

Poly Few | Mesh Simplifier and Auto LOD Generator

Generated by Doxygen 1.8.17

1	Namespace Index	1
	1.1 Packages	1
2	Hierarchical Index	3
	2.1 Class Hierarchy	3
3	Class Index	5
	3.1 Class List	5
4	Namespace Documentation	7
	4.1 BrainFailProductions Namespace Reference	7
	4.2 BrainFailProductions.PolyFewRuntime Namespace Reference	7
5	Class Documentation	9
	5.1 BrainFailProductions.PolyFewRuntime.PolyfewRuntime.CustomMeshActionStructure Class Reference	9
	5.1.1 Detailed Description	9
	5.1.2 Member Data Documentation	9
	5.1.2.1 action	10
	5.1.2.2 gameObject	10
	5.1.2.3 meshRendererPair	10
	5.2 BrainFailProductions.PolyFewRuntime.PolyfewRuntime.MeshRendererPair Class Reference	10
	5.2.1 Detailed Description	11
	5.2.2 Member Data Documentation	11
	5.2.2.1 attachedToMeshFilter	11
	5.2.2.2 mesh	11
	5.3 BrainFailProductions.PolyFewRuntime.PolyfewRuntime.ObjectMeshPairs Class Reference	11
	5.3.1 Detailed Description	12
	5.4 BrainFailProductions.PolyFewRuntime.PolyfewRuntime.OBJExportOptions Class Reference	12
	5.4.1 Detailed Description	12
	5.4.2 Member Data Documentation	12
	5.4.2.1 applyPosition	13
	5.4.2.2 applyRotation	13
	5.4.2.3 applyScale	13
	5.4.2.4 exportTextures	13
	5.4.2.5 generateMaterials	13
	5.5 BrainFailProductions.PolyFewRuntime.PolyfewRuntime.OBJImportOptions Class Reference	14
	5.5.1 Detailed Description	14
	5.6 BrainFailProductions.PolyFewRuntime.PolyfewRuntime Class Reference	14
	5.6.1 Member Enumeration Documentation	16
	5.6.1.1 MeshCombineTarget	16
	5.6.2 Member Function Documentation	16
	5.6.2.1 CombineMeshesFromRenderers()	16
	5.6.2.2 CombineMeshesInGameObject()	17
	5.6.2.3 ConvertSkinnedMeshesFromRenderers()	17
	3.0.2.0 Outre tokimedirest form tenderers()	1 /

5.6.2.4 ConvertSkinnedMeshesInGameObject()	18
5.6.2.5 CountTriangles() [1/2]	18
5.6.2.6 CountTriangles() [2/2]	19
5.6.2.7 ExportGameObjectToOBJ()	19
5.6.2.8 GetObjectMeshPairs()	19
5.6.2.9 ImportOBJFromFileSystem()	20
5.6.2.10 ImportOBJFromNetwork()	21
5.6.2.11 SimplifyMeshes()	21
5.6.2.12 SimplifyObjectDeep() [1/3]	22
5.6.2.13 SimplifyObjectDeep() [2/3]	22
5.6.2.14 SimplifyObjectDeep() [3/3]	23
5.7 BrainFailProductions.PolyFewRuntime.PolyfewRuntime.PreservationSphere Class Reference	24
5.7.1 Detailed Description	24
5.7.2 Member Data Documentation	24
5.7.2.1 diameter	24
5.7.2.2 preservationStrength	24
5.7.2.3 worldPosition	25
$5.8 \ \ BrainFailProductions. PolyFewRuntime. PolyfewRuntime. Referenced Numeric <\ T\ >\ Class\ \ Template$	
Reference	25
5.8.1 Detailed Description	25
5.9 BrainFailProductions.PolyFewRuntime.PolyfewRuntime.SimplificationOptions Class Reference	26
5.9.1 Detailed Description	27
5.9.2 Member Data Documentation	27
5.9.2.1 aggressiveness	27
5.9.2.2 enableSmartlinking	27
5.9.2.3 maxIterations	27
5.9.2.4 preservationSpheres	28
5.9.2.5 preserveBorderEdges	28
5.9.2.6 preserveUVFoldoverEdges	28
5.9.2.7 preserveUVSeamEdges	28
5.9.2.8 recalculateNormals	28
5.9.2.9 regardCurvature	29
5.9.2.10 regardPreservationSpheres	29
5.9.2.11 simplificationStrength	29
5.9.2.12 simplifyMeshLossless	29
5.9.2.13 useEdgeSort	29
Index	31

Namespace Index

1.1 Packages

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

BrainFailProductions	. 7
BrainFailProductions.PolyFewRuntime	. 7

Hierarchical Index

2.1 Class Hierarchy

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

BrainFailProductions.PolyFewRuntime.PolyfewRuntime.CustomMeshActionStructure
Dictionary
BrainFailProductions.PolyFewRuntime.PolyfewRuntime.ObjectMeshPairs
ImportOptions
BrainFailProductions.PolyFewRuntime.PolyfewRuntime.OBJImportOptions
BrainFailProductions.PolyFewRuntime.PolyfewRuntime.MeshRendererPair
MonoBehaviour
BrainFailProductions.PolyFewRuntime.PolyfewRuntime
BrainFailProductions.PolyFewRuntime.PolyfewRuntime.OBJExportOptions
BrainFailProductions.PolyFewRuntime.PolyfewRuntime.PreservationSphere
$BrainFail Productions. PolyFew Runtime. Polyfew Runtime. Referenced Numeric < T > \dots \dots \dots 2$
BrainFailProductions.PolyFewRuntime.PolyfewRuntime.SimplificationOptions

Class Index

3.1 Class List

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

BrainFailProductions.PolyFewRuntime.PolyfewRuntime.CustomMeshActionStructure	
This class represents a custom data structure that holds reference to a MeshRendererPair, the	
GameObject from which the MeshRendererPair was constructed and an Action object used to	
execute some code	9
BrainFailProductions.PolyFewRuntime.PolyfewRuntime.MeshRendererPair	
This class represents a simple data structure that holds reference to a mesh and whether that	
mesh is part of a MeshRenderer (Attached to MeshFilter) or SkinnedMeshRenderer. This struc-	
ture is used thoroughly in various mesh simplification operations	10
BrainFailProductions.PolyFewRuntime.PolyfewRuntime.ObjectMeshPairs	
A Dictionary that holds a GameObject as key and the associated MeshRendererPair as value .	11
BrainFailProductions.PolyFewRuntime.PolyfewRuntime.OBJExportOptions	
Options that define how the a GameObject will be exported to wavefront OBJ	12
BrainFailProductions.PolyFewRuntime.PolyfewRuntime.OBJImportOptions	
Options that define how the model will be loaded and imported	14
BrainFailProductions.PolyFewRuntime.PolyfewRuntime	14
BrainFailProductions.PolyFewRuntime.PolyfewRuntime.PreservationSphere	
This class is used to represent a preservation sphere. A preservation sphere retains the original	
quality of the mesh area enclosed within it while simplifying all other areas of the mesh. Please	
note that mesh simplification with preservation spheres might get slow	24
BrainFailProductions. PolyFewRuntime. PolyfewRuntime. Referenced Numeric < T >	
A wrapper class that holds a primitive numeric type and fakes them to act as reference types .	25
BrainFailProductions.PolyFewRuntime.PolyfewRuntime.SimplificationOptions	
This class holds all the available options for mesh simplification. An object of this class is needed	
by many of the Mesh Simplification methods for controlling the mesh simplification process	26

Namespace Documentation

- 4.1 BrainFailProductions Namespace Reference
- 4.2 BrainFailProductions.PolyFewRuntime Namespace Reference

Classes

class PolyfewRuntime

Class Documentation

5.1 BrainFailProductions.PolyFewRuntime.PolyfewRuntime.Custom MeshActionStructure Class Reference

This class represents a custom data structure that holds reference to a MeshRendererPair, the GameObject from which the MeshRendererPair was constructed and an Action object used to execute some code.

Public Member Functions

CustomMeshActionStructure (MeshRendererPair meshRendererPair, GameObject gameObject, Action action)

Public Attributes

· MeshRendererPair meshRendererPair

The MeshRendererPair constructed for the referenced GameObject. This contains the mesh associated with the GameObject if any and some other info about the mesh.

· GameObject gameObject

The GameObject with which this data structure is associated with.

· Action action

An action object that can hold some custom code to execute.

5.1.1 Detailed Description

This class represents a custom data structure that holds reference to a MeshRendererPair, the GameObject from which the MeshRendererPair was constructed and an Action object used to execute some code.

5.1.2 Member Data Documentation

5.1.2.1 action

Action BrainFailProductions.PolyFewRuntime.PolyfewRuntime.CustomMeshActionStructure.action

An action object that can hold some custom code to execute.

5.1.2.2 gameObject

 $\label{lem:continuous} Game Object \ Brain Fail Productions. Poly Few Runtime. Poly few Runtime. Custom Mesh Action Structure. game \leftrightarrow Object$

The GameObject with which this data structure is associated with.

5.1.2.3 meshRendererPair

 ${\tt MeshRendererPair} \ \, {\tt BrainFailProductions.PolyFewRuntime.PolyfewRuntime.CustomMeshActionStructure.} \leftarrow {\tt meshRendererPair} \ \, {\tt meshRen$

The MeshRendererPair constructed for the referenced GameObject. This contains the mesh associated with the GameObject if any and some other info about the mesh.

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

• C:/Users/kbawa/Desktop/NEW DOCS/PolyFew/PolyfewRuntime.cs

5.2 BrainFailProductions.PolyFewRuntime.PolyfewRuntime.Mesh RendererPair Class Reference

This class represents a simple data structure that holds reference to a mesh and whether that mesh is part of a MeshRenderer (Attached to MeshFilter) or SkinnedMeshRenderer. This structure is used thoroughly in various mesh simplification operations.

Public Member Functions

- MeshRendererPair (bool attachedToMeshFilter, Mesh mesh)
- void Destruct ()

Public Attributes

bool attachedToMeshFilter

Whether mesh is part of a MeshRenderer (Attached to MeshFilter) or SkinnedMeshRenderer.

Mesh mesh

A reference to a mesh

5.2.1 Detailed Description

This class represents a simple data structure that holds reference to a mesh and whether that mesh is part of a MeshRenderer (Attached to MeshFilter) or SkinnedMeshRenderer. This structure is used thoroughly in various mesh simplification operations.

5.2.2 Member Data Documentation

5.2.2.1 attachedToMeshFilter

Whether mesh is part of a MeshRenderer (Attached to MeshFilter) or SkinnedMeshRenderer.

5.2.2.2 mesh

Mesh BrainFailProductions.PolyFewRuntime.PolyfewRuntime.MeshRendererPair.mesh

A reference to a mesh

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

• C:/Users/kbawa/Desktop/NEW DOCS/PolyFew/PolyfewRuntime.cs

5.3 BrainFailProductions.PolyFewRuntime.PolyfewRuntime.Object MeshPairs Class Reference

A Dictionary that holds a GameObject as key and the associated MeshRendererPair as value

Inheritance diagram for BrainFailProductions.PolyFewRuntime.PolyfewRuntime.ObjectMeshPairs:



5.3.1 Detailed Description

A Dictionary that holds a GameObject as key and the associated MeshRendererPair as value

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

• C:/Users/kbawa/Desktop/NEW DOCS/PolyFew/PolyfewRuntime.cs

5.4 BrainFailProductions.PolyFewRuntime.PolyfewRuntime.OBJExport Options Class Reference

Options that define how the a GameObject will be exported to wavefront OBJ.

Public Member Functions

• **OBJExportOptions** (bool applyPosition, bool applyRotation, bool applyScale, bool generateMaterials, bool exportTextures)

Public Attributes

- readonly bool applyPosition = true
 - When checked, the position of models will be taken into account on export.
- readonly bool applyRotation = true
 - When checked, the rotation of models will be taken into account on export.
- readonly bool applyScale = true
 - When checked, the scale of models will be taken into account on export.
- readonly bool generateMaterials = true
 - Should the materials associated with the GameObject to export also be exported as .MTL files.
- readonly bool exportTextures = true
 - Should the textures associated with the materials also be exported.

5.4.1 Detailed Description

Options that define how the a GameObject will be exported to wavefront OBJ.

5.4.2 Member Data Documentation

5.4.2.1 applyPosition

readonly bool BrainFailProductions.PolyFewRuntime.PolyfewRuntime.OBJExportOptions.apply \leftarrow Position = true

When checked, the position of models will be taken into account on export.

5.4.2.2 applyRotation

 $\label{eq:polyfewRuntime.PolyfewRuntime.OBJExportOptions.apply} \textbf{Rotation} = \texttt{true}$

When checked, the rotation of models will be taken into account on export.

5.4.2.3 applyScale

readonly bool BrainFailProductions.PolyFewRuntime.PolyfewRuntime.OBJExportOptions.applyScale =
true

When checked, the scale of models will be taken into account on export.

5.4.2.4 exportTextures

readonly bool BrainFailProductions.PolyFewRuntime.PolyfewRuntime.OBJExportOptions.export \leftarrow Textures = true

Should the textures associated with the materials also be exported.

5.4.2.5 generateMaterials

 $\label{lem:polyfewRuntime.PolyfewRuntime.OBJExportOptions.generate} \\ \text{Materials} = \text{true} \\$

Should the materials associated with the GameObject to export also be exported as .MTL files.

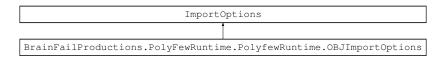
The documentation for this class was generated from the following file:

C:/Users/kbawa/Desktop/NEW DOCS/PolyFew/PolyfewRuntime.cs

5.5 BrainFailProductions.PolyFewRuntime.PolyfewRuntime.OBJImport Options Class Reference

Options that define how the model will be loaded and imported.

Inheritance diagram for BrainFailProductions.PolyFewRuntime.PolyfewRuntime.OBJImportOptions:



5.5.1 Detailed Description

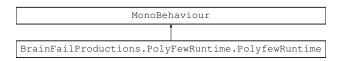
Options that define how the model will be loaded and imported.

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

• C:/Users/kbawa/Desktop/NEW DOCS/PolyFew/PolyfewRuntime.cs

5.6 BrainFailProductions.PolyFewRuntime.PolyfewRuntime Class Reference

 $Inheritance\ diagram\ for\ BrainFailProductions. PolyFewRuntime. PolyfewRuntime:$



Classes

• class CustomMeshActionStructure

This class represents a custom data structure that holds reference to a MeshRendererPair, the GameObject from which the MeshRendererPair was constructed and an Action object used to execute some code.

• class MeshRendererPair

This class represents a simple data structure that holds reference to a mesh and whether that mesh is part of a MeshRenderer (Attached to MeshFilter) or SkinnedMeshRenderer. This structure is used thoroughly in various mesh simplification operations.

class ObjectMeshPairs

A Dictionary that holds a GameObject as key and the associated MeshRendererPair as value

class OBJExportOptions

Options that define how the a GameObject will be exported to wavefront OBJ.

class OBJImportOptions

Options that define how the model will be loaded and imported.

· class PreservationSphere

This class is used to represent a preservation sphere. A preservation sphere retains the original quality of the mesh area enclosed within it while simplifying all other areas of the mesh. Please note that mesh simplification with preservation spheres might get slow.

class ReferencedNumeric

A wrapper class that holds a primitive numeric type and fakes them to act as reference types.

· class SimplificationOptions

This class holds all the available options for mesh simplification. An object of this class is needed by many of the Mesh Simplification methods for controlling the mesh simplification process.

Public Types

enum MeshCombineTarget { SkinnedAndStatic, StaticOnly, SkinnedOnly }

An enum that is used to specify what kind of meshes to combine

Static Public Member Functions

static int SimplifyObjectDeep (GameObject toSimplify, SimplificationOptions simplificationOptions, Action
 GameObject, MeshRendererPair > OnEachMeshSimplified)

Simplifies the provided gameobject include the full nested children hierarchy with the settings provided. Any errors are thrown as exceptions with relevant information. Please note that the method won't simplify the object if the simplification strength provided in the SimplificationOptions is close to 0.

static ObjectMeshPairs SimplifyObjectDeep (GameObject toSimplify, SimplificationOptions simplification
 — Options)

Simplifies the meshes nested under the given gameobject(including itself) including the full nested children hierarchy with the settings provided. Retuns back a specialized data structure with the simplified meshes. Any errors are thrown as exceptions with relevant information. Please note that the method won't simplify the object if the simplification strength provided in the SimplificationOptions is close to 0.

• static int SimplifyObjectDeep (ObjectMeshPairs objectMeshPairs, SimplificationOptions simplificationOptions, Action< GameObject, MeshRendererPair > OnEachMeshSimplified)

Simplifies the meshes provided in the "objectMeshPairs" argument and assigns the simplified meshes to the corresponding objects. Any errors are thrown as exceptions with relevant information. Please note that the method won't simplify the object if the simplification strength provided in the SimplificationOptions is close to 0.

static List< Mesh > SimplifyMeshes (List< Mesh > meshesToSimplify, SimplificationOptions simplification ← Options, Action< Mesh > OnEachMeshSimplified)

Simplifies the meshes provided in the "meshesToSimplify" argument and returns the simplified meshes in a new list. Any errors are thrown as exceptions with relevant information. Please note that the returned list of simplified meshes doesn't guarantee the same order of meshes as supplied in the "meshesToSimplify" list. Please note that preservation spheres don't work with this method.

static ObjectMeshPairs GetObjectMeshPairs (GameObject forObject, bool includeInactive)

This method returns a specialized DataStructure for the provided object. The key is a reference to a GameObject and the value is a MeshRendererPair which contains a reference to the mesh attached to the GameObject (key) and the type of mesh (Skinned or static).

static void CombineMeshesInGameObject (GameObject forObject, bool skipInactiveRenderers, Action
 string, string > OnError, MeshCombineTarget combineTarget=MeshCombineTarget.SkinnedAndStatic)

Tries to combine meshes nested under the provided GameObject. Please note that the method modifies the provided gameobject and it's children hierarchy.

static GameObject CombineMeshesFromRenderers (Transform rootTransform, MeshRenderer[] original
 — MeshRenderers, SkinnedMeshRenderer[] originalSkinnedMeshRenderers, Action< string, string > OnError)

Tries to combine the static and skinned meshes provided in the arguments.

 static void ConvertSkinnedMeshesInGameObject (GameObject forObject, bool skipInactiveRenderers, Action< string, string > OnError)

Converts all skinned meshes in the provided GameObject to non skinned/static meshes and also changes the corresponding renderer components. Please note that this method modifies the original GameObject and it's child hierarchy.

static Tuple
 SkinnedMeshRenderer, MeshRenderer, Mesh >[] ConvertSkinnedMeshesFromRenderers
 (SkinnedMeshRenderer[] renderersToConvert, Action
 string
 OnError)

Converts all Skinned Mesh Renderers in the provided list to non simple Mesh Renderers and also changes the corresponding meshes. Pleaes note that this method doesn't modify the actualy GameObject(s) from which the provided SkinnedMeshRenderes are extracted.

static async void ImportOBJFromFileSystem (string objAbsolutePath, string texturesFolderPath, string materialsFolderPath, Action < GameObject > OnSuccess, Action < Exception > OnError, OBJImportOptions importOptions=null)

Imports a wavefront obj file provided by the absolute path. Please note that this method doesn't work on WebGL builds and will safely return.

static async void ImportOBJFromNetwork (string objURL, string objName, string diffuseTexURL, string bumpTexURL, string specularTexURL, string opacityTexURL, string materialURL, ReferencedNumeric
 float > downloadProgress, Action< GameObject > OnSuccess, Action< Exception > OnError, OBJImportOptions importOptions=null)

Downloads a wavefront obj file from the direct URI passed and imports it. You can also specify the URL for different textures associated with the model and also the URL to the linked material file. This function also works on WebGL builds.

 static async void ExportGameObjectToOBJ (GameObject toExport, string exportPath, Action OnSuccess, Action
 Exception > OnError, OBJExportOptions exportOptions=null)

Exports the provided GameObject to wavefront OBJ format with support for saving textures and materials. Please note that the method won't work on WebGL builds and will safely return.

static int CountTriangles (bool countDeep, GameObject forObject)

Counts the number of triangles in the provided GameObject. If "countDeep" is true then the method counts all the triangles considering all the nested meshes in the children hierarchies of the given GameObject.

static int CountTriangles (List< Mesh > toCount)

Counts the number of triangles in the provided meshes list.

5.6.1 Member Enumeration Documentation

5.6.1.1 MeshCombineTarget

```
enum BrainFailProductions.PolyFewRuntime.PolyfewRuntime.MeshCombineTarget [strong]
```

An enum that is used to specify what kind of meshes to combine

5.6.2 Member Function Documentation

5.6.2.1 CombineMeshesFromRenderers()

Tries to combine the static and skinned meshes provided in the arguments.

Parameters

rootTransform	The root transform to create the combined meshes based from, essentially the origin of the new mesh.
originalMeshRenderers	The list of MeshRenderer components whose corresponding meshes to combine.
OnError	The method to invoke when an error occurs. The method is passed the error title and the description of the error.
originalSkinnedMeshRenderers	The list of SkinnedMeshRenderer components whose corresponding meshes to combine.

Returns

A new GameObject with the combined meshes, or returns null in case of any problem.

5.6.2.2 CombineMeshesInGameObject()

Tries to combine meshes nested under the provided GameObject. Please note that the method modifies the provided gameobject and it's children hierarchy.

Parameters

forObject	The object under which all the Static and Skinned meshes will be merged.
skipInactiveRenderers	Whether the child renderers of the provided objects be skipped if they are inactive.
OnError	The method to invoke when an error occurs. The method is passed the error title and the description of the error.
combineTarget	Indicates what kind of meshes to combine.

5.6.2.3 ConvertSkinnedMeshesFromRenderers()

Converts all Skinned Mesh Renderers in the provided list to non simple Mesh Renderers and also changes the corresponding meshes. Pleaes note that this method doesn't modify the actualy GameObject(s) from which the provided SkinnedMeshRenderes are extracted.

Parameters

renderersToConvert	The list of SkinnedMeshRenderers to convert.
OnError	The method to invoke when an error occurs. The method is passed the error title and
	the description of the error.

Returns

An array of tuples that contain the original SkinnedMeshRenderer, the corresponding converted Mesh← Renderer and the Mesh. Returns null if the operation failed.

5.6.2.4 ConvertSkinnedMeshesInGameObject()

Converts all skinned meshes in the provided GameObject to non skinned/static meshes and also changes the corresponding renderer components. Please note that this method modifies the original GameObject and it's child hierarchy.

Parameters

forObject	The game object under which all SkinnedMeshRenderers will be converted.
skipInactiveRenderers	Whether the child renderers of the provided objects be skipped if they are inactive.
OnError	The method to invoke when an error occurs. The method is passed the error title and the description of the error.

5.6.2.5 CountTriangles() [1/2]

Counts the number of triangles in the provided GameObject. If "countDeep" is true then the method counts all the triangles considering all the nested meshes in the children hierarchies of the given GameObject.

Parameters

countDeep	If true the method also counts and considers the triangles of the nested children hierarchies for the given GameObject.
forObject	The GameObject for which to count the triangles.

Returns

The total traingles summing the triangles count of all the meshes nested under the provided GameObject.

5.6.2.6 CountTriangles() [2/2]

```
static int BrainFailProductions.PolyFewRuntime.PolyfewRuntime.CountTriangles ( {\tt List< Mesh} \, > \, toCount} \, \, ) \quad [{\tt static}]
```

Counts the number of triangles in the provided meshes list.

Parameters

toCount	The list of meshes whose triangles will be counted.
---------	-----------------------------------------------------

Returns

The total triangles summing the triangles count of all the meshes in the provided list. WIII return 0 if there are no meshes in the list

5.6.2.7 ExportGameObjectToOBJ()

Exports the provided GameObject to wavefront OBJ format with support for saving textures and materials. Please note that the method won't work on WebGL builds and will safely return.

Parameters

toExport	The GameObject that will be exported.
exportPath	The path to the folder where the file will be written.
exportOptions	Some additional export options for customizing the export.
OnSuccess	The callback to be invoked on successful export.
OnError	The callback method that will be invoked when the import was not successful. The method is passed in an exception that made the task unsuccessful.

5.6.2.8 GetObjectMeshPairs()

 ${\tt static\ ObjectMeshPairs\ BrainFailProductions.PolyFewRuntime.PolyfewRuntime.GetObjectMeshPairs\ (note that the context of the context of$

```
GameObject forObject,
bool includeInactive ) [static]
```

This method returns a specialized DataStructure for the provided object. The key is a reference to a GameObject and the value is a MeshRendererPair which contains a reference to the mesh attached to the GameObject (key) and the type of mesh (Skinned or static).

Parameters

forObject	The object for which the ObjectMeshPairs is constructed.
includeInactive	If this is true then the method also considers the nested inactive children of the GameObject
	provided, otherwise it only considers the active nested children.

Returns

A specialized data structure that contains information about all the meshes nested under the provided Game \leftarrow Object.

5.6.2.9 ImportOBJFromFileSystem()

Imports a wavefront obj file provided by the absolute path. Please note that this method doesn't work on WebGL builds and will safely return.

Parameters

objAbsolutePath	The absolute path to the obj file.
texturesFolderPath	The absolute path to the folder containing the texture files associated with the model to load. If you don't want to load the associated textures or there are none then you can pass an empty or null to this argument.
materialsFolderPath	The absolute path to the folder containing the material files assoicated with the model to load. If you don't want to load the associated material or there is none then you can pass an empty or null to this argument.
OnSuccess	The callback method that will be invoked when the import was successful. The method is passed in the imported GameObject as the argument.
OnError	The callback method that will be invoked when the import was not successful. The method is passed in an exception that made the task unsuccessful.
importOptions	Specify additional import options for custom importing.

5.6.2.10 ImportOBJFromNetwork()

Downloads a wavefront obj file from the direct URI passed and imports it. You can also specify the URL for different textures associated with the model and also the URL to the linked material file. This function also works on WebGL builds.

Parameters

objURL	The direct URL to the obj file.
objName	The name for the GameObject that will represent the imported obj.
diffuseTexURL	The absolute URL to the associated Diffuse texture (Main texture). If the model has no diffuse texture on the material then you can pass in null or empty string to this parameter.
bumpTexURL	The absolute URL to the associated Bump texture (Bump map). If the model has no bump map then you can pass in null or empty string to this parameter.
specularTexURL	The absolute URL to the associated Specular texture (Reflection map). If the model has no reflection map then you can pass in null or empty string to this parameter.
opacityTexURL	The absolute URL to the associated Opacity texture (Transparency map). If the model has no transparency map then you can pass in null or empty string to this parameter.
materialURL	If the model has an associated material file (.mtl) then pass in the absolute URL to that otherwise pass a null or empty string.
downloadProgress	The object of type ReferencedNumeric of type float that is updated with the download progress percentage.
OnSuccess	The callback method that will be invoked when the import was successful. The method is passed in the imported GameObject as the argument
OnError	The callback method that will be invoked when the import was not successful. The method is passed in an exception that made the task unsuccessful.
importOptions	Specify additional import options for custom importing.

5.6.2.11 SimplifyMeshes()

Simplifies the meshes provided in the "meshesToSimplify" argument and returns the simplified meshes in a new list. Any errors are thrown as exceptions with relevant information. Please note that the returned list of simplified meshes doesn't guarantee the same order of meshes as supplied in the "meshesToSimplify" list. Please note that preservation spheres don't work with this method.

Parameters

meshesToSimplify	The list of meshes to simplify.
simplificationOptions	Provide a SimplificationOptions object which contains different parameters and rules for simplifying the meshes. Please note that preservationSphere won't work for this method.
OnEachMeshSimplified	This method will be called when a mesh is simplified. The method will be passed the original mesh that was simplified.

Returns

The list of simplified meshes.

5.6.2.12 SimplifyObjectDeep() [1/3]

```
 \begin{array}{c} {\tt static\ ObjectMeshPairs\ BrainFailProductions.PolyFewRuntime.PolyfewRuntime.SimplifyObjectDeep\ (} \\ {\tt GameObject\ } toSimplify, \\ {\tt SimplificationOptions\ } simplificationOptions\ )\ \ [{\tt static}] \end{array}
```

Simplifies the meshes nested under the given gameobject(including itself) including the full nested children hierarchy with the settings provided. Returns back a specialized data structure with the simplified meshes. Any errors are thrown as exceptions with relevant information. Please note that the method won't simplify the object if the simplification strength provided in the SimplificationOptions is close to 0.

Parameters

toSimplify	The gameobject to simplify.
simplificationOptions	Provide a SimplificationOptions object which contains different parameters and rules for simplifying the meshes.
OnEachMeshSimplified	This method will be called when a mesh is simplified. The method will be passed a gameobject whose mesh is simplified and some information about the original unsimplified mesh.

Returns

A specialized data structure that holds information about all the simplified meshes and their information and the GameObjects with which they are associated. Please note that in case the simplificationStrength was near 0 the method doesn't simplify any meshes and returns null.

5.6.2.13 SimplifyObjectDeep() [2/3]

Simplifies the provided gameobject include the full nested children hierarchy with the settings provided. Any errors are thrown as exceptions with relevant information. Please note that the method won't simplify the object if the simplification strength provided in the SimplificationOptions is close to 0.

Parameters

toSimplify	The gameobject to simplify.
simplificationOptions	Provide a SimplificationOptions object which contains different parameters and rules for simplifying the meshes.
OnEachMeshSimplified	This method will be called when a mesh is simplified. The method will be passed a gameobject whose mesh is simplified and some information about the original unsimplified mesh. If you do not want to receive this callback then you can pass null as an argument here.

Returns

The total number of triangles after simplifying the provided gameobject inlouding the nested children hierarchies. Please note that the method returns -1 if the method doesn't simplify the object.

5.6.2.14 SimplifyObjectDeep() [3/3]

Simplifies the meshes provided in the "objectMeshPairs" argument and assigns the simplified meshes to the corresponding objects. Any errors are thrown as exceptions with relevant information. Please note that the method won't simplify the object if the simplification strength provided in the SimplificationOptions is close to 0.

Parameters

objectMeshPairs	The ObjectMeshPairs data structure which holds relationship between objects and the corresponding meshes which will be simplified. You can get this structure by calling "GetObjectMeshPairs(GameObject forObject, bool includeInactive)" method.
simplificationOptions	Provide a SimplificationOptions object which contains different parameters and rules for simplifying the meshes.
OnEachMeshSimplified	This method will be called when a mesh is simplified. The method will be passed a gameobject whose mesh is simplified and some information about the original unsimplified mesh. If you do not want to receive this callback then you can pass null as an argument here.

Returns

The total number of triangles after simplifying the provided gameobject inlcuding the nested children hierarchies. Please note that the method returns -1 is the method doesn't simplify the object.

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

C:/Users/kbawa/Desktop/NEW DOCS/PolyFew/PolyfewRuntime.cs

5.7 BrainFailProductions.PolyFewRuntime.PolyfewRuntime. PreservationSphere Class Reference

This class is used to represent a preservation sphere. A preservation sphere retains the original quality of the mesh area enclosed within it while simplifying all other areas of the mesh. Please note that mesh simplification with preservation spheres might get slow.

Public Member Functions

PreservationSphere (Vector3 worldPosition, float diameter, float preservationStrength)

Public Attributes

• Vector3 worldPosition

The position of this preservation sphere in world coordinates. Please note that this position should accurately represent the center point of the sphere.

· float diameter

The diameter of this preservation sphere.

• float preservationStrength = 100

The percentage of triangles to preserve in the region enclosed by this preservation sphere.

5.7.1 Detailed Description

This class is used to represent a preservation sphere. A preservation sphere retains the original quality of the mesh area enclosed within it while simplifying all other areas of the mesh. Please note that mesh simplification with preservation spheres might get slow.

5.7.2 Member Data Documentation

5.7.2.1 diameter

 $\verb|float BrainFailProductions.PolyFewRuntime.PolyfewRuntime.PreservationSphere.diameter | \verb|float BrainFailProductions.PolyFewRuntime.PolyfewRuntime.PreservationSphere.diameter | \verb|float BrainFailProductions.PolyFewRuntime.PolyfewRuntime.PolyfewRuntime.PreservationSphere.diameter | \verb|float BrainFailProductions.PolyFewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewR$

The diameter of this preservation sphere.

5.7.2.2 preservationStrength

float BrainFailProductions.PolyFewRuntime.PolyfewRuntime.PreservationSphere.preservation \leftarrow Strength = 100

The percentage of triangles to preserve in the region enclosed by this preservation sphere.

5.7.2.3 worldPosition

Vector3 BrainFailProductions.PolyFewRuntime.PolyfewRuntime.PreservationSphere.worldPosition

The position of this preservation sphere in world coordinates. Please note that this position should accurately represent the center point of the sphere.

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

C:/Users/kbawa/Desktop/NEW DOCS/PolyFew/PolyfewRuntime.cs

5.8 BrainFailProductions.PolyFewRuntime.PolyfewRuntime. ReferencedNumeric < T > Class Template Reference

A wrapper class that holds a primitive numeric type and fakes them to act as reference types.

Public Member Functions

• ReferencedNumeric (T value)

Properties

• T Value [get, set]

5.8.1 Detailed Description

A wrapper class that holds a primitive numeric type and fakes them to act as reference types.

Template Parameters

T Any primitive numeric type. Int, float, double, byte etc

Type Constraints

T: struct

T : IComparable

T: IComparable<T>

T: IConvertible

T: IEquatable<T>

T: IFormattable

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

• C:/Users/kbawa/Desktop/NEW DOCS/PolyFew/PolyfewRuntime.cs

5.9 BrainFailProductions.PolyFewRuntime.PolyfewRuntime. SimplificationOptions Class Reference

This class holds all the available options for mesh simplification. An object of this class is needed by many of the Mesh Simplification methods for controlling the mesh simplification process.

Public Member Functions

• SimplificationOptions (float simplificationStrength, bool simplifyOptimal, bool enableSmartlink, bool recalculateNormals, bool preserveUVSeamEdges, bool preserveUVFoldoverEdges, bool preserveBorderEdges, bool regardToleranceSphere, List< PreservationSphere > preservationSpheres, bool regardCurvature, int maxIterations, float aggressiveness, bool useEdgeSort)

Public Attributes

· float simplificationStrength

The strength with which to reduce the polygons by. Greater strength results in fewer polygons but lower quality. The acceptable values are between [0-100] inclusive.

• bool simplifyMeshLossless = false

If set to true the mesh is simplified without loosing too much quality. Please note that simplify lossless cannot guarantee optimal triangle count after simplification. It's best that you specify the simplificationStrength manually and leave this to false. Also in case if this is true then the "simplificationStrength" attribute will be disregarded.

• bool enableSmartlinking = true

Smart linking links vertices that are very close to each other. This helps in the mesh simplification process where holes or other serious issues could arise. Disabling this (where not needed) can cause a minor performance gain.

• bool recalculateNormals = false

Recalculate mesh normals after simplification. Use this option if you see incorrect lighting or dark regions on the simplified mesh(es). This also recalculates the tangents afterwards.

bool preserveUVSeamEdges = false

This option (if set to true) preserves the mesh areas where the UV seams are made. These are the areas where different UV islands are formed (usually the shallow polygon conjested areas).

bool preserveUVFoldoverEdges = false

This option (if set to true) preserves UV foldover areas. Usually these are the areas where sharp edges, corners or dents are formed in the mesh or simply the areas where the mesh folds over.

bool preserveBorderEdges = false

This option (if set to true) preserves border edges of the mesh. Border edges are the edges that are unconnected and open. Preserving border edges might lead to lesser polygon reduction but can be helpful where you see serious mesh and texture distortions.

• bool regardPreservationSpheres = false

This option (if set to true) will take into account the preservation spheres (If specified in the SimplificationOptions). A preservation sphere retains the original quality of the mesh area enclosed within it while simplifying all other areas of the mesh. Please note that mesh simplification with preservation spheres might get slow.

• List< PreservationSphere > preservationSpheres = new List< PreservationSphere>()

The list of preservation spheres that dictate which areas of the mesh to preserve during simplification. This list will only be regarded if "regardPreservationSphere" option is set to true.

• bool regardCurvature = false

This option (if set to true) will take into account the discrete curvature of mesh surface during simplification. Taking surface curvature into account can result in very good quality mesh simplification, but it can slow the simplification process significantly.

• int maxIterations = 100

The maximum passes the reduction algorithm does. Higher number is more expensive but can bring you closer to your target quality. 100 is the lowest allowed value. The default value of 100 works best for most of the meshes and should not be changed.

float aggressiveness = 7

The agressiveness of the reduction algorithm to use for this LOD level. Higher number equals higher quality, but more expensive to run. Lowest value is 7. The default value of 7 works best for most of the meshes and should not be changed.

• bool useEdgeSort = false

Using edge sort can result in very good quality mesh simplification in some cases but can be a little slow to run.

5.9.1 Detailed Description

This class holds all the available options for mesh simplification. An object of this class is needed by many of the Mesh Simplification methods for controlling the mesh simplification process.

5.9.2 Member Data Documentation

5.9.2.1 aggressiveness

float BrainFailProductions.PolyFewRuntime.PolyfewRuntime.SimplificationOptions.aggressiveness
= 7

The agressiveness of the reduction algorithm to use for this LOD level. Higher number equals higher quality, but more expensive to run. Lowest value is 7. The default value of 7 works best for most of the meshes and should not be changed.

5.9.2.2 enableSmartlinking

bool BrainFailProductions.PolyFewRuntime.PolyfewRuntime.SimplificationOptions.enableSmartlinking
= true

Smart linking links vertices that are very close to each other. This helps in the mesh simplification process where holes or other serious issues could arise. Disabling this (where not needed) can cause a minor performance gain.

5.9.2.3 maxIterations

int BrainFailProductions.PolyFewRuntime.PolyfewRuntime.SimplificationOptions.maxIterations =
100

The maximum passes the reduction algorithm does. Higher number is more expensive but can bring you closer to your target quality. 100 is the lowest allowed value. The default value of 100 works best for most of the meshes and should not be changed.

5.9.2.4 preservationSpheres

List<PreservationSphere> BrainFailProductions.PolyFewRuntime.PolyfewRuntime.Simplification← Options.preservationSpheres = new List<PreservationSphere>()

The list of preservation spheres that dictate which areas of the mesh to preserve during simplification. This list will only be regarded if "regardPreservationSphere" option is set to true.

5.9.2.5 preserveBorderEdges

 $\verb|bool BrainFailProductions.PolyFewRuntime.PolyfewRuntime.SimplificationOptions.preserveBorder \leftarrow \\ \verb|Edges = false| \\$

This option (if set to true) preserves border edges of the mesh. Border edges are the edges that are unconnected and open. Preserving border edges might lead to lesser polygon reduction but can be helpful where you see serious mesh and texture distortions.

5.9.2.6 preserveUVFoldoverEdges

 $\label{lem:bool_bool} \begin{tabular}{ll} BrainFailProductions.PolyFewRuntime.PolyfewRuntime.SimplificationOptions.preserveUV \leftarrow FoldoverEdges = false \end{tabular}$

This option (if set to true) preserves UV foldover areas. Usually these are the areas where sharp edges, corners or dents are formed in the mesh or simply the areas where the mesh folds over.

5.9.2.7 preserveUVSeamEdges

 $\verb|bool BrainFailProductions.PolyFewRuntime.PolyfewRuntime.SimplificationOptions.preserveUVSeam \leftarrow \\ \verb|Edges = false| \\$

This option (if set to true) preserves the mesh areas where the UV seams are made. These are the areas where different UV islands are formed (usually the shallow polygon conjested areas).

5.9.2.8 recalculateNormals

 $\verb|bool BrainFailProductions.PolyFewRuntime.PolyfewRuntime.SimplificationOptions.recalculate \leftarrow \\ \verb|Normals = false| \\$

Recalculate mesh normals after simplification. Use this option if you see incorrect lighting or dark regions on the simplified mesh(es). This also recalculates the tangents afterwards.

5.9.2.9 regardCurvature

bool BrainFailProductions.PolyFewRuntime.PolyfewRuntime.SimplificationOptions.regardCurvature
= false

This option (if set to true) will take into account the discrete curvature of mesh surface during simplification. Taking surface curvature into account can result in very good quality mesh simplification, but it can slow the simplification process significantly.

5.9.2.10 regardPreservationSpheres

 $bool\ BrainFail Productions. Poly Few Runtime. Poly few Runtime. Simplification Options. regard Preservation \\ \Leftrightarrow Spheres = false$

This option (if set to true) will take into account the preservation spheres (If specified in the SimplificationOptions). A preservation sphere retains the original quality of the mesh area enclosed within it while simplifying all other areas of the mesh. Please note that mesh simplification with preservation spheres might get slow.

5.9.2.11 simplificationStrength

 $float\ BrainFailProductions. PolyFewRuntime. PolyfewRuntime. Simplification Options. simplification {\longleftrightarrow} Strength$

The strength with which to reduce the polygons by. Greater strength results in fewer polygons but lower quality. The acceptable values are between [0-100] inclusive.

5.9.2.12 simplifyMeshLossless

 $\verb|bool BrainFailProductions.PolyFewRuntime.PolyfewRuntime.SimplificationOptions.simplifyMesh \leftarrow \\ \verb|Lossless| = false \\ |$

If set to true the mesh is simplified without loosing too much quality. Please note that simplify lossless cannot guarantee optimal triangle count after simplification. It's best that you specify the simplificationStrength manually and leave this to false. Also in case if this is true then the "simplificationStrength" attribute will be disregarded.

5.9.2.13 useEdgeSort

bool BrainFailProductions.PolyFewRuntime.PolyfewRuntime.SimplificationOptions.useEdgeSort =
false

Using edge sort can result in very good quality mesh simplification in some cases but can be a little slow to run.

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

• C:/Users/kbawa/Desktop/NEW DOCS/PolyFew/PolyfewRuntime.cs

Index

action

```
BrainFailProductions.PolyFewRuntime.PolyfewRuntime.CuexquoMTeeshtAcctionntstructure,
                                                                                                          generateMaterials, 13
aggressiveness
                                                                                                 BrainFailProductions.PolyFewRuntime.PolyfewRuntime.OBJImportOptions
        BrainFailProductions.PolyFewRuntime.PolyfewRuntime.SimplificationOptions,
                 27
                                                                                                 BrainFailProductions.PolyFewRuntime.PolyfewRuntime.PreservationSphe
applyPosition
                                                                                                                  24
        BrainFailProductions.PolyFewRuntime.PolyfewRuntime.OBdiamperetQptions,
                                                                                                         preservationStrength, 24
applyRotation
                                                                                                         worldPosition, 24
        BrainFailProductions.PolyFewRuntime.PolyfewRuntime.PolyfewRuntime.PolyfewRuntime.ReferencedNumer
                                                                                                                  T > , 25
applyScale
                                                                                                 Brain Fail Productions. Poly Few Runtime. Poly few Runtime. Simplification Option (Control of the Control of Control of
        BrainFailProductions.PolyFewRuntime.PolyfewRuntime.OBJExportOptions,
                 13
                                                                                                          aggressiveness, 27
attachedToMeshFilter
                                                                                                         enableSmartlinking, 27
         BrainFailProductions.PolyFewRuntime.PolyfewRuntime.Meត្តាអ្នក្សាទៅ
                                                                                                          preservationSpheres, 27
                                                                                                         preserveBorderEdges, 28
BrainFailProductions, 7
                                                                                                         preserveUVFoldoverEdges, 28
BrainFailProductions.PolyFewRuntime, 7
                                                                                                         preserveUVSeamEdges, 28
BrainFailProductions.PolyFewRuntime.PolyfewRuntime,
                                                                                                         recalculateNormals, 28
                                                                                                         regardCurvature, 28
        CombineMeshesFromRenderers, 16
                                                                                                         regardPreservationSpheres, 29
        CombineMeshesInGameObject, 17
                                                                                                         simplificationStrength, 29
        ConvertSkinnedMeshesFromRenderers, 17
                                                                                                         simplifyMeshLossless, 29
        ConvertSkinnedMeshesInGameObject, 18
                                                                                                         useEdgeSort, 29
        CountTriangles, 18, 19
         ExportGameObjectToOBJ, 19
                                                                                                 CombineMeshesFromRenderers
        GetObjectMeshPairs, 19
                                                                                                          BrainFailProductions.PolyFewRuntime.PolyfewRuntime,
        ImportOBJFromFileSystem, 20
        ImportOBJFromNetwork, 20
                                                                                                 CombineMeshesInGameObject
        MeshCombineTarget, 16
                                                                                                         BrainFailProductions.PolyFewRuntime.PolyfewRuntime,
        SimplifyMeshes, 21
        SimplifyObjectDeep, 22, 23
BrainFailProductions.PolyFewRuntime.PolyfewRuntime.CustonY@rtSkinnedMeshesFromRenderers
                                                                                                          BrainFailProductions.PolyFewRuntime.PolyfewRuntime,
        action, 9
                                                                                                 ConvertSkinnedMeshesInGameObject
        gameObject, 10
                                                                                                          BrainFailProductions.PolyFewRuntime.PolyfewRuntime,
        meshRendererPair, 10
BrainFailProductions.PolyFewRuntime.PolyfewRuntime.MeshRendererair,
                                                                                                 CountTriangles
                                                                                                          BrainFailProductions.PolyFewRuntime.PolyfewRuntime,
        attachedToMeshFilter, 11
                                                                                                                  18, 19
        mesh, 11
BrainFailProductions.PolyFewRuntime.PolyfewRuntime.ObjectMeshPairs,
                                                                                                 diameter
BrainFailProductions.PolyFewRuntime.PolyfewRuntime.OBJExpBrainFspductions.PolyFewRuntime.PolyfewRuntime.Preservations
                 12
        applyPosition, 12
        applyRotation, 13
                                                                                                 enableSmartlinking
```

applyScale, 13

32 INDEX

BrainFailProductions.PolyFewRuntime.PolyfewRuntime.SimplificationPolyfewRuntime.PolyfewRuntime.Simplification ExportGameObjectToOBJ regardPreservationSpheres BrainFailProductions.PolyFewRuntime.PolyfewRuntime.Simplification BrainFailProductions.PolyFewRuntime.PolyfewRuntime, 19 exportTextures BrainFailProductions.PolyFewRuntime.PolyfewRuntimeinDelifeationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationStationSt BrainFailProductions.PolyFewRuntime.PolyfewRuntime.Simplification 29 SimplifyMeshes gameObject BrainFailProductions.PolyFewRuntime.PolyfewRuntime.CustoninfailProductions.RolleFewRuntime.PolyfewRuntime, simplifyMeshLossless generateMaterials BrainFailProductions.PolyFewRuntime.PolyfewRuntime.OBBExipFaitDyndustions.PolyFewRuntime.PolyfewRuntime.Simplification 29 SimplifyObjectDeep GetObjectMeshPairs BrainFailProductions.PolyFewRuntime.PolyfewRuntime, BrainFailProductions.PolyFewRuntime.PolyfewRuntime, 22, 23 19 useEdgeSort ImportOBJFromFileSystem BrainFailProductions.PolyFewRuntime.PolyfewRuntime.Simplification BrainFailProductions.PolyFewRuntime.PolyfewRuntime. 29 20 ImportOBJFromNetwork BrainFailProductions.PolyFewRuntime.PolyfewRuntime.Preservations 24 maxIterations BrainFailProductions.PolyFewRuntime.PolyfewRuntime.SimplificationOptions, mesh Brain Fail Productions. Poly Few Runtime. Poly few Runtime. Mesh Renderer Pair, and the production of the production o11 MeshCombineTarget BrainFailProductions.PolyFewRuntime.PolyfewRuntime, 16 meshRendererPair BrainFailProductions.PolyFewRuntime.PolyfewRuntime.CustomMeshActionStructure, preservationSpheres Brain Fail Productions. Poly Few Runtime. Poly few Runtime. Simplification Options,preservationStrength BrainFailProductions.PolyFewRuntime.PolyfewRuntime.PreservationSphere, 24 preserveBorderEdges BrainFailProductions.PolyFewRuntime.PolyfewRuntime.SimplificationOptions, preserveUVFoldoverEdges BrainFailProductions.PolyFewRuntime.PolyfewRuntime.SimplificationOptions, preserveUVSeamEdges BrainFailProductions.PolyFewRuntime.PolyfewRuntime.SimplificationOptions. recalculateNormals BrainFailProductions.PolyFewRuntime.PolyfewRuntime.SimplificationOptions, regardCurvature