
```

```
private bool TodosLosCerdosDestruidos()
{
    return Pigs.All(x => x == null);
}
```

- Creación de referencias de gameobjects en Inspector para evitar uso de función FindGameObjectWithTag
- Creación de Instancia de gameManager para Singleton
- Creación de variables para reemplazar números mágicos
- Reamplazo de nombre de funciones de español -> inglés
- Eliminación de guión bajo () en nombres de funciones
- Creación de función StartGame:
 - Referencia de ave seleccionada
 - Creación de lista de estructura (Bricks)

- Creación de lista de enemigos (Pigs)
- Creación de función GameOver como Corutina para llamado de GameOver Gameobject en Canvas

GameManager.cs Monobehaviour NEW

```
public static GameManager Instance { get; set; }
[HideInInspector]
public static GameState CurrentGameState = GameState.Menu;
[Header("Birds Game Objects")]
[SerializeField] private List<GameObject> _birds;
[Header("Enemy Building")]
[SerializeField] private GameObject _enemyBuilding;
[Header("Birds Initial Position")]
[SerializeField] private Transform[] _birdsPosition;
[Header("Score Manager")]
public ScoreManager scoreManager;
[Header("UI Canvas GameObjects")]
[SerializeField] private GameObject _gameplayMenu;
[SerializeField] private GameObject _gameOverMenu;
private List<GameObject> _enemies;
private List<GameObject> _bricks;
private List<GameObject> _birdsList;
private float _slingshotHoldLimit = 5f;
public CameraFollow cameraFollow;
int currentBirdIndex;
public SlingShot slingshot;
```

```
void Start()
{
    //CurrentGameState = GameState.Start;
    slingshot.enabled = false;
    //Not necesary the Find Game object function
    _bricks = new List<GameObject>();
    _birdsList = new List<GameObject>();
    _enemies = new List<GameObject>();
    slingshot.BirdThrown -= SlingshotBirdThrown;
    slingshot.BirdThrown += SlingshotBirdThrown;
}
```

```
//Change Function Name
   1 referencia
   private bool DestroyAllPigs()
         return _enemies.All(x => x == null);
  //Changed Function Name, erased: _
  private void SlingshotBirdThrown(object sender, System.EventArgs e)
        cameraFollow.BirdToFollow = _birdsList[currentBirdIndex].transform;
        cameraFollow.IsFollowing = true;
public void StartGame(int choosedBird)
{
     GameObject BirdGO = Instantiate(_birds[choosedBird]);
BirdGO.transform.position = new Vector3(_birdsPosition[i].transform.position.x, _birdsPosition[i].transform.position.y, _birdsPosition[i].transform.position.z);
_birdsList.Add(BirdGO);
    reach (Transform child in _enemyBuilding.transform)
     if (child.gameObject.CompareTag("Brick"))
       _bricks.Add(child.gameObject);
     if (child.gameObject.CompareTag("Pig"))
        _enemies.Add(child.gameObject);
  CurrentGameState = GameState.Start;
   1 referencia
  IEnumerator GameOver()
        yield return new WaitForSeconds(1);
        _gameplayMenu.SetActive(false);
        _gameOverMenu.SetActive(true);
```

```
□public class Pig : MonoBehaviour
     void Start()
         ChangeSpriteHealth = Health - 30f;
     void OnCollisionEnter2D(Collision2D col)
         if (col.gameObject.GetComponent<Rigidbody2D>() == null) return;
         if (col.gameObject.tag == "Bird")
             GetComponent<AudioSource>().Play();
             Destroy(gameObject);
         }
         else
             float damage = col.gameObject.GetComponent<Rigidbody2D>().velocity.magnitude * 10;
             Health -= damage;
             if (damage >= 10)
                 GetComponent<AudioSource>().Play();
             if (Health < ChangeSpriteHealth)</pre>
                 GetComponent<SpriteRenderer>().sprite = SpriteShownWhenHurt;
             if (Health <= 0) Destroy(this.gameObject);</pre>
     public float Health = 150f;
     public Sprite SpriteShownWhenHurt;
     private float ChangeSpriteHealth;
```

- Se añadió configuración de enemigo tipo PIG como ScriptableObject
- Cambio de declaración de variables y funciones
- Se añadió función para llamar explosión al momento de colisionar con ave de tipo EXPLOSIVE BIRD
- Separación de función de chequeo de puntos de vida del enemigo
- Se creó función para añadir puntos al contacto con un enemigo

```
//Added PIG configuration
[SerializeField] private EnemySriptableObject pigSO;

//Change order of variables and declarations, using SO configuration
private float _health = 150f;
private int _pointsToGiveWhenHit = 10;
private int _pointsToGiveWhenDestroyed = 20;
private float _receivedDamage = 0f;
private float _explotionDamage = 0f;
```

```
void OnCollisionEnter2D(Collision2D col)
{
    //Used declared game object instead of constant calling of Collision
    GameObject collisioner = col.gameObject;

if (collisioner.GetComponent<Rigidbody2D>() == null) return;

if (collisioner.GetComponent<Rigidbody2D>() == null) return;

if (collisioner.GetComponent<Rigidbody2D>() velocity.magnitude * 10;
    __receivedDamage = damage;
    checkHealth(_receivedDamage);
    if (collisioner.GetComponent<Rird>() .birdSO.explosiveBird)
    {
        var explotion = Instantiate(collisioner.GetComponent<Sird>() .birdSO.explotion, collisioner.transform.position, Quaternion.identity);
        ///urn off gameobject visually
        collisioner.GetComponent<SpriteRenderer>().enabled = false;

        ///urn off collider so only hits once
        if (collisioner.GetComponent<CircleCollider2D>())
        {
            collisioner.GetComponent<CircleCollider2D>().enabled = false;
        }
        }
        Destroy(explotion, 1f);
    }
    //Destroy Bird Gameobject
    Destroy(collisioner, 1.5f);
}

//ExplotionCollision For Exploding Bird
    if (collisioner.CompareTag("Explotion"))
    {
        __receivedDamage = _explotionDamage;
        CheckHealth(_receivedDamage);
}
```

```
private void CheckHealth(float damage)
{
    if (damage >= 10)
        GetComponent<AudioSource>().Play();
    _health -= damage;
    if (_health <= 0)
    {
        callAddPoints(_pointsToGiveWhenDestroyed);
        GetComponent<AudioSource>().Play();
        Destroy(gameObject);
    }
    else
    {
        callAddPoints(_pointsToGiveWhenHit);
    }
}
```

```
private void callAddPoints(int points)
{
    GameManager.Instance.scoreManager.AddPoints(points);
    GameManager.Instance.scoreManager.StartCoroutine(GameManager.Instance.scoreManager.ShowAddingPoints());
}
```

CREATION: SCOREMANAGER.CS MONOBEHAVIOUR

```
□public class ScoreManager : MonoBehaviour
     [Header("Score Texts")]
     [SerializeField] private TextMeshProUGUI _score;
     [SerializeField] private TextMeshProUGUI _scoreToAdd;
     [Header("Score To Add Game Object")]
     [SerializeField] private GameObject _scoreToAddGO;
     [Header("Time On Screen")]
     [SerializeField] private float _timeOnSCreen;
     private int _totalPoints;
     private int _pointsToAdd;
     Mensaje de Unity | 0 referencias
     private void Start()
         _{totalPoints} = 0;
     1 referencia
     public void AddPoints(int points)
         _pointsToAdd= points;
         _totalPoints += points;
         _score.text = _totalPoints.ToString();
         _scoreToAdd.text = "+ " + _pointsToAdd.ToString();
     public IEnumerator ShowAddingPoints()
         _scoreToAddGO.SetActive(true);
         yield return new WaitForSeconds(_timeOnSCreen);
         if (_scoreToAddGO.activeInHierarchy)
              _scoreToAddGO.SetActive(false);
```

```
private Vector3 SlingshotMiddleVector;
[HideInInspector]
public SlingshotState slingshotState;
public Transform LeftSlingshotOrigin, RightSlingshotOrigin;
public LineRenderer SlingshotLineRenderer1;
public LineRenderer SlingshotLineRenderer2;
public LineRenderer TrajectoryLineRenderer;
[HideInInspector]
public GameObject BirdToThrow;
public Transform BirdWaitPosition;
public float ThrowSpeed;
[HideInInspector]
public float TimeSinceThrown;
 void MostrarTrayectoria(float distance)
void SetSlingshot_LineRenderersActive(bool active)
   SlingshotLineRenderer1.enabled = active;
   SlingshotLineRenderer2.enabled = active;
```

```
void Start()
{
    SlingshotLineRenderer1.sortingLayerName = "Foreground";
    SlingshotLineRenderer2.sortingLayerName = "Foreground";
    TrajectoryLineRenderer.sortingLayerName = "Foreground";
```

- Se crearon variables para evitar el uso de números y strings mágicos
- Se cambió el nombre de funciones español->inglés
- Se creo Corutina para división de ave

Slingshot.cs Monobehaviour NEW

```
[SerializeField]
private string sortingLayerNameString = "Foreground";
[SerializeField]
private float _timeToDivideBird = 0.25f;
[HideInInspector]
public float TimeSinceThrown;
[HideInInspector]
public GameObject BirdToThrow;
//Changed Position of variables & declarations
private Vector3 SlingshotMiddleVector;
[HideInInspector]
public SlingshotState slingshotState;
public Transform LeftSlingshotOrigin, RightSlingshotOrigin;
public Transform BirdWaitPosition;
public LineRenderer SlingshotLineRenderer1;
public LineRenderer SlingshotLineRenderer2;
public LineRenderer TrajectoryLineRenderer;
public float ThrowSpeed;
private int _segmentCount = 15;
private int _segmentScale = 2;
private float _setStringshotLimit = 1.5f;
private float _newBirdDistance =0.5f;
private float _newLineDistance = 0.5f;
private float _slingshotLimit;
```

```
private void ShotBird(float distance)
{
    Vector3 velocity = SlingshotMiddleVector - BirdToThrow.transform.position;
    BirdToThrow.GetComponent<Bird>().ShootBird();
    BirdToThrow.GetComponent<Rigidbody2D>().velocity = new Vector2(velocity.x, velocity.y) * ThrowSpeed * distance;
    if (BirdToThrow.GetComponent<Bird>().birdSO.multipleBird)
    {
        StartCoroutine(DivideBird(_timeToDivideBird));
    }
    if (BirdThrown != null)
        BirdThrown(this, EventArgs.Empty);
}
```

CREATION: UIMANAGER.CS MONOBEHAVIOUR

- Referencias de botones:
 - START GAME
 - o SELECT BIRD LEFT / RIGHT
 - RETRY
 - QUIT GAME
- Listeners
- Referencias a aves para elección (GameObject.sprite)

```
    ⊕ Script de Unity (1 referencia de recurso) | 0 referencias
    ⊨public class UIManager: MonoBehaviour

      [Header("--- Game Manager ---")]
      [SerializeField] private GameManager _gameManager;
      [Header("Buttons")]
      [SerializeField] private Button _leftArrowButton;
      [SerializeField] private Button _rigithArrowButton;
      [SerializeField] private Button _startButton;
      [SerializeField] private Button _endButton;
      [SerializeField] private Button _retryButton;
      [Header("Birds GameObject")]
      [SerializeField] private GameObject[] _birds;
      [Header("Bird Image")]
      [SerializeField] private Image _birdImage;
      [Header("Bird Name and type")]
      [SerializeField] private TextMeshProUGUI _birdName;
      [SerializeField] private TextMeshProUGUI _birdType;
      private int _choosedBird = 0;
      private const int LEFT = -1;
      private const int RIGHT = 1;

⊕ Mensaje de Unity | 0 referencias

      private void Start()
          //Listeners for buttons & UI pre order
          initialize();
```

```
private void initialize()
   _birdImage.sprite = _birds[0].GetComponent<SpriteRenderer>().sprite;
   _leftArrowButton?.onClick.RemoveAllListeners();
   _rigithArrowButton?.onClick.RemoveAllListeners();
   _startButton?.onClick.RemoveAllListeners();
    _endButton?.onClick.RemoveAllListeners();
   _retryButton?.onClick.RemoveAllListeners();
   _leftArrowButton?.onClick.AddListener(onLeftArrowClicked);
   _rigithArrowButton?.onClick?.AddListener(onRightArrowClicked);
   _startButton?.onClick.AddListener(()=> StartGame(_choosedBird));
   _endButton?.onClick.AddListener(onExitButtonClicked);
    _retryButton.onClick.AddListener(onRetryButtonClicked);
   changeBird(0);
private void onLeftArrowClicked()
   changeBird(LEFT);
private void onRightArrowClicked()
   changeBird(RIGHT);
```

```
referencia
private void onRetryButtonClicked()
{
    SceneManager.LoadScene(SceneManager.GetActiveScene().name);
    GameManager.CurrentGameState = GameState.Menu;
}

referencia
private void onExitButtonClicked()
{
    Application.Quit();
}

referencias
private void changeBird(int value)
{
    _choosedBird += value;
    if (_choosedBird < 0 )
    _
        _ choosedBird = _birds.Length-1;
}
else if (_choosedBird > _birds.Length-1)
{
    __choosedBird = 0;
}

_birdName.text = _birds[_choosedBird].GetComponent<Bird>().birdSO.birdName;
    __birdType.text = BirdType(_birds[_choosedBird].GetComponent<SpriteRenderer>().sprite;
}
```

```
private string BirdType(Bird birdGO)
{
    string type = "";
    if (birdGO.birdSO.explosiveBird)
    {
        type = "Explosive bird!";
        return type;
    }
    else if (birdGO.birdSO.multipleBird)
    {
        type = "Multiple bird!";
        return type;
    }
    else
    {
        type = "Normal bird!";
        return type;
    }
}

1 referencia
private void StartGame(int choosedBird)
{
        _gameManager.StartGame(choosedBird);
}
```

Scriptable Objects:

```
[CreateAssetMenu(menuName = "Enemy/NewEnemy")]

□public class EnemySriptableObject : ScriptableObject
{
    public string enemyName;
    public int lifePoints;
    public int pointsGivenWhenHit;
    public int pointsGivenWhenDestroyed;
}

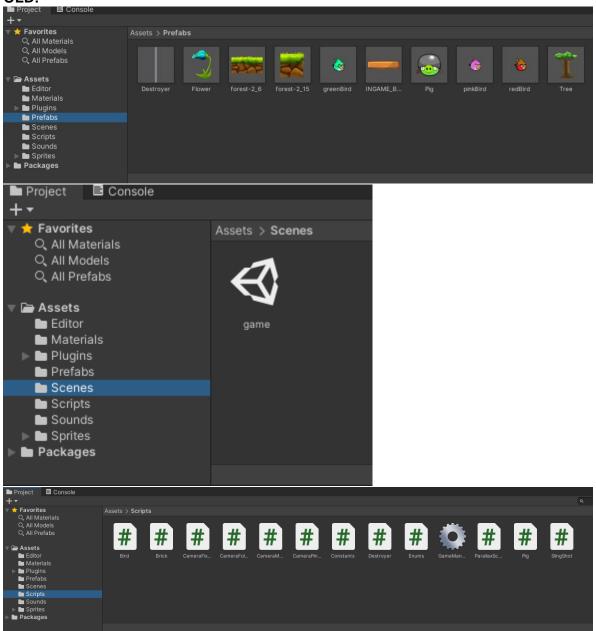
[CreateAssetMenu(menuName = "Bird/NewBird")]

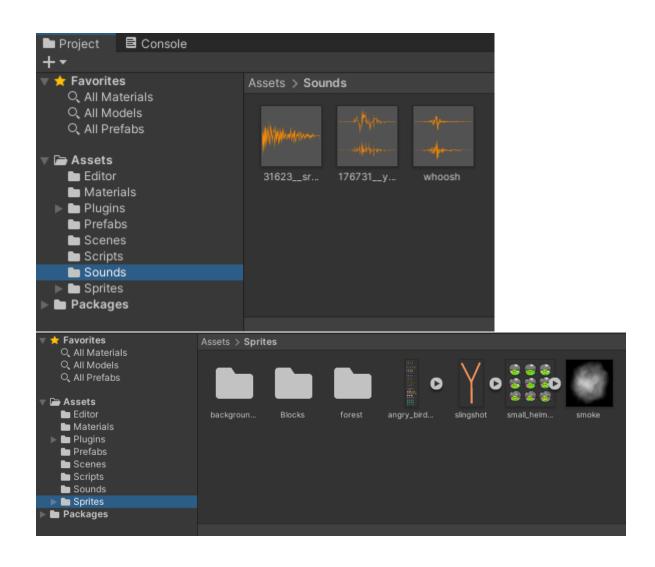
□public class BirdScriptableObject : ScriptableObject
{
    public string birdName;
    public bool explosiveBird;
    public float explotionDamage;
```

public bool multipleBird; public float destructionTime; public GameObject explotion;

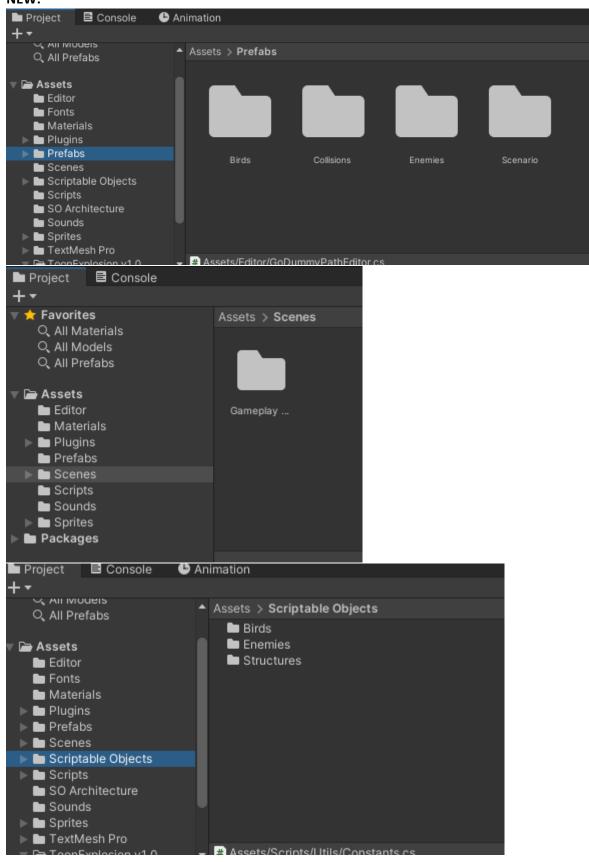
2. Estructura de Carpetas

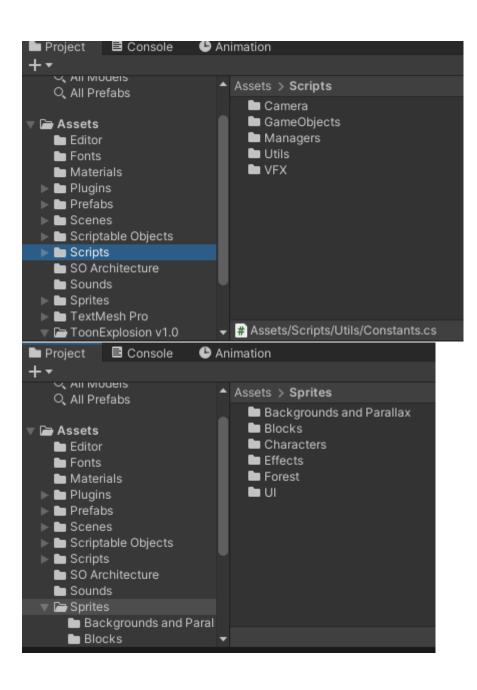
OLD:



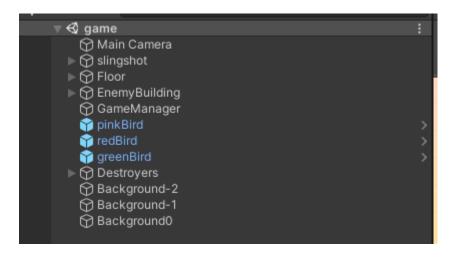


NEW:





3. Jerarquía de Objetos y configuración de escena:



- Poco orden de Gameobjects pre dispuestos en escena
- Sin jerarquía de Managers
- No hay Canvas para escalar UI
- Innecesaria instanciación de birds (Pink red Green) por configuración de GameManager
- No hay límite bien configurado para la cámara y no aplica si se intenta jugar en Portrait

