Mesh Exploder 1.0.0

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Namespace Index

Here are the packages with brief descriptions (if available):

1.1 Package List

CDC			

2 Namespace Index

Hierarchical Index

2.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

MonoBehaviour		
SBS.ME.MeshExploder	. 1	C
ScriptableObject		
SRS MF GuideSO		c

Hierarchical Index

Class Index

3.1 Class List

SBS ME GuideSO			

Here are the classes, structs, unions and interfaces with brief descriptions:

SBS.ME.GuideSO																		y
SBS.ME.MeshExplo	der																	10

6 Class Index

Namespace Documentation

4.1 SBS Namespace Reference

Namespaces

• namespace ME

4.2 SBS.ME Namespace Reference

Classes

- class GuideSO
- class MeshExploder

Enumerations

- enum ExplosionOrigin { center , pivot , offset }
- enum ColliderType { BoxCollider , MeshCollider }

4.2.1 Enumeration Type Documentation

4.2.1.1 ColliderType

enum SBS.ME.ColliderType

Enumerator

BoxCollider	
MeshCollider	

4.2.1.2 ExplosionOrigin

enum SBS.ME.ExplosionOrigin

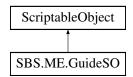
Enumerator

center	
pivot	
offset	

Class Documentation

5.1 SBS.ME.GuideSO Class Reference

Inheritance diagram for SBS.ME.GuideSO:



Public Attributes

- string nameAndVer = "MESH EXPLODER"
- string smallName = "Mesh Exploder"
- string docs = ""
- string onlineDocs = ""
- string tuts = ""
- string forum = ""
- string mail = "smallbigsquare@gmail.com"
- string rate = "https://assetstore.unity.com/packages/slug/307984"
- string pub = "https://assetstore.unity.com/publishers/90279"

5.1.1 Member Data Documentation

5.1.1.1 docs

```
string SBS.ME.GuideSO.docs = ""
```

5.1.1.2 forum

```
string SBS.ME.GuideSO.forum = ""
```

5.1.1.3 mail

```
string SBS.ME.GuideSO.mail = "smallbigsquare@gmail.com"
```

5.1.1.4 nameAndVer

```
string SBS.ME.GuideSO.nameAndVer = "MESH EXPLODER"
```

5.1.1.5 onlineDocs

```
string SBS.ME.GuideSO.onlineDocs = ""
```

5.1.1.6 pub

```
string SBS.ME.GuideSO.pub = "https://assetstore.unity.com/publishers/90279"
```

5.1.1.7 rate

```
string SBS.ME.GuideSO.rate = "https://assetstore.unity.com/packages/slug/307984"
```

5.1.1.8 smallName

```
string SBS.ME.GuideSO.smallName = "Mesh Exploder"
```

5.1.1.9 tuts

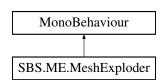
```
string SBS.ME.GuideSO.tuts = ""
```

The documentation for this class was generated from the following file:

• GuideSO.cs

5.2 SBS.ME.MeshExploder Class Reference

Inheritance diagram for SBS.ME.MeshExploder:



Public Member Functions

• void DESTROY ()

Destroys this object and all parts created by it.

void moveTrianglesInMesh ()

Animates mesh triangles in the explosion.

• Mesh retriangulateMesh (Mesh mesh)

It creates new mesh from existing one but it creates multiple vertices so each triangle will have its own set of vertices.

void explodeMesh (Mesh mesh)

It creates direction vectors, they will be used to move triangles.

• void EXPLODE ()

Call this method or set explode variable to true to explode this mesh.

Public Attributes

- bool explodeNOW = false
- bool recalculteNormals = true
- bool recalculateTangents = false
- bool recalculateBounds = false
- bool createGameObjects = false
- float probabilityOfCreatingAnObject = 1
- ColliderType colliderAttached = ColliderType.MeshCollider
- bool useNormalsAsExplosionDirection = false
- ExplosionOrigin explosionOrigin
- Vector3 ExplosionOffset = Vector3.zero
- bool normalizeDirection = true
- float explosionInitSpeed = 1
- Vector3 gravity = Vector3.zero
- float friction = 0.99f
- bool doubleSided = true
- float flipSideDistance = 0.001f
- float explosionTime = 1
- bool destroyObjectAfterExplosion = true
- UnityEvent< GameObject, Vector3 > onExplosionStarted
- UnityEvent< List< GameObject >> onPartsCreated
- · UnityEvent onExplosionFinished

Private Member Functions

- void Awake ()
- void Update ()
- Vector3 CalculateGlobalScaleRecursive (Transform transform)

finds scale of the child object

· void OnValidate ()

Private Attributes

- · Mesh newMesh
- bool explosionFinished = false
- float currentTime = 0
- bool recalculated = false
- · MeshFilter filter
- MeshRenderer MR
- List< GameObject > createdGameObjectTriangles
- Vector3[] directions
- Vector3[] centers
- Vector3 centerPoint = Vector3.zero

5.2.1 Member Function Documentation

5.2.1.1 Awake()

```
void SBS.ME.MeshExploder.Awake ( ) [private]
```

5.2.1.2 CalculateGlobalScaleRecursive()

```
\label{thm:continuous} \begin{tabular}{ll} Vector 3 & SBS.ME.MeshExploder.CalculateGlobalScaleRecursive ( \\ & Transform & transform \end{tabular}) & [private] \end{tabular}
```

finds scale of the child object

Parameters

transform

Returns

Calculated scale

5.2.1.3 DESTROY()

```
void SBS.ME.MeshExploder.DESTROY ( )
```

Destroys this object and all parts created by it.

5.2.1.4 EXPLODE()

```
void SBS.ME.MeshExploder.EXPLODE ( )
```

Call this method or set explode variable to true to explode this mesh.

5.2.1.5 explodeMesh()

```
void SBS.ME.MeshExploder.explodeMesh ( {\tt Mesh} \ {\tt mesh} \ )
```

It creates direction vectors, they will be used to move triangles.

5.2.1.6 moveTrianglesInMesh()

```
void SBS.ME.MeshExploder.moveTrianglesInMesh ( )
```

Animates mesh triangles in the explosion.

5.2.1.7 OnValidate()

```
void SBS.ME.MeshExploder.OnValidate ( ) [private]
```

5.2.1.8 retriangulateMesh()

```
Mesh SBS.ME.MeshExploder.retriangulateMesh ( {\tt Mesh}\ mesh\ )
```

It creates new mesh from existing one but it creates multiple vertices so each triangle will have its own set of vertices.

Returns

new retriangulated mesh

5.2.1.9 Update()

```
void SBS.ME.MeshExploder.Update ( ) [private]
```

5.2.2 Member Data Documentation

5.2.2.1 centerPoint

```
Vector3 SBS.ME.MeshExploder.centerPoint = Vector3.zero [private]
```

5.2.2.2 centers

```
Vector3 [] SBS.ME.MeshExploder.centers [private]
```

5.2.2.3 colliderAttached

ColliderType SBS.ME.MeshExploder.colliderAttached = ColliderType.MeshCollider

5.2.2.4 createdGameObjectTriangles

List<GameObject> SBS.ME.MeshExploder.createdGameObjectTriangles [private]

5.2.2.5 createGameObjects

```
bool SBS.ME.MeshExploder.createGameObjects = false
```

5.2.2.6 currentTime

float SBS.ME.MeshExploder.currentTime = 0 [private]

5.2.2.7 destroyObjectAfterExplosion

bool SBS.ME.MeshExploder.destroyObjectAfterExplosion = true

5.2.2.8 directions

Vector3 [] SBS.ME.MeshExploder.directions [private]

5.2.2.9 doubleSided

bool SBS.ME.MeshExploder.doubleSided = true

5.2.2.10 explodeNOW

bool SBS.ME.MeshExploder.explodeNOW = false

5.2.2.11 explosionFinished

bool SBS.ME.MeshExploder.explosionFinished = false [private]

5.2.2.12 explosionInitSpeed

float SBS.ME.MeshExploder.explosionInitSpeed = 1

5.2.2.13 ExplosionOffset

 ${\tt Vector 3-SBS.ME.MeshExploder.ExplosionOffset = Vector 3.zero}$

5.2.2.14 explosionOrigin

ExplosionOrigin SBS.ME.MeshExploder.explosionOrigin

5.2.2.15 explosionTime

float SBS.ME.MeshExploder.explosionTime = 1

5.2.2.16 filter

MeshFilter SBS.ME.MeshExploder.filter [private]

5.2.2.17 flipSideDistance

float SBS.ME.MeshExploder.flipSideDistance = 0.001f

5.2.2.18 friction

float SBS.ME.MeshExploder.friction = 0.99f

5.2.2.19 gravity

Vector3 SBS.ME.MeshExploder.gravity = Vector3.zero

5.2.2.20 MR

MeshRenderer SBS.ME.MeshExploder.MR [private]

5.2.2.21 newMesh

Mesh SBS.ME.MeshExploder.newMesh [private]

5.2.2.22 normalizeDirection

bool SBS.ME.MeshExploder.normalizeDirection = true

5.2.2.23 on Explosion Finished

 ${\tt UnityEvent SBS.ME.MeshExploder.onExplosionFinished}$

5.2.2.24 on Explosion Started

UnityEvent<GameObject, Vector3> SBS.ME.MeshExploder.onExplosionStarted

5.2.2.25 onPartsCreated

 ${\tt UnityEvent}{<\tt List{<}GameObject>} > {\tt SBS.ME.MeshExploder.onPartsCreated}$

5.2.2.26 probabilityOfCreatingAnObject

 ${\tt float SBS.ME.MeshExploder.probabilityOfCreatingAnObject = 1}$

5.2.2.27 recalculateBounds

bool SBS.ME.MeshExploder.recalculateBounds = false

5.2.2.28 recalculated

bool SBS.ME.MeshExploder.recalculated = false [private]

5.2.2.29 recalculateTangents

bool SBS.ME.MeshExploder.recalculateTangents = false

5.2.2.30 recalculteNormals

bool SBS.ME.MeshExploder.recalculteNormals = true

5.2.2.31 useNormalsAsExplosionDirection

bool SBS.ME.MeshExploder.useNormalsAsExplosionDirection = false

The documentation for this class was generated from the following file:

· MeshExploder.cs

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