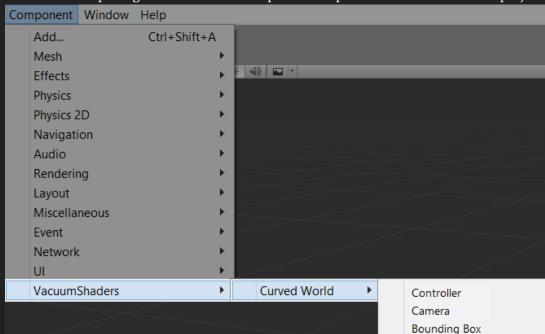
### **Curved World API**



Curved World package contains three component scripts that can be used inside project.

- Controller Updates bend parameters for all shaders using Curved World vertex transformation. Scene must have only one active instance of this script.
- Camera Overrides camera's field of view parameter for rendering meshes outside its view frustum. Solves mesh disappearing problem.
- Bounding Box Scales individual **non-static** render's bounding box. Solves mesh disappearing problem and makes renderer visible to a light source shadow cast/receive pass.

## CurvedWorld\_Controller

**static** public CurvedWorld\_Controller current — Returns reference to the active CurvedWorld\_Controller script of a scene.

public float upDownSize, upDownOffset; public float leftRightSize, leftRightOffset;

Parameters for adjusting Classic Runner bend effect.

public float curvatureSize, curvatureOffset

Parameters adjust curvature size and offset for Little Planet, Cylindrical Tower and Cylindrical Rolloff bend effects.

public Vector3 bendSize, bendOffset

Parameters control per-axis (X, Y, Z) bend size and offset for Universal and Perspective 2D bend effects.

public float angle, angle\_2;
public float minimalRadius, minimalRadius\_2;
public float rolloff;

Parameters control shape of Spiral bend effects.

public Transform pivotPoint, pivotPoint\_2;
Curvature pivot points.

#### public void DisableBend ()

Used to disable all bending effects.

Note: This does not affect shader performance, variables are just updated not to create curvature.

#### public void EnableBend ()

Restores curvature parameters disabled by DisableBend method.

#### public void Reset ()

Resets CurvedWorld\_Controller variables to their defaults.

```
public Vector3 TransformPosition (Vector3 _transformPosition, BEND_TYPE _bendType)
```

Modifies world space Vector3 value using **CurvedWorld\_Controller** parameters to follow Curved World curvature.

Useful for updating Colliders, Lights, Projects and other objects position.

```
public Quaternion TransformRotation (Vector3 _transformPosition, Vector3 _transformForward,
Vector3 _transformRight, BEND_TYPE _bendType)
```

Calculates rotation that follows curvature created by shaders.

Check 8. Follow (Script Bending) example scene.

Objects position there is updated using **Follow** script, to follow curvature created by Curved World shaders.

## CurvedWorld\_Camera

The only public variable - public float fieldOfView;

# CurvedWorld\_BoundingBox

The only public variable - public float scale;