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### 最新评论

1. Re:C#自定义控件：WinForm将它它应用程序窗体嵌入自己内部

## Unity3D核心类型一览

### 阅读目录(Content)

- [UnityEngine.Object](#)
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- [UnityEngine.Texture](#)
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## Unity3D核心类型一览



```
@vczz Action appIdleAction
= null; EventHandler appIdleE
vent = null; public App.....
```

--39

2. Re:C#自定义控件：WinForm将其它应用程序窗体嵌入自己内部

@
好的，我自己再研究下下。

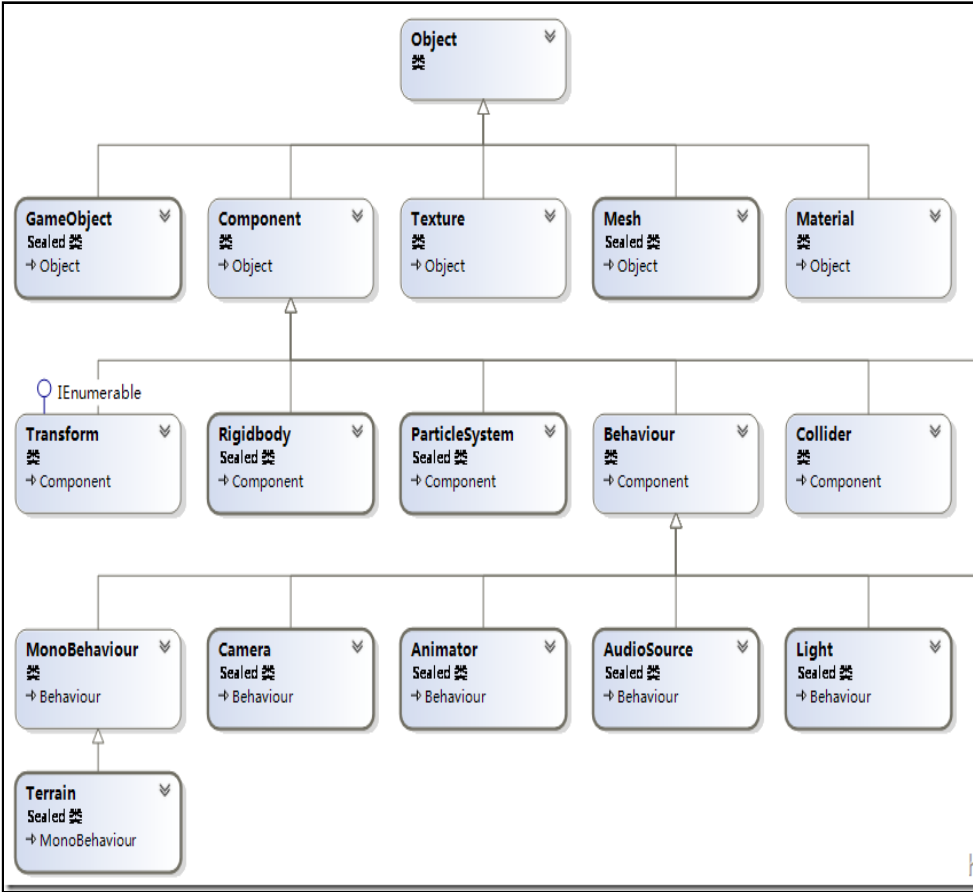
--VCZZ

3. Re:C#自定义控件：WinForm将其它应用程序窗体嵌入自己内部

@vczz引用 祝威你好，又是我，不好意思又来打扰你了。我在用你的软件时，发现如果嵌入的窗口比较大的话，往往显示的位置很奇怪，除非最大化，不然可能都看不到要嵌入的窗口在哪里（最大化后才能看到一部.....

--BIT祝威

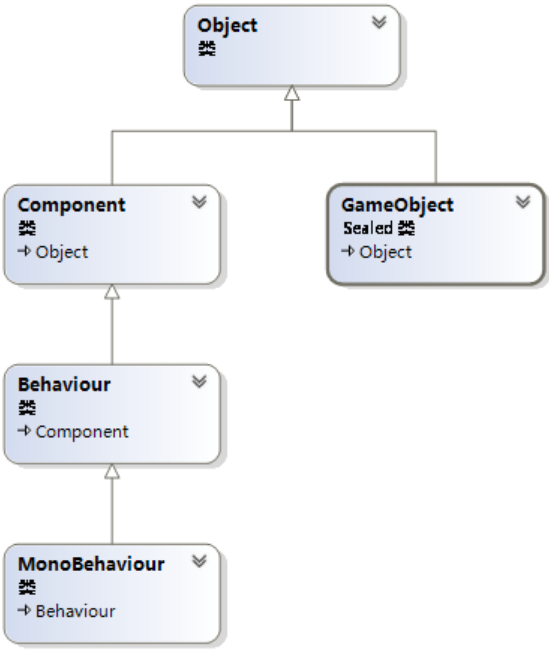
4. Re:C#自定义控件：WinForm将其它应用程序窗体嵌入自己内部




本文记录了Unity3D的最基本的核心类型。包括Object、GameObject、Component、Transform、Behaviour、Renderer、Collider、Rigidbody、Camera、Light、MonoBehaviour等。




需要展开了public类型方法的类图请点这里  
( <http://www.cnblogs.com/bitzhuwei/gallery/image/152116.html> ) 。

最核心的类型就这几个：Object、GameObject、Component、Behaviour、MonoBehaviour。



需要展开了这几个public类型方法的类图请点这里  
( <http://www.cnblogs.com/bitzhuwei/gallery/ima>

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内嵌程序

所有Unity3D的基类。

持有实例的ID信息。

实现了静态方法：增（Instantiate）删（Destroy）查（FindObjectsOfType）

Any public variable you make that derives from Object gets shown in the inspector as a drop target, allowing you to set the value from the GUI.

View Code

[回到顶部\(go to top\)](#)

## UnityEngine.GameObject

```
/// <summary>
/// game object contains components.
/// <para>Add Component</para>
/// <para>Find Component</para>
/// <para>common components</para>
/// <para>BroadcastMessage在这个游戏物体及其子物体的所有MonoBehaviour中调用名称为methodName的方法.</para>
/// </summary>
```

`GameObject.active` is obsolete. Use `GameObject.SetActive()`, `GameObject.activeSelf` (read only) or `GameObject.activeInHierarchy` (read only). `gameObject.SetActiveRecursively()` is obsolete. Use `GameObject.SetActive()`, which is now inherited by children.

View Code

[回到顶部\(go to top\)](#)

## UnityEngine.Component

所有的Component，都会指向其所属的GameObject。

在脚本中

用 `this.renderer`, `this.transform`, `this.GetComponent(XXX)`, `this.gameObject` 与 `this.gameObject.renderer`, `this.gameObject.transform`, `this.gameObject.GetComponent(XXX)`, `this.gameObject.gameObject` 的结果是完全一样的。这意味着，你用 `this.renderer.transform.renderer.collider` 这种写法，仍然可以得到 `this.collider`。（在这些组件不是 `null` 的前提下）

the `active` property is deprecated on components. Please use `gameObject.active` instead. If you meant to enable / disable a single component use `enabled` instead.

`GameObject.active` is obsolete. Use `GameObject.SetActive()`, `GameObject.activeSelf` (read only) or `GameObject.activeInHierarchy` (read only).

View Code

```
1 //this.gameObject.active = false;//GameObject.active is obsolete
2 this.gameObject.SetActive(false);// ! use
3 this.gameObject.activeSelf = false;//read
4 this.gameObject.activeInHierarchy = false;
5
```

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再次嵌入 句柄嵌入 handle

--VCZZ

5. Re:C#自定义控件：WinForm将其它应用程序窗体嵌入自己内部

祝威你好，又是我，不好意思又来打扰你了。我在用你的软件时，发现如果嵌入的窗口比较大的话，往往显示的位置很奇怪，除非最大化，不然可能都看不到要嵌入的窗口在哪里（最大化后才能看到一部分），而我在看你的源码.....

--VCZZ

阅读排行榜

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4. [Unity3D入门]分享一个自制的入门级游戏项目"坦克狙击手"(103)
5. CSharpGL(0)一个易学易用的C#版OpenGL(48)

```
6 //this.active = false;//Component.active is obsolete
7 this.transform.active = false;//cannot disable singly
8 this.particleSystem.active = false;//cannot disable singly
9 this.rigidbody.active = false;//cannot disable singly
10
11 this.GetComponent<TestEqual>().enabled = false;//work on single behaviour
12 this.renderer.enabled = false;//work on single renderer
13 this.collider.enabled = false;//work on single collider
```

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UnityEngine.Texture

```
1 namespace UnityEngine
2 {
3     using System;
4     using System.Runtime.CompilerServices;
5     using System.Runtime.InteropServices;
6
7     public class Texture : UnityEngine.Object
8     {
9         [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
10         public extern int GetNativeTextureID();
11         [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
12         public extern IntPtr GetNativeTexturePtr();
13         [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
14         private static extern int Internal_GetHeight(Texture mono);
15         [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
16         private static extern void Internal_GetTexelSize(Texture tex, out Vector2
17         output);
18         [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
19         private static extern int Internal_GetWidth(Texture mono);
20         [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
21         public static extern void SetGlobalAnisotropicFilteringLimits(int forcedMin,
22         int globalMax);
23
24         public int anisoLevel { [MethodImpl(MethodImplOptions.InternalCall),
25         WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
26         set; }
27
28         public static AnisotropicFiltering anisotropicFiltering {
29         [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get;
30         [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] set; }
31
32         public FilterMode filterMode { [MethodImpl(MethodImplOptions.InternalCall),
33         WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
34         set; }
35
36         public virtual int height
37         {
38             get
39             {
40             }
```

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```
32         return Internal_GetHeight(this);
33     }
34     set
35     {
36         throw new Exception("not implemented");
37     }
38 }
39
40     public static int masterTextureLimit {
41 [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get;
42 [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] set; }
43
44     public float mipMapBias { [MethodImpl(MethodImplOptions.InternalCall),
45 WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
46 set; }
47
48     public Vector2 texelSize
49     {
50         get
51         {
52             Vector2 vector;
53             Internal_GetTexelSize(this, out vector);
54             return vector;
55         }
56     }
57
58     public virtual int width
59     {
60         get
61         {
62             return Internal_GetWidth(this);
63         }
64         set
65         {
66             throw new Exception("not implemented");
67         }
68     }
69
70     public TextureWrapMode wrapMode {
71 [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get;
72 [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] set; }
73
74 }
```



[回到顶部\(go to top\)](#)

UnityEngine.Mesh

```
1 namespace UnityEngine
2 {
3     using System;
4     using System.Runtime.CompilerServices;
```

 推荐: 1



```

5 using System.Runtime.InteropServices;
6 using UnityEngine.Internal;
7
8 public sealed class Mesh : UnityEngine.Object
9 {
10     public Mesh()
11     {
12         Internal_Create(this);
13     }
14
15     [ExcludeFromDocs]
16     public void Clear()
17     {
18         bool keepVertexLayout = true;
19         this.Clear(keepVertexLayout);
20     }
21
22     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
23     public extern void Clear([DefaultValue("true")] bool keepVertexLayout);
24     [ExcludeFromDocs]
25     public void CombineMeshes(CombineInstance[] combine)
26     {
27         bool useMatrices = true;
28         bool mergeSubMeshes = true;
29         this.CombineMeshes(combine, mergeSubMeshes, useMatrices);
30     }
31
32     [ExcludeFromDocs]
33     public void CombineMeshes(CombineInstance[] combine, bool mergeSubMeshes)
34     {
35         bool useMatrices = true;
36         this.CombineMeshes(combine, mergeSubMeshes, useMatrices);
37     }
38
39     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
40     public extern void CombineMeshes(CombineInstance[] combine,
41     [DefaultValue("true")] bool mergeSubMeshes, [DefaultValue("true")] bool useMatrices);
42     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
43     public extern int GetBlendShapeIndex(string blendShapeName);
44     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
45     public extern string GetBlendShapeName(int index);
46     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
47     public extern int[] GetIndices(int submesh);
48     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
49     public extern MeshTopology GetTopology(int submesh);
50     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
51     public extern int[] GetTriangles(int submesh);
52     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall, Obsolete("Use
53     GetTriangles instead. Internally this function converts a list of triangles to a strip,
54     so it might be slow, it might be a mess.")]
55     public extern int[] GetTriangleStrip(int submesh);
56     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
57     private static extern void Internal_Create([Writable] Mesh mono);
58     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
59     private extern void INTERNAL_get_bounds(out Vector3[] bounds);
60     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
61     private extern void INTERNAL_set_bounds(Vector3[] bounds);
62     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]

```

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```

60     public extern void MarkDynamic();
61     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
62     public extern void Optimize();
63     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
64     public extern void RecalculateBounds();
65     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
66     public extern void RecalculateNormals();
67     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
68     public extern void SetIndices(int[] indices, MeshTopology topology, int
submesh);
69     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
70     public extern void SetTriangles(int[] triangles, int submesh);
71     [MethodImpl(MethodImplOptions.InternalCall), Obsolete("Use SetTriangles
instead. Internally this function will convert the triangle strip to a list of triangles
anyway."), WrapperlessIcall]
72     public extern void SetTriangleStrip(int[] triangles, int submesh);
73     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
74     public extern void UploadMeshData(bool markNoLoggerReadable);
75
76     public Matrix4x4[] bindposes { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
set; }
77
78     public int blendShapeCount { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; }
79
80     public BoneWeight[] boneWeights {
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get;
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] set; }
81
82     public Bounds bounds
83     {
84         get
85         {
86             Bounds bounds;
87             this.INTERNAL_get_bounds(out bounds);
88             return bounds;
89         }
90         set
91         {
92             this.INTERNAL_set_bounds(ref value);
93         }
94     }
95
96     internal bool canAccess { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; }
97
98     public Color[] colors { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
set; }
99
100    public Color32[] colors32 { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
set; }
101
102    public bool isReadable { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; }
103

```



```
104         public Vector3[] normals { [MethodImpl(MethodImplOptions.InternalCall),  
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]  
set; }  
105  
106         public int subMeshCount { [MethodImpl(MethodImplOptions.InternalCall),  
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]  
set; }  
107  
108         public Vector4[] tangents { [MethodImpl(MethodImplOptions.InternalCall),  
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]  
set; }  
109  
110         public int[] triangles { [MethodImpl(MethodImplOptions.InternalCall),  
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]  
set; }  
111  
112         public Vector2[] uv { [MethodImpl(MethodImplOptions.InternalCall),  
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]  
set; }  
113  
114         public Vector2[] uv1  
115         {  
116             get  
117             {  
118                 return this.uv2;  
119             }  
120             set  
121             {  
122                 this.uv2 = value;  
123             }  
124         }  
125  
126         public Vector2[] uv2 { [MethodImpl(MethodImplOptions.InternalCall),  
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]  
set; }  
127  
128         public int vertexCount { [MethodImpl(MethodImplOptions.InternalCall),  
WrapperlessIcall] get; }  
129  
130         public Vector3[] vertices { [MethodImpl(MethodImplOptions.InternalCall),  
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]  
set; }  
131     }  
132 }
```

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## UnityEngine.Material



```
1 namespace UnityEngine  
2 {  
3     using System;
```





```
4 using System.Runtime.CompilerServices;
5 using System.Runtime.InteropServices;
6 using UnityEngine.Internal;
7
8 public class Material : UnityEngine.Object
9 {
10     public Material(string contents)
11     {
12         Internal_CreateWithString(this, contents);
13     }
14
15     public Material(Material source)
16     {
17         Internal_CreateWithMaterial(this, source);
18     }
19
20     public Material(Shader shader)
21     {
22         Internal_CreateWithShader(this, shader);
23     }
24
25     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
26     public extern void CopyPropertiesFromMaterial(Material mat);
27     [Obsolete("Use the Material constructor instead.")]
28     public static Material Create(string scriptContents)
29     {
30         return new Material(scriptContents);
31     }
32
33     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
34     public extern void DisableKeyword(string keyword);
35     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
36     public extern void EnableKeyword(string keyword);
37     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
38     public extern Color GetColor(int nameID);
39     public Color GetColor(string propertyName)
40     {
41         return this.GetColor(Shader.PropertyToID(propertyName));
42     }
43
44     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
45     public extern float GetFloat(int nameID);
46     public float GetFloat(string propertyName)
47     {
48         return this.GetFloat(Shader.PropertyToID(propertyName));
49     }
50
51     public int GetInt(int nameID)
52     {
53         return (int) this.GetFloat(nameID);
54     }
55
56     public int GetInt(string propertyName)
57     {
58         return (int) this.GetFloat(propertyName);
59     }
60
61     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
```



```
62     public extern Matrix4x4 GetMatrix(int nameID);
63     public Matrix4x4 GetMatrix(string propertyName)
64     {
65         return this.GetMatrix(Shader.PropertyToID(propertyName));
66     }
67
68     [ExcludeFromDocs]
69     public string GetTag(string tag, bool searchFallbacks)
70     {
71         string defaultValue = string.Empty;
72         return this.GetTag(tag, searchFallbacks, defaultValue);
73     }
74
75     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
76     public extern string GetTag(string tag, bool searchFallbacks,
77 [DefaultValue("\"\"")] string defaultValue);
78     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
79     public extern Texture GetTexture(int nameID);
80     public Texture GetTexture(string propertyName)
81     {
82         return this.GetTexture(Shader.PropertyToID(propertyName));
83     }
84
85     public Vector2 GetTextureOffset(string propertyName)
86     {
87         Vector2 vector;
88         Internal_GetTextureOffset(this, propertyName, out vector);
89         return vector;
90     }
91
92     public Vector2 GetTextureScale(string propertyName)
93     {
94         Vector2 vector;
95         Internal_GetTextureScale(this, propertyName, out vector);
96         return vector;
97     }
98
99     public Vector4 GetVector(int nameID)
100    {
101        Color color = this.GetColor(nameID);
102        return new Vector4(color.r, color.g, color.b, color.a);
103    }
104
105    public Vector4 GetVector(string propertyName)
106    {
107        Color color = this.GetColor(propertyName);
108        return new Vector4(color.r, color.g, color.b, color.a);
109    }
110
111    [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
112    public extern bool HasProperty(int nameID);
113    public bool HasProperty(string propertyName)
114    {
115        return this.HasProperty(Shader.PropertyToID(propertyName));
116    }
117
118    [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
119    private static extern void INTERNAL_CALL_GetColor(ref Color color, int nameID);
```



```

ref Color color);
119     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
120     private static extern void INTERNAL_CALL_SetMatrix(Material self, int
nameID, ref Matrix4x4 matrix);
121     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
122     private static extern void INTERNAL_CALL_SetTextureOffset(Material self,
string propertyName, ref Vector2 offset);
123     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
124     private static extern void INTERNAL_CALL_SetTextureScale(Material self,
string propertyName, ref Vector2 scale);
125     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
126     private static extern void Internal_CreateWithMaterial([Writable] Material
mono, Material source);
127     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
128     private static extern void Internal_CreateWithShader([Writable] Material
mono, Shader shader);
129     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
130     private static extern void Internal_CreateWithString([Writable] Material
mono, string contents);
131     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
132     private static extern void Internal_GetTextureOffset(Material mat, string
name, out Vector2 output);
133     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
134     private static extern void Internal_GetTextureScale(Material mat, string
name, out Vector2 output);
135     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
136     public extern void Lerp(Material start, Material end, float t);
137     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
138     public extern void SetBuffer(string propertyName, ComputeBuffer buffer);
139     public void SetColor(int nameID, Color color)
140     {
141         INTERNAL_CALL_SetColor(this, nameID, ref color);
142     }
143
144     public void SetColor(string propertyName, Color color)
145     {
146         this.SetColor(Shader.PropertyToID(propertyName), color);
147     }
148
149     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
150     public extern void SetFloat(int nameID, float value);
151     public void SetFloat(string propertyName, float value)
152     {
153         this.SetFloat(Shader.PropertyToID(propertyName), value);
154     }
155
156     public void SetInt(int nameID, int value)
157     {
158         this.SetFloat(nameID, (float) value);
159     }
160
161     public void SetInt(string propertyName, int value)
162     {
163         this.SetFloat(propertyName, (float) value);
164     }
165
166     public void SetMatrix(int nameID, Matrix4
167     {

```



```
168         INTERNAL_CALL_SetMatrix(this, nameID, ref matrix);
169     }
170
171     public void SetMatrix(string propertyName, Matrix4x4 matrix)
172     {
173         this.SetMatrix(Shader.PropertyToID(propertyName), matrix);
174     }
175
176     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
177     public extern bool SetPass(int pass);
178     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
179     public extern void SetTexture(int nameID, Texture texture);
180     public void SetTexture(string propertyName, Texture texture)
181     {
182         this.SetTexture(Shader.PropertyToID(propertyName), texture);
183     }
184
185     public void SetTextureOffset(string propertyName, Vector2 offset)
186     {
187         INTERNAL_CALL_SetTextureOffset(this, propertyName, ref offset);
188     }
189
190     public void SetTextureScale(string propertyName, Vector2 scale)
191     {
192         INTERNAL_CALL_SetTextureScale(this, propertyName, ref scale);
193     }
194
195     public void SetVector(int nameID, Vector4 vector)
196     {
197         this.SetColor(nameID, new Color(vector.x, vector.y, vector.z,
vector.w));
198     }
199
200     public void SetVector(string propertyName, Vector4 vector)
201     {
202         this.SetColor(propertyName, new Color(vector.x, vector.y, vector.z,
vector.w));
203     }
204
205     public Color color
206     {
207         get
208         {
209             return this.GetColor("_Color");
210         }
211         set
212         {
213             this.SetColor("_Color", value);
214         }
215     }
216
217     public Texture mainTexture
218     {
219         get
220         {
221             return this.GetTexture("_MainTex");
222         }
223         set
```



```
224         {
225             this.SetTexture("_MainTex", value);
226         }
227     }
228
229     public Vector2 mainTextureOffset
230     {
231         get
232         {
233             return this.GetTextureOffset("_MainTex");
234         }
235         set
236         {
237             this.SetTextureOffset("_MainTex", value);
238         }
239     }
240
241     public Vector2 mainTextureScale
242     {
243         get
244         {
245             return this.GetTextureScale("_MainTex");
246         }
247         set
248         {
249             this.SetTextureScale("_MainTex", value);
250         }
251     }
252
253     public int passCount { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; }
254
255     public int renderQueue { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
set; }
256
257     public Shader shader { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
set; }
258
259     public string[] shaderKeywords {
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get;
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] set; }
260     }
261 }
```

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## UnityEngine.Transform

```
1 namespace UnityEngine
2 {
```

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```

3      using System;
4      using System.Collections;
5      using System.Runtime.CompilerServices;
6      using System.Runtime.InteropServices;
7      using UnityEngine.Internal;
8
9      public class Transform : Component, IEnumerable
10     {
11         protected Transform()
12         {
13         }
14
15         [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
16         public extern void DetachChildren();
17         [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
18         public extern Transform Find(string name);
19         public Transform FindChild(string name)
20         {
21             return this.Find(name);
22         }
23
24         [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
25         public extern Transform GetChild(int index);
26         [MethodImpl(MethodImplOptions.InternalCall), Obsolete("use
Transform.childCount instead."), WrapperlessICall]
27         public extern int GetChildCount();
28         public IEnumerator GetEnumerator()
29         {
30             return new Enumerator(this);
31         }
32
33         [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
34         public extern int GetSiblingIndex();
35         [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
36         private static extern Vector3
INTERNAL_CALL_InverseTransformDirection(Transform self, ref Vector3 direction);
37         [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
38         private static extern Vector3 INTERNAL_CALL_InverseTransformPoint(Transform
self, ref Vector3 position);
39         [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
40         private static extern Vector3 INTERNAL_CALL_InverseTransformVector(Transform
self, ref Vector3 vector);
41         [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
42         private static extern void INTERNAL_CALL_LookAt(Transform self, ref Vector3
worldPosition, ref Vector3 worldUp);
43         [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
44         private static extern void INTERNAL_CALL_RotateAround(Transform self, ref
Vector3 axis, float angle);
45         [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
46         private static extern void INTERNAL_CALL_RotateAroundInternal(Transform
self, ref Vector3 axis, float angle);
47         [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
48         private static extern void INTERNAL_CALL_RotateAroundLocal(Transform
ref Vector3 axis, float angle);
49         [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
50         private static extern Vector3 INTERNAL_CALL_RotateAroundLocal(Transform
self, ref Vector3 direction);
51         [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]

```



```

52     private static extern Vector3 INTERNAL_CALL_TransformPoint(Transform self,
ref Vector3 position);
53     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
54     private static extern Vector3 INTERNAL_CALL_TransformVector(Transform self,
ref Vector3 vector);
55     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
56     private extern void INTERNAL_get_localEulerAngles(out Vector3 value);
57     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
58     private extern void INTERNAL_get_localPosition(out Vector3 value);
59     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
60     private extern void INTERNAL_get_localRotation(out Quaternion value);
61     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
62     private extern void INTERNAL_get_localScale(out Vector3 value);
63     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
64     private extern void INTERNAL_get_localToWorldMatrix(out Matrix4x4 value);
65     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
66     private extern void INTERNAL_get_lossyScale(out Vector3 value);
67     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
68     private extern void INTERNAL_get_position(out Vector3 value);
69     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
70     private extern void INTERNAL_get_rotation(out Quaternion value);
71     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
72     private extern void INTERNAL_get_worldToLocalMatrix(out Matrix4x4 value);
73     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
74     private extern void INTERNAL_set_localEulerAngles(ref Vector3 value);
75     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
76     private extern void INTERNAL_set_localPosition(ref Vector3 value);
77     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
78     private extern void INTERNAL_set_localRotation(ref Quaternion value);
79     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
80     private extern void INTERNAL_set_localScale(ref Vector3 value);
81     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
82     private extern void INTERNAL_set_position(ref Vector3 value);
83     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
84     private extern void INTERNAL_set_rotation(ref Quaternion value);
85     public Vector3 InverseTransformDirection(Vector3 direction)
86     {
87         return INTERNAL_CALL_InverseTransformDirection(this, ref direction);
88     }
89
90     public Vector3 InverseTransformDirection(float x, float y, float z)
91     {
92         return this.InverseTransformDirection(new Vector3(x, y, z));
93     }
94
95     public Vector3 InverseTransformPoint(Vector3 position)
96     {
97         return INTERNAL_CALL_InverseTransformPoint(this, ref position);
98     }
99
100    public Vector3 InverseTransformPoint(float x, float y, float z)
101    {
102        return this.InverseTransformPoint(new Vector3(x, y, z));
103    }
104
105    public Vector3 InverseTransformVector(Vector3 vector)
106    {
107        return INTERNAL_CALL_InverseTransformVector(this, ref vector);

```



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```

108     }
109
110     public Vector3 InverseTransformVector(float x, float y, float z)
111     {
112         return this.InverseTransformVector(new Vector3(x, y, z));
113     }
114
115     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
116     public extern bool IsChildOf(Transform parent);
117     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
118     internal extern bool IsNonUniformScaleTransform();
119     [ExcludeFromDocs]
120     public void LookAt(Transform target)
121     {
122         Vector3 up = Vector3.up;
123         this.LookAt(target, up);
124     }
125
126     [ExcludeFromDocs]
127     public void LookAt(Vector3 worldPosition)
128     {
129         Vector3 up = Vector3.up;
130         INTERNAL_CALL_LookAt(this, ref worldPosition, ref up);
131     }
132
133     public void LookAt(Transform target, [DefaultValue("Vector3.up")] Vector3
worldUp)
134     {
135         if (target != null)
136         {
137             this.LookAt(target.position, worldUp);
138         }
139     }
140
141     public void LookAt(Vector3 worldPosition, [DefaultValue("Vector3.up")]
Vector3 worldUp)
142     {
143         INTERNAL_CALL_LookAt(this, ref worldPosition, ref worldUp);
144     }
145
146     [ExcludeFromDocs]
147     public void Rotate(Vector3 eulerAngles)
148     {
149         Space self = Space.Self;
150         this.Rotate(eulerAngles, self);
151     }
152
153     [ExcludeFromDocs]
154     public void Rotate(Vector3 axis, float angle)
155     {
156         Space self = Space.Self;
157         this.Rotate(axis, angle, self);
158     }
159
160     public void Rotate(Vector3 eulerAngles, [DefaultValue("Vector3.up")]
relativeTo)
161     {
162         Quaternion quaternion = Quaternion.Euler(eulerAngles);

```

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```

eulerAngles.z);
163         if (relativeTo == Space.Self)
164         {
165             this.localRotation *= quaternion;
166         }
167         else
168         {
169             this.rotation *= (Quaternion.Inverse(this.rotation) * quaternion) *
this.rotation;
170         }
171     }
172
173     [ExcludeFromDocs]
174     public void Rotate(float xAngle, float yAngle, float zAngle)
175     {
176         Space self = Space.Self;
177         this.Rotate(xAngle, yAngle, zAngle, self);
178     }
179
180     public void Rotate(Vector3 axis, float angle, [DefaultValue("Space.Self")]
Space relativeTo)
181     {
182         if (relativeTo == Space.Self)
183         {
184             this.RotateAroundInternal(base.transform.TransformDirection(axis),
angle * 0.01745329f);
185         }
186         else
187         {
188             this.RotateAroundInternal(axis, angle * 0.01745329f);
189         }
190     }
191
192     public void Rotate(float xAngle, float yAngle, float zAngle,
[DefaultValue("Space.Self")] Space relativeTo)
193     {
194         this.Rotate(new Vector3(xAngle, yAngle, zAngle), relativeTo);
195     }
196
197     [Obsolete("use Transform.Rotate instead.")]
198     public void RotateAround(Vector3 axis, float angle)
199     {
200         INTERNAL_CALL_RotateAround(this, ref axis, angle);
201     }
202
203     public void RotateAround(Vector3 point, Vector3 axis, float angle)
204     {
205         Vector3 position = this.position;
206         Quaternion quaternion = Quaternion.AngleAxis(angle, axis);
207         Vector3 vector2 = position - point;
208         vector2 = (Vector3) (quaternion * vector2);
209         position = point + vector2;
210         this.position = position;
211         this.RotateAroundInternal(axis, angle * 0.01745329f);
212     }
213
214     internal void RotateAroundInternal(Vector3 axis, float angle)
215     {

```



```

216         INTERNAL_CALL_RotateAroundInternal(this, ref axis, angle);
217     }
218
219     [Obsolete("use Transform.Rotate instead.")]
220     public void RotateAroundLocal(Vector3 axis, float angle)
221     {
222         INTERNAL_CALL_RotateAroundLocal(this, ref axis, angle);
223     }
224
225     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
226     internal extern void SendTransformChangedScale();
227     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
228     public extern void SetAsFirstSibling();
229     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
230     public extern void SetAsLastSibling();
231     public void SetParent(Transform parent)
232     {
233         this.SetParent(parent, true);
234     }
235
236     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
237     public extern void SetParent(Transform parent, bool worldPositionStays);
238     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
239     public extern void SetSiblingIndex(int index);
240     public Vector3 TransformDirection(Vector3 direction)
241     {
242         return INTERNAL_CALL_TransformDirection(this, ref direction);
243     }
244
245     public Vector3 TransformDirection(float x, float y, float z)
246     {
247         return this.TransformDirection(new Vector3(x, y, z));
248     }
249
250     public Vector3 TransformPoint(Vector3 position)
251     {
252         return INTERNAL_CALL_TransformPoint(this, ref position);
253     }
254
255     public Vector3 TransformPoint(float x, float y, float z)
256     {
257         return this.TransformPoint(new Vector3(x, y, z));
258     }
259
260     public Vector3 TransformVector(Vector3 vector)
261     {
262         return INTERNAL_CALL_TransformVector(this, ref vector);
263     }
264
265     public Vector3 TransformVector(float x, float y, float z)
266     {
267         return this.TransformVector(new Vector3(x, y, z));
268     }
269
270     [ExcludeFromDocs]
271     public void Translate(Vector3 translation)
272     {
273         Space self = Space.Self;

```



```
274         this.Translate(translation, self);
275     }
276
277     public void Translate(Vector3 translation, [DefaultValue("Space.Self")]
Space relativeTo)
278     {
279         if (relativeTo == Space.World)
280         {
281             this.position += translation;
282         }
283         else
284         {
285             this.position += this.TransformDirection(translation);
286         }
287     }
288
289     public void Translate(Vector3 translation, Transform relativeTo)
290     {
291         if (relativeTo != null)
292         {
293             this.position += relativeTo.TransformDirection(translation);
294         }
295         else
296         {
297             this.position += translation;
298         }
299     }
300
301     [ExcludeFromDocs]
302     public void Translate(float x, float y, float z)
303     {
304         Space self = Space.Self;
305         this.Translate(x, y, z, self);
306     }
307
308     public void Translate(float x, float y, float z,
[DefaultValue("Space.Self")] Space relativeTo)
309     {
310         this.Translate(new Vector3(x, y, z), relativeTo);
311     }
312
313     public void Translate(float x, float y, float z, Transform relativeTo)
314     {
315         this.Translate(new Vector3(x, y, z), relativeTo);
316     }
317
318     public int childCount { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; }
319
320     public Vector3 eulerAngles
321     {
322         get
323         {
324             return this.rotation.eulerAngles;
325         }
326         set
327         {
328             this.rotation = Quaternion.Euler(value);
```

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```
329     }
330 }
331
332 public Vector3 forward
333 {
334     get
335     {
336         return (Vector3) (this.rotation * Vector3.forward);
337     }
338     set
339     {
340         this.rotation = Quaternion.LookRotation(value);
341     }
342 }
343
344 public bool hasChanged { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
set; }
345
346 public Vector3 localEulerAngles
347 {
348     get
349     {
350         Vector3 vector;
351         this.INTERNAL_get_localEulerAngles(out vector);
352         return vector;
353     }
354     set
355     {
356         this.INTERNAL_set_localEulerAngles(ref value);
357     }
358 }
359
360 public Vector3 localPosition
361 {
362     get
363     {
364         Vector3 vector;
365         this.INTERNAL_get_localPosition(out vector);
366         return vector;
367     }
368     set
369     {
370         this.INTERNAL_set_localPosition(ref value);
371     }
372 }
373
374 public Quaternion localRotation
375 {
376     get
377     {
378         Quaternion quaternion;
379         this.INTERNAL_get_localRotation(out quaternion);
380         return quaternion;
381     }
382     set
383     {
384         this.INTERNAL_set_localRotation(ref value);
```



```
385     }
386 }
387
388 public Vector3 localScale
389 {
390     get
391     {
392         Vector3 vector;
393         this.INTERNAL_get_localScale(out vector);
394         return vector;
395     }
396     set
397     {
398         this.INTERNAL_set_localScale(ref value);
399     }
400 }
401
402 public Matrix4x4 localToWorldMatrix
403 {
404     get
405     {
406         Matrix4x4 matrixx;
407         this.INTERNAL_get_localToWorldMatrix(out matrixx);
408         return matrixx;
409     }
410 }
411
412 public Vector3 lossyScale
413 {
414     get
415     {
416         Vector3 vector;
417         this.INTERNAL_get_lossyScale(out vector);
418         return vector;
419     }
420 }
421
422 public Transform parent
423 {
424     get
425     {
426         return this.parentInternal;
427     }
428     set
429     {
430         if (this is RectTransform)
431         {
432             Debug.LogWarning("Parent of RectTransform is being set with
parent property. Consider using the SetParent method instead, with the
worldPositionStays argument set to false. This will retain local orientation and scale
rather than world orientation and scale, which can prevent common UI scaling issues.",
this);
433         }
434         this.parentInternal = value;
435     }
436 }
437
438 internal Transform parentInternal {
```



```
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get;
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] set; }

439
440     public Vector3 position
441     {
442         get
443         {
444             Vector3 vector;
445             this.INTERNAL_get_position(out vector);
446             return vector;
447         }
448         set
449         {
450             this.INTERNAL_set_position(ref value);
451         }
452     }
453
454     public Vector3 right
455     {
456         get
457         {
458             return (Vector3) (this.rotation * Vector3.right);
459         }
460         set
461         {
462             this.rotation = Quaternion.FromToRotation(Vector3.right, value);
463         }
464     }
465
466     public Transform root { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; }
467
468     public Quaternion rotation
469     {
470         get
471         {
472             Quaternion quaternion;
473             this.INTERNAL_get_rotation(out quaternion);
474             return quaternion;
475         }
476         set
477         {
478             this.INTERNAL_set_rotation(ref value);
479         }
480     }
481
482     public Vector3 up
483     {
484         get
485         {
486             return (Vector3) (this.rotation * Vector3.up);
487         }
488         set
489         {
490             this.rotation = Quaternion.FromToRotation(Vector3.up, value);
491         }
492     }
493
```

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```
494     public Matrix4x4 worldToLocalMatrix
495     {
496         get
497         {
498             Matrix4x4 matrixx;
499             this.INTERNAL_get_worldToLocalMatrix(out matrixx);
500             return matrixx;
501         }
502     }
503
504     private sealed class Enumerator : IEnumerator
505     {
506         private int currentIndex = -1;
507         private Transform outer;
508
509         internal Enumerator(Transform outer)
510         {
511             this.outer = outer;
512         }
513
514         public bool MoveNext()
515         {
516             int childCount = this.outer.childCount;
517             return (++this.currentIndex < childCount);
518         }
519
520         public void Reset()
521         {
522             this.currentIndex = -1;
523         }
524
525         public object Current
526         {
527             get
528             {
529                 return this.outer.GetChild(this.currentIndex);
530             }
531         }
532     }
533 }
534 }
```

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## UnityEngine.Renderer

```
1 namespace UnityEngine
2 {
3     using System;
4     using System.Runtime.CompilerServices;
5     using System.Runtime.InteropServices;
6 }
```



```

7     public class Renderer : Component
8     {
9         [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
10        public extern void GetPropertyBlock(MaterialPropertyBlock dest);
11        [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
12        private extern void INTERNAL_get_lightmapTilingOffset(out Vector4 value);
13        [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
14        private extern void INTERNAL_get_localToWorldMatrix(out Matrix4x4 value);
15        [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
16        private extern void INTERNAL_get_worldToLocalMatrix(out Matrix4x4 value);
17        [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
18        private extern void INTERNAL_set_lightmapTilingOffset(ref Vector4 value);
19        [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
20        public extern void Render(int material);
21        [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
22        public extern void SetPropertyBlock(MaterialPropertyBlock properties);
23        [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
24        internal extern void SetSubsetIndex(int index, int subSetIndexForMaterial);
25
26        public Bounds bounds { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; }
27
28        public bool castShadows { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
set; }
29
30        public bool enabled { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
set; }
31
32        public bool isPartOfStaticBatch {
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get; }
33
34        public bool isVisible { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; }
35
36        public int lightmapIndex { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
set; }
37
38        public Vector4 lightmapTilingOffset
39        {
40            get
41            {
42                Vector4 vector;
43                this.INTERNAL_get_lightmapTilingOffset(out vector);
44                return vector;
45            }
46            set
47            {
48                this.INTERNAL_set_lightmapTilingOffset(ref value);
49            }
50        }
51
52        public Transform lightProbeAnchor {
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
set; }
53

```

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```
54     public Matrix4x4 localToWorldMatrix
55     {
56         get
57         {
58             Matrix4x4 matrixx;
59             this.INTERNAL_get_localToWorldMatrix(out matrixx);
60             return matrixx;
61         }
62     }
63
64     public Material material { [MethodImpl(MethodImplOptions.InternalCall),
65     WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
66     set; }
67
68     public Material[] materials { [MethodImpl(MethodImplOptions.InternalCall),
69     WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
70     set; }
71
72     public bool receiveShadows { [MethodImpl(MethodImplOptions.InternalCall),
73     WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
74     set; }
75
76     public Material sharedMaterial { [MethodImpl(MethodImplOptions.InternalCall),
77     WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
78     set; }
79
80     public Material[] sharedMaterials {
81     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get;
82     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] set; }
83
84     public int sortingLayerID { [MethodImpl(MethodImplOptions.InternalCall),
85     WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
86     set; }
87
88     public string sortingLayerName { [MethodImpl(MethodImplOptions.InternalCall),
89     WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
90     set; }
91
92     public int sortingOrder { [MethodImpl(MethodImplOptions.InternalCall),
93     WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
94     set; }
95
96     internal int staticBatchIndex { [MethodImpl(MethodImplOptions.InternalCall),
97     WrapperlessIcall] get; }
98
99     internal Transform staticBatchRootTransform {
100     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get;
101     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] set; }
102
103     public bool useLightProbes { [MethodImpl(MethodImplOptions.InternalCall),
104     WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
105     set; }
106
107     public Matrix4x4 worldToLocalMatrix
108     {
109         get
110         {
111             Matrix4x4 matrixx;
```



```
91         this.INTERNAL_get_worldToLocalMatrix(out matrixx);
92         return matrixx;
93     }
94 }
95 }
96 }
```

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## UnityEngine.ParticleSystem

```
1 namespace UnityEngine
2 {
3     using System;
4     using System.Collections;
5     using System.Collections.Generic;
6     using System.Runtime.CompilerServices;
7     using System.Runtime.InteropServices;
8     using UnityEngine.Internal;
9
10    public sealed class ParticleSystem : Component
11    {
12        [ExcludeFromDocs]
13        public void Clear()
14        {
15            bool withChildren = true;
16            this.Clear(withChildren);
17        }
18
19        public void Clear([DefaultValue("true")] bool withChildren)
20        {
21            if (withChildren)
22            {
23                foreach (ParticleSystem system in GetParticleSystems(this))
24                {
25                    system.Internal_Clear();
26                }
27            }
28            else
29            {
30                this.Internal_Clear();
31            }
32        }
33
34        public void Emit(int count)
35        {
36            INTERNAL_CALL_Emit(this, count);
37        }
38
39        public void Emit(Particle particle)
40        {
41            this.Internal_Emit(ref particle);
```

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```
42     }
43
44     public void Emit(Vector3 position, Vector3 velocity, float size, float
lifetime, Color32 color)
45     {
46         Particle particle = new Particle {
47             position = position,
48             velocity = velocity,
49             lifetime = lifetime,
50             startLifetime = lifetime,
51             size = size,
52             rotation = 0f,
53             angularVelocity = 0f,
54             color = color,
55             randomSeed = 5
56         };
57         this.Internal_Emit(ref particle);
58     }
59
60     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
61     public extern int GetCollisionEvents(GameObject go, CollisionEvent[]
collisionEvents);
62     private static void GetDirectParticleSystemChildrenRecursive(Transform
transform, List<ParticleSystem> particleSystems)
63     {
64         IEnumerator enumerator = transform.GetEnumerator();
65         try
66         {
67             while (enumerator.MoveNext())
68             {
69                 Transform current = (Transform) enumerator.Current;
70                 ParticleSystem component =
current.gameObject.GetComponent<ParticleSystem>();
71                 if (component != null)
72                 {
73                     particleSystems.Add(component);
74                     GetDirectParticleSystemChildrenRecursive(current,
particleSystems);
75                 }
76             }
77         }
78         finally
79         {
80             IDisposable disposable = enumerator as IDisposable;
81             if (disposable == null)
82             {
83             }
84             disposable.Dispose();
85         }
86     }
87
88     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
89     public extern int GetParticles(Particle[] particles);
90     internal static ParticleSystem[] GetParticleSystems(ParticleSystem r
91     {
92         if (root == null)
93         {
94             return null;
```



```

95         }
96         List<ParticleSystem> particleSystems = new List<ParticleSystem> {
97             root
98         };
99         GetDirectParticleSystemChildrenRecursive(root.transform,
particleSystems);
100         return particleSystems.ToArray();
101     }
102
103     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
104     internal static extern Collider InstanceIDToCollider(int instanceID);
105     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
106     private static extern void INTERNAL_CALL_Emit(ParticleSystem self, int
count);
107     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
108     private extern void Internal_Clear();
109     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
110     private extern void Internal_Emit(ref Particle particle);
111     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
112     private extern void INTERNAL_get_startColor(out Color value);
113     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
114     private extern bool Internal_IsAlive();
115     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
116     private extern void Internal_Pause();
117     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
118     private extern void Internal_Play();
119     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
120     private extern void INTERNAL_set_startColor(ref Color value);
121     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
122     private extern void Internal_Simulate(float t, bool restart);
123     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
124     private extern void Internal_Stop();
125     [ExcludeFromDocs]
126     public bool IsAlive()
127     {
128         bool withChildren = true;
129         return this.IsAlive(withChildren);
130     }
131
132     public bool IsAlive([DefaultValue("true")] bool withChildren)
133     {
134         if (!withChildren)
135         {
136             return this.Internal_IsAlive();
137         }
138         foreach (ParticleSystem system in GetParticleSystems(this))
139         {
140             if (system.Internal_IsAlive())
141             {
142                 return true;
143             }
144         }
145         return false;
146     }
147
148     [ExcludeFromDocs]
149     public void Pause()
150     {

```



```
151         bool withChildren = true;
152         this.Pause(withChildren);
153     }
154
155     public void Pause([DefaultValue("true")] bool withChildren)
156     {
157         if (withChildren)
158         {
159             foreach (ParticleSystem system in GetParticleSystems(this))
160             {
161                 system.Internal_Pause();
162             }
163         }
164         else
165         {
166             this.Internal_Pause();
167         }
168     }
169
170     [ExcludeFromDocs]
171     public void Play()
172     {
173         bool withChildren = true;
174         this.Play(withChildren);
175     }
176
177     public void Play([DefaultValue("true")] bool withChildren)
178     {
179         if (withChildren)
180         {
181             foreach (ParticleSystem system in GetParticleSystems(this))
182             {
183                 system.Internal_Play();
184             }
185         }
186         else
187         {
188             this.Internal_Play();
189         }
190     }
191
192     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
193     public extern void SetParticles(Particle[] particles, int size);
194     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
195     internal extern void SetupDefaultType(int type);
196     [ExcludeFromDocs]
197     public void Simulate(float t)
198     {
199         bool restart = true;
200         bool withChildren = true;
201         this.Simulate(t, withChildren, restart);
202     }
203
204     [ExcludeFromDocs]
205     public void Simulate(float t, bool withChildren, bool restart)
206     {
207         bool restart = true;
208         this.Simulate(t, withChildren, restart);
```

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```
209     }
210
211     public void Simulate(float t, [DefaultValue("true")] bool withChildren,
[DefaultValue("true")] bool restart)
212     {
213         if (withChildren)
214         {
215             foreach (ParticleSystem system in GetParticleSystems(this))
216             {
217                 system.Internal_Simulate(t, restart);
218             }
219         }
220         else
221         {
222             this.Internal_Simulate(t, restart);
223         }
224     }
225
226     [ExcludeFromDocs]
227     public void Stop()
228     {
229         bool withChildren = true;
230         this.Stop(withChildren);
231     }
232
233     public void Stop([DefaultValue("true")] bool withChildren)
234     {
235         if (withChildren)
236         {
237             foreach (ParticleSystem system in GetParticleSystems(this))
238             {
239                 system.Internal_Stop();
240             }
241         }
242         else
243         {
244             this.Internal_Stop();
245         }
246     }
247
248     public float duration { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; }
249
250     public float emissionRate { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
set; }
251
252     public bool enableEmission { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
set; }
253
254     public float gravityModifier { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
set; }
255
256     public bool isPaused { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; }
257
```



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```
258         public bool isPlaying { [MethodImpl(MethodImplOptions.InternalCall),  
WrapperlessIcall] get; }  
259  
260         public bool isStopped { [MethodImpl(MethodImplOptions.InternalCall),  
WrapperlessIcall] get; }  
261  
262         public bool loop { [MethodImpl(MethodImplOptions.InternalCall),  
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]  
set; }  
263  
264         public int maxParticles { [MethodImpl(MethodImplOptions.InternalCall),  
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]  
set; }  
265  
266         public int particleCount { [MethodImpl(MethodImplOptions.InternalCall),  
WrapperlessIcall] get; }  
267  
268         public float playbackSpeed { [MethodImpl(MethodImplOptions.InternalCall),  
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]  
set; }  
269  
270         public bool playOnAwake { [MethodImpl(MethodImplOptions.InternalCall),  
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]  
set; }  
271  
272         public uint randomSeed { [MethodImpl(MethodImplOptions.InternalCall),  
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]  
set; }  
273  
274         public int safeCollisionEventSize {  
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get; }  
275  
276         public ParticleSystemSimulationSpace simulationSpace {  
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get;  
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] set; }  
277  
278         public Color startColor  
279         {  
280             get  
281             {  
282                 Color color;  
283                 this.INTERNAL_get_startColor(out color);  
284                 return color;  
285             }  
286             set  
287             {  
288                 this.INTERNAL_set_startColor(ref value);  
289             }  
290         }  
291  
292         public float startDelay { [MethodImpl(MethodImplOptions.InternalCall),  
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]  
set; }  
293  
294         public float startLifetime { [MethodImpl(MethodImplOptions.InternalCall),  
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]  
set; }  
295
```

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```
296         public float startRotation { [MethodImpl(MethodImplOptions.InternalCall),  
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]  
set; }  
297  
298         public float startSize { [MethodImpl(MethodImplOptions.InternalCall),  
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]  
set; }  
299  
300         public float startSpeed { [MethodImpl(MethodImplOptions.InternalCall),  
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]  
set; }  
301  
302         public float time { [MethodImpl(MethodImplOptions.InternalCall),  
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]  
set; }  
303  
304         [StructLayout(LayoutKind.Sequential)]  
305         public struct CollisionEvent  
306         {  
307             private Vector3 m_Intersection;  
308             private Vector3 m_Normal;  
309             private Vector3 m_Velocity;  
310             private int m_ColliderInstanceID;  
311             public Vector3 intersection  
312             {  
313                 get  
314                 {  
315                     return this.m_Intersection;  
316                 }  
317             }  
318             public Vector3 normal  
319             {  
320                 get  
321                 {  
322                     return this.m_Normal;  
323                 }  
324             }  
325             public Vector3 velocity  
326             {  
327                 get  
328                 {  
329                     return this.m_Velocity;  
330                 }  
331             }  
332             public Collider collider  
333             {  
334                 get  
335                 {  
336                     return  
ParticleSystem.InstanceIDToCollider(this.m_ColliderInstanceID);  
337                 }  
338             }  
339         }  
340  
341         [StructLayout(LayoutKind.Sequential)]  
342         public struct Particle  
343         {  
344             private Vector3 m_Position;
```

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```
345     private Vector3 m_Velocity;
346     private Vector3 m_AnimatedVelocity;
347     private Vector3 m_AxisOfRotation;
348     private float m_Rotation;
349     private float m_AngularVelocity;
350     private float m_Size;
351     private Color32 m_Color;
352     private uint m_RandomSeed;
353     private float m_Lifetime;
354     private float m_StartLifetime;
355     private float m_EmitAccumulator0;
356     private float m_EmitAccumulator1;
357     public Vector3 position
358     {
359         get
360         {
361             return this.m_Position;
362         }
363         set
364         {
365             this.m_Position = value;
366         }
367     }
368     public Vector3 velocity
369     {
370         get
371         {
372             return this.m_Velocity;
373         }
374         set
375         {
376             this.m_Velocity = value;
377         }
378     }
379     public float lifetime
380     {
381         get
382         {
383             return this.m_Lifetime;
384         }
385         set
386         {
387             this.m_Lifetime = value;
388         }
389     }
390     public float startLifetime
391     {
392         get
393         {
394             return this.m_StartLifetime;
395         }
396         set
397         {
398             this.m_StartLifetime = value;
399         }
400     }
401     public float size
402     {
```

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```
403         get
404     {
405         return this.m_Size;
406     }
407     set
408     {
409         this.m_Size = value;
410     }
411 }
412 public Vector3 axisOfRotation
413 {
414     get
415     {
416         return this.m_AxisOfRotation;
417     }
418     set
419     {
420         this.m_AxisOfRotation = value;
421     }
422 }
423 public float rotation
424 {
425     get
426     {
427         return (this.m_Rotation * 57.29578f);
428     }
429     set
430     {
431         this.m_Rotation = value * 0.01745329f;
432     }
433 }
434 public float angularVelocity
435 {
436     get
437     {
438         return (this.m_AngularVelocity * 57.29578f);
439     }
440     set
441     {
442         this.m_AngularVelocity = value * 0.01745329f;
443     }
444 }
445 public Color32 color
446 {
447     get
448     {
449         return this.m_Color;
450     }
451     set
452     {
453         this.m_Color = value;
454     }
455 }
456 [Obsolete("randomValue property is deprecated. Use randomSeed in
control random behavior of particles.")]
457 public float randomValue
458 {
459     get
```

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```
460         {
461             return
BitConverter.ToSingle(BitConverter.GetBytes(this.m_RandomSeed), 0);
462         }
463         set
464         {
465             this.m_RandomSeed =
BitConverter.ToUInt32(BitConverter.GetBytes(value), 0);
466         }
467     }
468     public uint randomSeed
469     {
470         get
471         {
472             return this.m_RandomSeed;
473         }
474         set
475         {
476             this.m_RandomSeed = value;
477         }
478     }
479 }
480 }
481 }
```



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UnityEngine.Behaviour

```
1 namespace UnityEngine
2 {
3     using System;
4     using System.Runtime.CompilerServices;
5
6     public class Behaviour : Component
7     {
8         public bool enabled { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
set; }
9     }
10 }
```



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UnityEngine.Collider

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```

1 namespace UnityEngine
2 {
3     using System;
4     using System.Runtime.CompilerServices;
5     using System.Runtime.InteropServices;
6
7     public class Collider : Component
8     {
9         public Vector3 ClosestPointOnBounds(Vector3 position)
10        {
11            return INTERNAL_CALL_ClosestPointOnBounds(this, ref position);
12        }
13
14        [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
15        private static extern Vector3 INTERNAL_CALL_ClosestPointOnBounds(Collider
self, ref Vector3 position);
16
17        [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
18        private static extern bool INTERNAL_CALL_Internal_Raycast(Collider col, ref
Ray ray, out RaycastHit hitInfo, float distance);
19
20        [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
21        private extern void INTERNAL_get_bounds(out Bounds value);
22        private static bool Internal_Raycast(Collider col, Ray ray, out RaycastHit
hitInfo, float distance)
23        {
24            return INTERNAL_CALL_Internal_Raycast(col, ref ray, out hitInfo,
distance);
25        }
26
27        public bool Raycast(Ray ray, out RaycastHit hitInfo, float distance)
28        {
29            return Internal_Raycast(this, ray, out hitInfo, distance);
30        }
31
32        public Rigidbody attachedRigidbody {
33            [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get; }
34
35        public Bounds bounds
36        {
37            get
38            {
39                Bounds bounds;
40                this.INTERNAL_get_bounds(out bounds);
41                return bounds;
42            }
43        }
44
45        public bool enabled { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
set; }
46
47        public bool isTrigger { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
set; }
48
49        public PhysicMaterial material { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
set; }


```




```
47
48     public PhysicMaterial sharedMaterial {
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall] get;
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall] set; }
49     }
50 }

```

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## UnityEngine.Rigidbody

```

1 namespace UnityEngine
2 {
3     using System;
4     using System.Runtime.CompilerServices;
5     using System.Runtime.InteropServices;
6     using UnityEngine.Internal;
7
8     public sealed class Rigidbody : Component
9     {
10         [ExcludeFromDocs]
11         public void AddExplosionForce(float explosionForce, Vector3
explosionPosition, float explosionRadius)
12         {
13             ForceMode force = ForceMode.Force;
14             float upwardsModifier = 0f;
15             INTERNAL_CALL_AddExplosionForce(this, explosionForce, ref
explosionPosition, explosionRadius, upwardsModifier, force);
16         }
17
18         [ExcludeFromDocs]
19         public void AddExplosionForce(float explosionForce, Vector3
explosionPosition, float explosionRadius, float upwardsModifier)
20         {
21             ForceMode force = ForceMode.Force;
22             INTERNAL_CALL_AddExplosionForce(this, explosionForce, ref
explosionPosition, explosionRadius, upwardsModifier, force);
23         }
24
25         public void AddExplosionForce(float explosionForce, Vector3
explosionPosition, float explosionRadius, [DefaultValue("0.0F")] float upwardsModifier,
[DefaultValue("ForceMode.Force")] ForceMode mode)
26         {
27             INTERNAL_CALL_AddExplosionForce(this, explosionForce, ref
explosionPosition, explosionRadius, upwardsModifier, mode);
28         }
29
30         [ExcludeFromDocs]
31         public void AddForce(Vector3 force)
32         {
33             ForceMode mode = ForceMode.Force;
34             INTERNAL_CALL_AddForce(this, ref force, mode);

```

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```
35     }
36
37     public void AddForce(Vector3 force, [DefaultValue("ForceMode.Force")]
ForceMode mode)
38     {
39         INTERNAL_CALL_AddForce(this, ref force, mode);
40     }
41
42     [ExcludeFromDocs]
43     public void AddForce(float x, float y, float z)
44     {
45         ForceMode force = ForceMode.Force;
46         this.AddForce(x, y, z, force);
47     }
48
49     public void AddForce(float x, float y, float z,
[DefaultValue("ForceMode.Force")] ForceMode mode)
50     {
51         this.AddForce(new Vector3(x, y, z), mode);
52     }
53
54     [ExcludeFromDocs]
55     public void AddForceAtPosition(Vector3 force, Vector3 position)
56     {
57         ForceMode mode = ForceMode.Force;
58         INTERNAL_CALL_AddForceAtPosition(this, ref force, ref position, mode);
59     }
60
61     public void AddForceAtPosition(Vector3 force, Vector3 position,
[DefaultValue("ForceMode.Force")] ForceMode mode)
62     {
63         INTERNAL_CALL_AddForceAtPosition(this, ref force, ref position, mode);
64     }
65
66     [ExcludeFromDocs]
67     public void AddRelativeForce(Vector3 force)
68     {
69         ForceMode mode = ForceMode.Force;
70         INTERNAL_CALL_AddRelativeForce(this, ref force, mode);
71     }
72
73     public void AddRelativeForce(Vector3 force,
[DefaultValue("ForceMode.Force")] ForceMode mode)
74     {
75         INTERNAL_CALL_AddRelativeForce(this, ref force, mode);
76     }
77
78     [ExcludeFromDocs]
79     public void AddRelativeForce(float x, float y, float z)
80     {
81         ForceMode force = ForceMode.Force;
82         this.AddRelativeForce(x, y, z, force);
83     }
84
85     public void AddRelativeForce(float x, float y, float z,
[DefaultValue("ForceMode.Force")] ForceMode mode)
86     {
87         this.AddRelativeForce(new Vector3(x, y, z), mode);
```

 推荐: 1

```
88     }
89
90     [ExcludeFromDocs]
91     public void AddRelativeTorque(Vector3 torque)
92     {
93         ForceMode force = ForceMode.Force;
94         INTERNAL_CALL_AddRelativeTorque(this, ref torque, force);
95     }
96
97     public void AddRelativeTorque(Vector3 torque,
[DefaultValue("ForceMode.Force")] ForceMode mode)
98     {
99         INTERNAL_CALL_AddRelativeTorque(this, ref torque, mode);
100     }
101
102     [ExcludeFromDocs]
103     public void AddRelativeTorque(float x, float y, float z)
104     {
105         ForceMode force = ForceMode.Force;
106         this.AddRelativeTorque(x, y, z, force);
107     }
108
109     public void AddRelativeTorque(float x, float y, float z,
[DefaultValue("ForceMode.Force")] ForceMode mode)
110     {
111         this.AddRelativeTorque(new Vector3(x, y, z), mode);
112     }
113
114     [ExcludeFromDocs]
115     public void AddTorque(Vector3 torque)
116     {
117         ForceMode force = ForceMode.Force;
118         INTERNAL_CALL_AddTorque(this, ref torque, force);
119     }
120
121     public void AddTorque(Vector3 torque, [DefaultValue("ForceMode.Force")]
ForceMode mode)
122     {
123         INTERNAL_CALL_AddTorque(this, ref torque, mode);
124     }
125
126     [ExcludeFromDocs]
127     public void AddTorque(float x, float y, float z)
128     {
129         ForceMode force = ForceMode.Force;
130         this.AddTorque(x, y, z, force);
131     }
132
133     public void AddTorque(float x, float y, float z,
[DefaultValue("ForceMode.Force")] ForceMode mode)
134     {
135         this.AddTorque(new Vector3(x, y, z), mode);
136     }
137
138     public Vector3 ClosestPointOnBounds(Vector3 point, Vector3[] bounds)
139     {
140         return INTERNAL_CALL_ClosestPointOnBounds(this, point, bounds);
141     }
```

 推荐: 1

```

142
143     public Vector3 GetPointVelocity(Vector3 worldPoint)
144     {
145         return INTERNAL_CALL_GetPointVelocity(this, ref worldPoint);
146     }
147
148     public Vector3 GetRelativePointVelocity(Vector3 relativePoint)
149     {
150         return INTERNAL_CALL_GetRelativePointVelocity(this, ref relativePoint);
151     }
152
153     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
154     private static extern void INTERNAL_CALL_AddExplosionForce(Rigidbody self,
155 float explosionForce, ref Vector3 explosionPosition, float explosionRadius, float
156 upwardsModifier, ForceMode mode);
157
158     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
159     private static extern void INTERNAL_CALL_AddForce(Rigidbody self, ref
160 Vector3 force, ForceMode mode);
161
162     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
163     private static extern void INTERNAL_CALL_AddForceAtPosition(Rigidbody self,
164 ref Vector3 force, ref Vector3 position, ForceMode mode);
165
166     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
167     private static extern void INTERNAL_CALL_AddRelativeForce(Rigidbody self,
168 ref Vector3 force, ForceMode mode);
169
170     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
171     private static extern void INTERNAL_CALL_AddRelativeTorque(Rigidbody self,
172 ref Vector3 torque, ForceMode mode);
173
174     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
175     private static extern void INTERNAL_CALL_AddTorque(Rigidbody self, ref
176 Vector3 torque, ForceMode mode);
177
178     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
179     private static extern Vector3 INTERNAL_CALL_ClosestPointOnBounds(Rigidbody
180 self, ref Vector3 position);
181
182     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
183     private static extern Vector3 INTERNAL_CALL_GetPointVelocity(Rigidbody self,
184 ref Vector3 worldPoint);
185
186     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
187     private static extern Vector3
188 INTERNAL_CALL_GetRelativePointVelocity(Rigidbody self, ref Vector3 relativePoint);
189
190     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
191     private static extern bool INTERNAL_CALL_IsSleeping(Rigidbody self);
192
193     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
194     private static extern void INTERNAL_CALL_MovePosition(Rigidbody self, ref
195 Vector3 position);
196
197     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
198     private static extern void INTERNAL_CALL_MoveRotation(Rigidbody self, ref
199 Quaternion rot);
200
201     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
202     private static extern void INTERNAL_CALL_SetDensity(Rigidbody self, float
203 density);
204
205     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
206     private static extern void INTERNAL_CALL_Sleep(Rigidbody self);
207
208     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
209     private static extern bool INTERNAL_CALL_SweepTest(Rigidbody self, ref
210 Vector3 direction, out RaycastHit hitInfo, float distance);
211
212     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
213     private static extern RaycastHit[] INTERNAL_CALL_SweepTestAll(Rigidbody
214 self, ref Vector3 direction, float distance);

```





```

185 [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
186 private static extern void INTERNAL_CALL_WakeUp(Rigidbody self);
187 [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
188 private extern void INTERNAL_get_angularVelocity(out Vector3 value);
189 [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
190 private extern void INTERNAL_get_centerOfMass(out Vector3 value);
191 [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
192 private extern void INTERNAL_get_inertiaTensor(out Vector3 value);
193 [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
194 private extern void INTERNAL_get_inertiaTensorRotation(out Quaternion
value);
195 [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
196 private extern void INTERNAL_get_position(out Vector3 value);
197 [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
198 private extern void INTERNAL_get_rotation(out Quaternion value);
199 [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
200 private extern void INTERNAL_get_velocity(out Vector3 value);
201 [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
202 private extern void INTERNAL_get_worldCenterOfMass(out Vector3 value);
203 [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
204 private extern void INTERNAL_set_angularVelocity(ref Vector3 value);
205 [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
206 private extern void INTERNAL_set_centerOfMass(ref Vector3 value);
207 [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
208 private extern void INTERNAL_set_inertiaTensor(ref Vector3 value);
209 [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
210 private extern void INTERNAL_set_inertiaTensorRotation(ref Quaternion
value);
211 [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
212 private extern void INTERNAL_set_position(ref Vector3 value);
213 [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
214 private extern void INTERNAL_set_rotation(ref Quaternion value);
215 [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
216 private extern void INTERNAL_set_velocity(ref Vector3 value);
217 public bool IsSleeping()
218 {
219     return INTERNAL_CALL_IsSleeping(this);
220 }
221
222 public void MovePosition(Vector3 position)
223 {
224     INTERNAL_CALL_MovePosition(this, ref position);
225 }
226
227 public void MoveRotation(Quaternion rot)
228 {
229     INTERNAL_CALL_MoveRotation(this, ref rot);
230 }
231
232 public void SetDensity(float density)
233 {
234     INTERNAL_CALL_SetDensity(this, density);
235 }
236
237 [Obsolete("use Rigidbody.maxAngularVelocity")]
238 public void SetMaxAngularVelocity(float a)
239 {
240     this.maxAngularVelocity = a;

```

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```
241     }
242
243     public void Sleep()
244     {
245         INTERNAL_CALL_Sleep(this);
246     }
247
248     [ExcludeFromDocs]
249     public bool SweepTest(Vector3 direction, out RaycastHit hitInfo)
250     {
251         float positiveInfinity = float.PositiveInfinity;
252         return INTERNAL_CALL_SweepTest(this, ref direction, out hitInfo,
positiveInfinity);
253     }
254
255     public bool SweepTest(Vector3 direction, out RaycastHit hitInfo,
[DefaultValue("Mathf.Infinity")] float distance)
256     {
257         return INTERNAL_CALL_SweepTest(this, ref direction, out hitInfo,
distance);
258     }
259
260     [ExcludeFromDocs]
261     public RaycastHit[] SweepTestAll(Vector3 direction)
262     {
263         float positiveInfinity = float.PositiveInfinity;
264         return INTERNAL_CALL_SweepTestAll(this, ref direction,
positiveInfinity);
265     }
266
267     public RaycastHit[] SweepTestAll(Vector3 direction,
[DefaultValue("Mathf.Infinity")] float distance)
268     {
269         return INTERNAL_CALL_SweepTestAll(this, ref direction, distance);
270     }
271
272     public void WakeUp()
273     {
274         INTERNAL_CALL_WakeUp(this);
275     }
276
277     public float angularDrag { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
set; }
278
279     public Vector3 angularVelocity
280     {
281         get
282         {
283             Vector3 vector;
284             this.INTERNAL_get_angularVelocity(out vector);
285             return vector;
286         }
287         set
288         {
289             this.INTERNAL_set_angularVelocity
290         }
291     }
```

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```
292
293     public Vector3 centerOfMass
294     {
295         get
296         {
297             Vector3 vector;
298             this.INTERNAL_get_centerOfMass(out vector);
299             return vector;
300         }
301         set
302         {
303             this.INTERNAL_set_centerOfMass(ref value);
304         }
305     }
306
307     public CollisionDetectionMode collisionDetectionMode {
308 [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get;
309 [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] set; }
310
311     public RigidbodyConstraints constraints {
312 [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get;
313 [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] set; }
314
315     public bool detectCollisions { [MethodImpl(MethodImplOptions.InternalCall),
316 WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
317 set; }
318
319     public float drag { [MethodImpl(MethodImplOptions.InternalCall),
320 WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
321 set; }
322
323     public bool freezeRotation { [MethodImpl(MethodImplOptions.InternalCall),
324 WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
325 set; }
326
327     public Vector3 inertiaTensor
328     {
329         get
330         {
331             Vector3 vector;
332             this.INTERNAL_get_inertiaTensor(out vector);
333             return vector;
334         }
335         set
336         {
337             this.INTERNAL_set_inertiaTensor(ref value);
338         }
339     }
340
341     public Quaternion inertiaTensorRotation
342     {
343         get
344         {
345             Quaternion quaternion;
346             this.INTERNAL_get_inertiaTensorRotation(out quaternion);
347             return quaternion;
348         }
349         set
```

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```
340         {
341             this.INTERNAL_set_inertiaTensorRotation(ref value);
342         }
343     }
344
345     public RigidbodyInterpolation interpolation {
346 [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get;
347 [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] set; }
348
349     public bool isKinematic { [MethodImpl(MethodImplOptions.InternalCall),
350 WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
351 set; }
352
353     public float mass { [MethodImpl(MethodImplOptions.InternalCall),
354 WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
355 set; }
356
357     public float maxAngularVelocity {
358 [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get;
359 [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] set; }
360
361     public Vector3 position
362     {
363         get
364         {
365             Vector3 vector;
366             this.INTERNAL_get_position(out vector);
367             return vector;
368         }
369         set
370         {
371             this.INTERNAL_set_position(ref value);
372         }
373     }
374
375     public Quaternion rotation
376     {
377         get
378         {
379             Quaternion quaternion;
380             this.INTERNAL_get_rotation(out quaternion);
381             return quaternion;
382         }
383         set
384         {
385             this.INTERNAL_set_rotation(ref value);
386         }
387     }
388
389     public float sleepAngularVelocity {
390 [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get;
391 [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] set; }
392
393     public float sleepVelocity { [MethodImpl(MethodImplOptions.InternalCall),
394 WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
395 set; }
396
397     public int solverIterationCount {
```

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```
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get;
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] set; }

386
387     public bool useConeFriction { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
set; }
388
389     public bool useGravity { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
set; }
390
391     public Vector3 velocity
392     {
393         get
394         {
395             Vector3 vector;
396             this.INTERNAL_get_velocity(out vector);
397             return vector;
398         }
399         set
400         {
401             this.INTERNAL_set_velocity(ref value);
402         }
403     }
404
405     public Vector3 worldCenterOfMass
406     {
407         get
408         {
409             Vector3 vector;
410             this.INTERNAL_get_worldCenterOfMass(out vector);
411             return vector;
412         }
413     }
414 }
415 }
```



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UnityEngine.AudioListener



```
1 namespace UnityEngine
2 {
3     using System;
4     using System.Runtime.CompilerServices;
5
6     public sealed class AudioListener : Behaviour
7     {
8         [Obsolete("GetOutputData returning a float array is deprecated. Use GetOutputData instead and pass a pre allocated array instead.")]
9         public static float[] GetOutputData(int numChannels, float[] data)
10         {
```

 推荐: 1



```

11         float[] samples = new float[numSamples];
12         GetOutputDataHelper(samples, channel);
13         return samples;
14     }
15
16     public static void GetOutputData(float[] samples, int channel)
17     {
18         GetOutputDataHelper(samples, channel);
19     }
20
21     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
22     private static extern void GetOutputDataHelper(float[] samples, int channel);
23     [Obsolete("GetSpectrumData returning a float[] is deprecated, use
GetOutputData and pass a pre allocated array instead.")]
24     public static float[] GetSpectrumData(int numSamples, int channel, FFTWindow
window)
25     {
26         float[] samples = new float[numSamples];
27         GetSpectrumDataHelper(samples, channel, window);
28         return samples;
29     }
30
31     public static void GetSpectrumData(float[] samples, int channel, FFTWindow
window)
32     {
33         GetSpectrumDataHelper(samples, channel, window);
34     }
35
36     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
37     private static extern void GetSpectrumDataHelper(float[] samples, int
channel, FFTWindow window);
38
39     public static bool pause { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
set; }
40
41     public AudioVelocityUpdateMode velocityUpdateMode {
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get;
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] set; }
42
43     public static float volume { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
set; }
44     }
45 }

```

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## UnityEngine.Camera



```

1 namespace UnityEngine
2 {

```

 推荐: 1



ALL\_VisportToScreenPoint (Ca  
ll), WrapperlessIcall]

推荐: 1

```

ref Vector3 position);
49     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
50     private static extern Vector3 INTERNAL_CALL_WorldToViewportPoint(Camera
self, ref Vector3 position);
51     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
52     private extern void INTERNAL_get_backgroundColor(out Color value);
53     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
54     private extern void INTERNAL_get_cameraToWorldMatrix(out Matrix4x4 value);
55     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
56     private extern void INTERNAL_get_pixelRect(out Rect value);
57     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
58     private extern void INTERNAL_get_projectionMatrix(out Matrix4x4 value);
59     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
60     private extern void INTERNAL_get_rect(out Rect value);
61     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
62     private extern void INTERNAL_get_velocity(out Vector3 value);
63     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
64     private extern void INTERNAL_get_worldToCameraMatrix(out Matrix4x4 value);
65     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
66     private extern bool Internal_RenderToCubemapRT(RenderTexture cubemap, int
faceMask);
67     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
68     private extern bool Internal_RenderToCubemapTexture(Cubemap cubemap, int
faceMask);
69     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
70     private extern void INTERNAL_set_backgroundColor(ref Color value);
71     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
72     private extern void INTERNAL_set_pixelRect(ref Rect value);
73     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
74     private extern void INTERNAL_set_projectionMatrix(ref Matrix4x4 value);
75     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
76     private extern void INTERNAL_set_rect(ref Rect value);
77     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
78     private extern void INTERNAL_set_worldToCameraMatrix(ref Matrix4x4 value);
79     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
80     internal extern bool IsFiltered(GameObject go);
81     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
82     public extern void Render();
83     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
84     public extern void RenderDontRestore();
85     [ExcludeFromDocs]
86     public bool RenderToCubemap(Cubemap cubemap)
87     {
88         int faceMask = 0x3f;
89         return this.RenderToCubemap(cubemap, faceMask);
90     }
91
92     [ExcludeFromDocs]
93     public bool RenderToCubemap(RenderTexture cubemap)
94     {
95         int faceMask = 0x3f;
96         return this.RenderToCubemap(cubemap, faceMask);
97     }
98
99     public bool RenderToCubemap(Cubemap cubemap, int faceMask)
100     {
101         return this.Internal_RenderToCubemapTexture(cubemap, faceMask);

```





```
102     }
103
104     public bool RenderToCubemap(RenderTexture cubemap, [DefaultValue("63")] int
faceMask)
105     {
106         return this.Internal_RenderToCubemapRT(cubemap, faceMask);
107     }
108
109     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
110     public extern void RenderWithShader(Shader shader, string replacementTag);
111     public void ResetAspect()
112     {
113         INTERNAL_CALL_ResetAspect(this);
114     }
115
116     public void ResetProjectionMatrix()
117     {
118         INTERNAL_CALL_ResetProjectionMatrix(this);
119     }
120
121     public void ResetReplacementShader()
122     {
123         INTERNAL_CALL_ResetReplacementShader(this);
124     }
125
126     public void ResetWorldToCameraMatrix()
127     {
128         INTERNAL_CALL_ResetWorldToCameraMatrix(this);
129     }
130
131     public Ray ScreenPointToRay(Vector3 position)
132     {
133         return INTERNAL_CALL_ScreenPointToRay(this, ref position);
134     }
135
136     public Vector3 ScreenToViewportPoint(Vector3 position)
137     {
138         return INTERNAL_CALL_ScreenToViewportPoint(this, ref position);
139     }
140
141     public Vector3 ScreenToWorldPoint(Vector3 position)
142     {
143         return INTERNAL_CALL_ScreenToWorldPoint(this, ref position);
144     }
145
146     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
147     public extern void SetReplacementShader(Shader shader, string
replacementTag);
148     public void SetTargetBuffers(RenderBuffer colorBuffer, RenderBuffer
depthBuffer)
149     {
150         this.SetTargetBuffersImpl(out colorBuffer, out depthBuffer);
151     }
152
153     public void SetTargetBuffers(RenderBuffer colorBuffer, RenderBuffer
depthBuffer)
154     {
155         this.SetTargetBuffersMRTImpl(colorBuffer, out depthBuffer);
```



```
156     }
157
158     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
159     private extern void SetTargetBuffersImpl(out RenderBuffer color, out
RenderBuffer depth);
160     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
161     private extern void SetTargetBuffersMRTImpl(RenderBuffer[] color, out
RenderBuffer depth);
162     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
163     public static extern void SetupCurrent(Camera cur);
164     public Ray ViewportPointToRay(Vector3 position)
165     {
166         return INTERNAL_CALL_VisualizeViewportPointToRay(this, ref position);
167     }
168
169     public Vector3 ViewportToScreenPoint(Vector3 position)
170     {
171         return INTERNAL_CALL_VisualizeViewportToScreenPoint(this, ref position);
172     }
173
174     public Vector3 ViewportToWorldPoint(Vector3 position)
175     {
176         return INTERNAL_CALL_VisualizeViewportToWorldPoint(this, ref position);
177     }
178
179     public Vector3 WorldToScreenPoint(Vector3 position)
180     {
181         return INTERNAL_CALL_VisualizeWorldToScreenPoint(this, ref position);
182     }
183
184     public Vector3 WorldToViewportPoint(Vector3 position)
185     {
186         return INTERNAL_CALL_VisualizeWorldToViewportPoint(this, ref position);
187     }
188
189     public RenderingPath actualRenderingPath {
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get; }
190
191     public static Camera[] allCameras {
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get; }
192
193     public static int allCamerasCount {
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get; }
194
195     public float aspect { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
set; }
196
197     public Color backgroundColor
198     {
199         get
200         {
201             Color color;
202             this.INTERNAL_get_backgroundColor(out color);
203             return color;
204         }
205         set
206         {
```



```

207         this.INTERNAL_set_backgroundColor(ref value);
208     }
209 }
210
211 public Matrix4x4 cameraToWorldMatrix
212 {
213     get
214     {
215         Matrix4x4 matrixx;
216         this.INTERNAL_get_cameraToWorldMatrix(out matrixx);
217         return matrixx;
218     }
219 }
220
221 public CameraClearFlags clearFlags {
222     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get;
223     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] set; }
224
225 public bool clearStencilAfterLightingPass {
226     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get;
227     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] set; }
228
229 public int cullingMask { [MethodImpl(MethodImplOptions.InternalCall),
230     WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
231     set; }
232
233 public static Camera current { [MethodImpl(MethodImplOptions.InternalCall),
234     WrapperlessIcall] get; }
235
236 public float depth { [MethodImpl(MethodImplOptions.InternalCall),
237     WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
238     set; }
239
240 public DepthTextureMode depthTextureMode {
241     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get;
242     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] set; }
243
244 public int eventMask { [MethodImpl(MethodImplOptions.InternalCall),
245     WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
246     set; }
247
248 [Obsolete("use Camera.farClipPlane instead.")]
249 public float far
250 {
251     get
252     {
253         return this.farClipPlane;
254     }
255     set
256     {
257         this.farClipPlane = value;
258     }
259 }
260
261 public float farClipPlane { [MethodImpl(M
262     WrapperlessIcall] get; [MethodImpl(MethodImplOptions.
263     set; }
264
265

```

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```
250         public float fieldOfView { [MethodImpl(MethodImplOptions.InternalCall),  
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]  
set; }  
251  
252         [Obsolete("use Camera.fieldOfView instead.")]  
253         public float fov  
254         {  
255             get  
256             {  
257                 return this.fieldOfView;  
258             }  
259             set  
260             {  
261                 this.fieldOfView = value;  
262             }  
263         }  
264  
265         public bool hdr { [MethodImpl(MethodImplOptions.InternalCall),  
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]  
set; }  
266  
267         public bool isOrthoGraphic  
268         {  
269             get  
270             {  
271                 return this.orthographic;  
272             }  
273             set  
274             {  
275                 this.orthographic = value;  
276             }  
277         }  
278  
279         public float[] layerCullDistances {  
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get;  
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] set; }  
280  
281         public bool layerCullSpherical {  
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get;  
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] set; }  
282  
283         public static Camera main { [MethodImpl(MethodImplOptions.InternalCall),  
WrapperlessIcall] get; }  
284  
285         [Obsolete("use Camera.main instead.")]  
286         public static Camera mainCamera  
287         {  
288             get  
289             {  
290                 return main;  
291             }  
292         }  
293  
294         [Obsolete("use Camera.nearClipPlane instead.")]  
295         public float near  
296         {  
297             get  
298             {
```



```
299         return this.nearClipPlane;
300     }
301     set
302     {
303         this.nearClipPlane = value;
304     }
305 }
306
307 public float nearClipPlane { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
set; }
308
309 public bool orthographic { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
set; }
310
311 public float orthographicSize { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
set; }
312
313 public float pixelHeight { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; }
314
315 public Rect pixelRect
316 {
317     get
318     {
319         Rect rect;
320         this.INTERNAL_get_pixelRect(out rect);
321         return rect;
322     }
323     set
324     {
325         this.INTERNAL_set_pixelRect(ref value);
326     }
327 }
328
329 public float pixelWidth { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; }
330
331 public Matrix4x4 projectionMatrix
332 {
333     get
334     {
335         Matrix4x4 matrixx;
336         this.INTERNAL_get_projectionMatrix(out matrixx);
337         return matrixx;
338     }
339     set
340     {
341         this.INTERNAL_set_projectionMatrix(ref value);
342     }
343 }
344
345 public Rect rect
346 {
347     get
348     {
```



```
349         Rect rect;
350         this.INTERNAL_get_rect(out rect);
351         return rect;
352     }
353     set
354     {
355         this.INTERNAL_set_rect(ref value);
356     }
357 }
358
359 public RenderingPath renderingPath {
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get;
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] set; }
360
361 public float stereoConvergence {
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get;
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] set; }
362
363 public bool stereoEnabled { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; }
364
365 public float stereoSeparation { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
set; }
366
367 public RenderTexture targetTexture {
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get;
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] set; }
368
369 public TransparencySortMode transparencySortMode {
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get;
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] set; }
370
371 public bool useOcclusionCulling {
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get;
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] set; }
372
373 public Vector3 velocity
374 {
375     get
376     {
377         Vector3 vector;
378         this.INTERNAL_get_velocity(out vector);
379         return vector;
380     }
381 }
382
383 public Matrix4x4 worldToCameraMatrix
384 {
385     get
386     {
387         Matrix4x4 matrixx;
388         this.INTERNAL_get_worldToCameraMatrix(out matrixx);
389         return matrixx;
390     }
391     set
392     {
393         this.INTERNAL_set_worldToCameraMatrix(ref value);
```

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```
394     }
395     }
396 }
397 }
```



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UnityEngine.Animator



```
1 namespace UnityEngine
2 {
3     using System;
4     using System.Runtime.CompilerServices;
5     using System.Runtime.InteropServices;
6     using UnityEngine.Internal;
7
8     public sealed class Animator : Behaviour
9     {
10         [ExcludeFromDocs]
11         public void CrossFade(int stateNameHash, float transitionDuration)
12         {
13             float negativeInfinity = float.NegativeInfinity;
14             int layer = -1;
15             this.CrossFade(stateNameHash, transitionDuration, layer,
negativeInfinity);
16         }
17
18         [ExcludeFromDocs]
19         public void CrossFade(string stateName, float transitionDuration)
20         {
21             float negativeInfinity = float.NegativeInfinity;
22             int layer = -1;
23             this.CrossFade(stateName, transitionDuration, layer, negativeInfinity);
24         }
25
26         [ExcludeFromDocs]
27         public void CrossFade(int stateNameHash, float transitionDuration, int
layer)
28         {
29             float negativeInfinity = float.NegativeInfinity;
30             this.CrossFade(stateNameHash, transitionDuration, layer,
negativeInfinity);
31         }
32
33         [ExcludeFromDocs]
34         public void CrossFade(string stateName, float transitionDuration, in
35         {
36             float negativeInfinity = float.NegativeInfinity;
37             this.CrossFade(stateName, transitionD
eInf
38         }
39
40         [MethodImpl(MethodImplOptions.InternalCall), WrapperlessCall]
```

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```

41     public extern void CrossFade(int stateNameHash, float transitionDuration,
[DefaultValue("-1")] int layer, [DefaultValue("float.NegativeInfinity")] float
normalizedTime);
42     public void CrossFade(string stateName, float transitionDuration,
[DefaultValue("-1")] int layer, [DefaultValue("float.NegativeInfinity")] float
normalizedTime)
43     {
44         this.CrossFade(StringToHash(stateName), transitionDuration, layer,
normalizedTime);
45     }
46
47     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
48     internal extern void EvaluateSM();
49     [Obsolete("ForceStateNormalizedTime is deprecated. Please use Play or
CrossFade instead.")]
50     public void ForceStateNormalizedTime(float normalizedTime)
51     {
52         this.Play(0, 0, normalizedTime);
53     }
54
55     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
56     public extern AnimatorTransitionInfo GetAnimatorTransitionInfo(int
layerIndex);
57     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
58     public extern Transform GetBoneTransform(HumanBodyBones humanBoneId);
59     public bool GetBool(int id)
60     {
61         return this.GetBoolID(id);
62     }
63
64     public bool GetBool(string name)
65     {
66         return this.GetBoolString(name);
67     }
68
69     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
70     private extern bool GetBoolID(int id);
71     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
72     private extern bool GetBoolString(string name);
73     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
74     public extern AnimationInfo[] GetCurrentAnimationClipState(int layerIndex);
75     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
76     public extern AnimatorStateInfo GetCurrentAnimatorStateInfo(int layerIndex);
77     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
78     internal extern string GetCurrentStateName(int layerIndex);
79     public float GetFloat(int id)
80     {
81         return this.GetFloatID(id);
82     }
83
84     public float GetFloat(string name)
85     {
86         return this.GetFloatString(name);
87     }
88
89     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
90     private extern float GetFloatID(int id);
91     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]

```



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```
92     private extern float GetFloatString(string name);
93     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
94     public extern Vector3 GetIKPosition(AvatarIKGoal goal);
95     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
96     public extern float GetIKPositionWeight(AvatarIKGoal goal);
97     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
98     public extern Quaternion GetIKRotation(AvatarIKGoal goal);
99     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
100    public extern float GetIKRotationWeight(AvatarIKGoal goal);
101    public int GetInteger(int id)
102    {
103        return this.GetIntegerID(id);
104    }
105
106    public int GetInteger(string name)
107    {
108        return this.GetIntegerString(name);
109    }
110
111    [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
112    private extern int GetIntegerID(int id);
113    [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
114    private extern int GetIntegerString(string name);
115    [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
116    public extern string GetLayerName(int layerIndex);
117    [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
118    public extern float GetLayerWeight(int layerIndex);
119    [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
120    public extern AnimationInfo[] GetNextAnimationClipState(int layerIndex);
121    [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
122    public extern AnimatorStateInfo GetNextAnimatorStateInfo(int layerIndex);
123    [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
124    internal extern string GetNextStateName(int layerIndex);
125    [Obsolete("GetQuaternion is deprecated.")]
126    public Quaternion GetQuaternion(int id)
127    {
128        return Quaternion.identity;
129    }
130
131    [Obsolete("GetQuaternion is deprecated.")]
132    public Quaternion GetQuaternion(string name)
133    {
134        return Quaternion.identity;
135    }
136
137    [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
138    internal extern string GetStats();
139    [Obsolete("GetVector is deprecated.")]
140    public Vector3 GetVector(int id)
141    {
142        return Vector3.zero;
143    }
144
145    [Obsolete("GetVector is deprecated.")]
146    public Vector3 GetVector(string name)
147    {
148        return Vector3.zero;
149    }
```



```

150
151     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
152     private static extern void INTERNAL_CALL_MatchTarget(Animator self, ref
Vector3 matchPosition, ref Quaternion matchRotation, AvatarTarget targetBodyPart, ref
MatchTargetWeightMask weightMask, float startNormalizedTime, float
targetNormalizedTime);
153     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
154     private static extern void INTERNAL_CALL_SetIKPosition(Animator self,
AvatarIKGoal goal, ref Vector3 goalPosition);
155     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
156     private static extern void INTERNAL_CALL_SetIKRotation(Animator self,
AvatarIKGoal goal, ref Quaternion goalRotation);
157     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
158     private static extern void INTERNAL_CALL_SetLookAtPosition(Animator self,
ref Vector3 lookAtPosition);
159     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
160     private extern void INTERNAL_get_bodyPosition(out Vector3 value);
161     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
162     private extern void INTERNAL_get_bodyRotation(out Quaternion value);
163     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
164     private extern void INTERNAL_get_rootPosition(out Vector3 value);
165     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
166     private extern void INTERNAL_get_rootRotation(out Quaternion value);
167     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
168     private extern void INTERNAL_set_bodyPosition(ref Vector3 value);
169     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
170     private extern void INTERNAL_set_bodyRotation(ref Quaternion value);
171     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
172     private extern void INTERNAL_set_rootPosition(ref Vector3 value);
173     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
174     private extern void INTERNAL_set_rootRotation(ref Quaternion value);
175     [ExcludeFromDocs]
176     public void InterruptMatchTarget()
177     {
178         bool completeMatch = true;
179         this.InterruptMatchTarget(completeMatch);
180     }
181
182     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
183     public extern void InterruptMatchTarget([DefaultValue("true")] bool
completeMatch);
184     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
185     internal extern bool IsBoneTransform(Transform transform);
186     [MethodImpl(MethodImplOptions.InternalCall), Obsolete("use mask and layers
to control subset of transfroms in a skeleton", true), WrapperlessIcall]
187     public extern bool IsControlled(Transform transform);
188     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
189     public extern bool IsInTransition(int layerIndex);
190     public bool IsParameterControlledByCurve(int id)
191     {
192         return this.IsParameterControlledByCurveID(id);
193     }
194
195     public bool IsParameterControlledByCurve(string name)
196     {
197         return this.IsParameterControlledByCurveID(id);
198     }
199

```



```

200 [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
201 private extern bool IsParameterControlledByCurveID(int id);
202 [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
203 private extern bool IsParameterControlledByCurveString(string name);
204 [ExcludeFromDocs]
205 public void MatchTarget(Vector3 matchPosition, Quaternion matchRotation,
AvatarTarget targetBodyPart, MatchTargetWeightMask weightMask, float
startNormalizedTime)
206 {
207     float targetNormalizedTime = 1f;
208     INTERNAL_CALL_MatchTarget(this, ref matchPosition, ref matchRotation,
targetBodyPart, ref weightMask, startNormalizedTime, targetNormalizedTime);
209 }
210
211 public void MatchTarget(Vector3 matchPosition, Quaternion matchRotation,
AvatarTarget targetBodyPart, MatchTargetWeightMask weightMask, float
startNormalizedTime, [DefaultValue("1")] float targetNormalizedTime)
212 {
213     INTERNAL_CALL_MatchTarget(this, ref matchPosition, ref matchRotation,
targetBodyPart, ref weightMask, startNormalizedTime, targetNormalizedTime);
214 }
215
216 [ExcludeFromDocs]
217 public void Play(int stateNameHash)
218 {
219     float negativeInfinity = float.NegativeInfinity;
220     int layer = -1;
221     this.Play(stateNameHash, layer, negativeInfinity);
222 }
223
224 [ExcludeFromDocs]
225 public void Play(string stateName)
226 {
227     float negativeInfinity = float.NegativeInfinity;
228     int layer = -1;
229     this.Play(stateName, layer, negativeInfinity);
230 }
231
232 [ExcludeFromDocs]
233 public void Play(int stateNameHash, int layer)
234 {
235     float negativeInfinity = float.NegativeInfinity;
236     this.Play(stateNameHash, layer, negativeInfinity);
237 }
238
239 [ExcludeFromDocs]
240 public void Play(string stateName, int layer)
241 {
242     float negativeInfinity = float.NegativeInfinity;
243     this.Play(stateName, layer, negativeInfinity);
244 }
245
246 [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
247 public extern void Play(int stateNameHash, [DefaultValue("-1")] int
[DefaultValue("float.NegativeInfinity")] float normal
248 public void Play(string stateName, [Defau
[DefaultValue("float.NegativeInfinity")] float normal
249 {

```



```

250         this.Play(StringToHash(stateName), layer, normalizedTime);
251     }
252
253     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
254     public extern void Rebind();
255     public void ResetTrigger(int id)
256     {
257         this.ResetTriggerID(id);
258     }
259
260     public void ResetTrigger(string name)
261     {
262         this.ResetTriggerString(name);
263     }
264
265     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
266     private extern void ResetTriggerID(int id);
267     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
268     private extern void ResetTriggerString(string name);
269     public void SetBool(int id, bool value)
270     {
271         this.SetBoolID(id, value);
272     }
273
274     public void SetBool(string name, bool value)
275     {
276         this.SetBoolString(name, value);
277     }
278
279     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
280     private extern void SetBoolID(int id, bool value);
281     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
282     private extern void SetBoolString(string name, bool value);
283     public void SetFloat(int id, float value)
284     {
285         this.SetFloatID(id, value);
286     }
287
288     public void SetFloat(string name, float value)
289     {
290         this.SetFloatString(name, value);
291     }
292
293     public void SetFloat(int id, float value, float dampTime, float deltaTime)
294     {
295         this.SetFloatIDDamp(id, value, dampTime, deltaTime);
296     }
297
298     public void SetFloat(string name, float value, float dampTime, float
deltaTime)
299     {
300         this.SetFloatStringDamp(name, value, dampTime, deltaTime);
301     }
302
303     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
304     private extern void SetFloatID(int id, float value);
305     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
306     private extern void SetFloatIDDamp(int id, float value, float dampTime,
float deltaTime);

```



```

float deltaTime);
307     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
308     private extern void SetFloatString(string name, float value);
309     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
310     private extern void SetFloatStringDamp(string name, float value, float
dampTime, float deltaTime);
311     public void SetIKPosition(AvatarIKGoal goal, Vector3 goalPosition)
312     {
313         INTERNAL_CALL_SetIKPosition(this, goal, ref goalPosition);
314     }
315
316     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
317     public extern void SetIKPositionWeight(AvatarIKGoal goal, float value);
318     public void SetIKRotation(AvatarIKGoal goal, Quaternion goalRotation)
319     {
320         INTERNAL_CALL_SetIKRotation(this, goal, ref goalRotation);
321     }
322
323     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
324     public extern void SetIKRotationWeight(AvatarIKGoal goal, float value);
325     public void SetInteger(int id, int value)
326     {
327         this.SetIntegerID(id, value);
328     }
329
330     public void SetInteger(string name, int value)
331     {
332         this.SetIntegerString(name, value);
333     }
334
335     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
336     private extern void SetIntegerID(int id, int value);
337     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
338     private extern void SetIntegerString(string name, int value);
339     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
340     public extern void SetLayerWeight(int layerIndex, float weight);
341     public void SetLookAtPosition(Vector3 lookAtPosition)
342     {
343         INTERNAL_CALL_SetLookAtPosition(this, ref lookAtPosition);
344     }
345
346     [ExcludeFromDocs]
347     public void SetLookAtWeight(float weight)
348     {
349         float clampWeight = 0.5f;
350         float eyesWeight = 0f;
351         float headWeight = 1f;
352         float bodyWeight = 0f;
353         this.SetLookAtWeight(weight, bodyWeight, headWeight, eyesWeight,
clampWeight);
354     }
355
356     [ExcludeFromDocs]
357     public void SetLookAtWeight(float weight, float bodyWeight)
358     {
359         float clampWeight = 0.5f;
360         float eyesWeight = 0f;
361         float headWeight = 1f;

```



```

362         this.SetLookAtWeight(weight, bodyWeight, headWeight, eyesWeight,
clampWeight);
363     }
364
365     [ExcludeFromDocs]
366     public void SetLookAtWeight(float weight, float bodyWeight, float
headWeight)
367     {
368         float clampWeight = 0.5f;
369         float eyesWeight = 0f;
370         this.SetLookAtWeight(weight, bodyWeight, headWeight, eyesWeight,
clampWeight);
371     }
372
373     [ExcludeFromDocs]
374     public void SetLookAtWeight(float weight, float bodyWeight, float
headWeight, float eyesWeight)
375     {
376         float clampWeight = 0.5f;
377         this.SetLookAtWeight(weight, bodyWeight, headWeight, eyesWeight,
clampWeight);
378     }
379
380     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
381     public extern void SetLookAtWeight(float weight, [DefaultValue("0.00f")]
float bodyWeight, [DefaultValue("1.00f")] float headWeight, [DefaultValue("0.00f")]
float eyesWeight, [DefaultValue("0.50f")] float clampWeight);
382     [Obsolete("SetQuaternion is deprecated.")]
383     public void SetQuaternion(int id, Quaternion value)
384     {
385     }
386
387     [Obsolete("SetQuaternion is deprecated.")]
388     public void SetQuaternion(string name, Quaternion value)
389     {
390     }
391
392     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
393     public extern void SetTarget(AvatarTarget targetIndex, float
targetNormalizedTime);
394     public void SetTrigger(int id)
395     {
396         this.SetTriggerID(id);
397     }
398
399     public void SetTrigger(string name)
400     {
401         this.SetTriggerString(name);
402     }
403
404     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
405     private extern void SetTriggerID(int id);
406     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
407     private extern void SetTriggerString(string name);
408     [Obsolete("SetVector is deprecated.")]
409     public void SetVector(int id, Vector3 val
410     {
411     }

```



```
412
413     [Obsolete("SetVector is deprecated.")]
414     public void SetVector(string name, Vector3 value)
415     {
416     }
417
418     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
419     public extern void StartPlayback();
420     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
421     public extern void StartRecording(int frameCount);
422     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
423     public extern void StopPlayback();
424     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
425     public extern void StopRecording();
426     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
427     public static extern int StringToHash(string name);
428     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
429     public extern void Update(float deltaTime);
430     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
431     internal extern void WriteDefaultPose();
432
433     internal bool allowConstantClipSamplingOptimization {
434         [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get;
435         [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] set; }
436
437     [Obsolete("Use AnimationMode.updateMode instead")]
438     public bool animatePhysics
439     {
440         get
441         {
442             return (this.updateMode == AnimatorUpdateMode.AnimatePhysics);
443         }
444         set
445         {
446             this.updateMode = !value ? AnimatorUpdateMode.Normal :
447             AnimatorUpdateMode.AnimatePhysics;
448         }
449     }
450
451     public bool applyRootMotion { [MethodImpl(MethodImplOptions.InternalCall),
452     WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
453     set; }
454
455     public Avatar avatar { [MethodImpl(MethodImplOptions.InternalCall),
456     WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
457     set; }
458
459     internal Transform avatarRoot { [MethodImpl(MethodImplOptions.InternalCall),
460     WrapperlessIcall] get; }
461
462     public Vector3 bodyPosition
463     {
464         get
465         {
466             Vector3 vector;
467             this.INTERNAL_get_bodyPosition(out vector);
468             return vector;
469         }
470     }
```

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```
462         set
463     {
464         this.INTERNAL_set_bodyPosition(ref value);
465     }
466 }
467
468 public Quaternion bodyRotation
469 {
470     get
471     {
472         Quaternion quaternion;
473         this.INTERNAL_get_bodyRotation(out quaternion);
474         return quaternion;
475     }
476     set
477     {
478         this.INTERNAL_set_bodyRotation(ref value);
479     }
480 }
481
482 public AnimatorCullingMode cullingMode {
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get;
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] set; }
483
484 public Vector3 deltaPosition { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; }
485
486 public Quaternion deltaRotation {
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get; }
487
488 public float feetPivotActive { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
set; }
489
490 public bool fireEvents { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
set; }
491
492 public float gravityWeight { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; }
493
494 public bool hasRootMotion { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; }
495
496 public bool hasTransformHierarchy {
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get; }
497
498 public float humanScale { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; }
499
500 public bool isHuman { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; }
501
502 private bool isInManagerList { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; }
503
504 public bool isMatchingTarget { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; }
```





```
505
506     public bool isOptimizable { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; }
507
508     public int layerCount { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; }
509
510     public bool layersAffectMassCenter {
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get;
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] set; }
511
512     public float leftFeetBottomHeight {
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get; }
513
514     public bool logWarnings { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
set; }
515
516     public Vector3 pivotPosition { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; }
517
518     public float pivotWeight { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; }
519
520     public float playbackTime { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
set; }
521
522     public float recorderStartTime {
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get;
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] set; }
523
524     public float recorderStopTime { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
set; }
525
526     public float rightFeetBottomHeight {
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get; }
527
528     public Vector3 rootPosition
529     {
530         get
531         {
532             Vector3 vector;
533             this.INTERNAL_get_rootPosition(out vector);
534             return vector;
535         }
536         set
537         {
538             this.INTERNAL_set_rootPosition(ref value);
539         }
540     }
541
542     public Quaternion rootRotation
543     {
544         get
545         {
546             Quaternion quaternion;
```



```

547         this.INTERNAL_get_rootRotation(out quaternion);
548         return quaternion;
549     }
550     set
551     {
552         this.INTERNAL_set_rootRotation(ref value);
553     }
554 }
555
556 public RuntimeAnimatorController runtimeAnimatorController {
557     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get;
558     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] set; }
559
560 public float speed { [MethodImpl(MethodImplOptions.InternalCall),
561     WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
562     set; }
563
564 public bool stabilizeFeet { [MethodImpl(MethodImplOptions.InternalCall),
565     WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
566     set; }
567
568 internal bool supportsOnAnimatorMove {
569     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get; }
570
571 public Vector3 targetPosition { [MethodImpl(MethodImplOptions.InternalCall),
572     WrapperlessIcall] get; }
573
574 public Quaternion targetRotation {
575     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get; }
576
577 public AnimatorUpdateMode updateMode {
578     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get;
579     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] set; }
580 }
581 }

```

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## UnityEngine.AudioSource

```

1 namespace UnityEngine
2 {
3     using System;
4     using System.Runtime.CompilerServices;
5     using UnityEngine.Internal;
6
7     public sealed class AudioSource : Behaviour
8     {
9         [Obsolete("GetOutputData return a float[] passing a pre allocated array instead.")]
10         public float[] GetOutputData(int numSamples)
11         {

```

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```

12         float[] samples = new float[numSamples];
13         this.GetOutputDataHelper(samples, channel);
14         return samples;
15     }
16
17     public void GetOutputData(float[] samples, int channel)
18     {
19         this.GetOutputDataHelper(samples, channel);
20     }
21
22     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
23     private extern void GetOutputDataHelper(float[] samples, int channel);
24     [Obsolete("GetSpectrumData returning a float[] is deprecated, use
GetSpectrumData passing a pre allocated array instead.")]
25     public float[] GetSpectrumData(int numSamples, int channel, FFTWindow
window)
26     {
27         float[] samples = new float[numSamples];
28         this.GetSpectrumDataHelper(samples, channel, window);
29         return samples;
30     }
31
32     public void GetSpectrumData(float[] samples, int channel, FFTWindow window)
33     {
34         this.GetSpectrumDataHelper(samples, channel, window);
35     }
36
37     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
38     private extern void GetSpectrumDataHelper(float[] samples, int channel,
FFTWindow window);
39     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
40     private static extern void INTERNAL_CALL_Pause(AudioSource self);
41     public void Pause()
42     {
43         INTERNAL_CALL_Pause(this);
44     }
45
46     [ExcludeFromDocs]
47     public void Play()
48     {
49         ulong delay = 0L;
50         this.Play(delay);
51     }
52
53     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
54     public extern void Play([DefaultValue("0")] ulong delay);
55     [ExcludeFromDocs]
56     public static void PlayClipAtPoint(AudioClip clip, Vector3 position)
57     {
58         float volume = 1f;
59         PlayClipAtPoint(clip, position, volume);
60     }
61
62     public static void PlayClipAtPoint(AudioClip clip, Vector3 position,
[DefaultValue("1.0F")] float volume)
63     {
64         GameObject obj2 = new GameObject("One");
65         transform = { position = position;

```

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```

66         };
67         AudioSource source = (AudioSource)
obj2.AddComponent(typeof(AudioSource));
68         source.clip = clip;
69         source.volume = volume;
70         source.Play();
71         UnityEngine.Object.Destroy(obj2, clip.length * Time.timeScale);
72     }
73
74     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
75     public extern void PlayDelayed(float delay);
76     [ExcludeFromDocs]
77     public void PlayOneShot(AudioClip clip)
78     {
79         float volumeScale = 1f;
80         this.PlayOneShot(clip, volumeScale);
81     }
82
83     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
84     public extern void PlayOneShot(AudioClip clip, [DefaultValue("1.0f")] float
volumeScale);
85     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
86     public extern void PlayScheduled(double time);
87     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
88     public extern void SetScheduledEndTime(double time);
89     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
90     public extern void SetScheduledStartTime(double time);
91     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
92     public extern void Stop();
93
94     public bool bypassEffects { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
set; }
95
96     public bool bypassListenerEffects {
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get;
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] set; }
97
98     public bool bypassReverbZones { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
set; }
99
100    public AudioClip clip { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
set; }
101
102    public float dopplerLevel { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
set; }
103
104    public bool ignoreListenerPause {
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get;
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] set; }
105
106    public bool ignoreListenerVolume {
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get;
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] set; }
107

```

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```
108         public bool isPlaying { [MethodImpl(MethodImplOptions.InternalCall),  
WrapperlessIcall] get; }  
109  
110         public bool loop { [MethodImpl(MethodImplOptions.InternalCall),  
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]  
set; }  
111  
112         public float maxDistance { [MethodImpl(MethodImplOptions.InternalCall),  
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]  
set; }  
113  
114         [Obsolete("maxVolume is not supported anymore. Use min-, maxDistance and  
rolloffMode instead.", true)]  
115         public float maxVolume { [MethodImpl(MethodImplOptions.InternalCall),  
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]  
set; }  
116  
117         public float minDistance { [MethodImpl(MethodImplOptions.InternalCall),  
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]  
set; }  
118  
119         [Obsolete("minVolume is not supported anymore. Use min-, maxDistance and  
rolloffMode instead.", true)]  
120         public float minVolume { [MethodImpl(MethodImplOptions.InternalCall),  
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]  
set; }  
121  
122         public bool mute { [MethodImpl(MethodImplOptions.InternalCall),  
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]  
set; }  
123  
124         public float pan { [MethodImpl(MethodImplOptions.InternalCall),  
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]  
set; }  
125  
126         public float panLevel { [MethodImpl(MethodImplOptions.InternalCall),  
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]  
set; }  
127  
128         public float pitch { [MethodImpl(MethodImplOptions.InternalCall),  
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]  
set; }  
129  
130         public bool playOnAwake { [MethodImpl(MethodImplOptions.InternalCall),  
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]  
set; }  
131  
132         public int priority { [MethodImpl(MethodImplOptions.InternalCall),  
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]  
set; }  
133  
134         [Obsolete("rolloffFactor is not supported anymore. Use min-, maxDist  
rolloffMode instead.", true)]  
135         public float rolloffFactor { [MethodImpl(MethodImplOptions.InternalCall),  
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]  
set; }  
136  
137         public AudioRolloffMode rolloffMode {
```



```

[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get;
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] set; }
138
139     public float spread { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
set; }
140
141     public float time { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
set; }
142
143     public int timeSamples { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
set; }
144
145     public AudioVelocityUpdateMode velocityUpdateMode {
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get;
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] set; }
146
147     public float volume { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
set; }
148     }
149 }

```


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## UnityEngine.Light

```

1 namespace UnityEngine
2 {
3     using System;
4     using System.Runtime.CompilerServices;
5     using System.Runtime.InteropServices;
6
7     public sealed class Light : Behaviour
8     {
9         [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
10        public static extern Light[] GetLights(LightType type, int layer);
11        [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
12        private extern void INTERNAL_get_areaSize(out Vector2 value);
13        [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
14        private extern void INTERNAL_get_color(out Color value);
15        [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
16        private extern void INTERNAL_set_areaSize(ref Vector2 value);
17        [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
18        private extern void INTERNAL_set_color(ref Color value);
19
20        public bool alreadyLightmapped {
21            [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
22            [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
23        }
24    }
25 }

```

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```
22     public Vector2 areaSize
23     {
24         get
25         {
26             Vector2 vector;
27             this.INTERNAL_get_areaSize(out vector);
28             return vector;
29         }
30         set
31         {
32             this.INTERNAL_set_areaSize(ref value);
33         }
34     }
35
36     [Obsolete("light.attenuate was removed; all lights always attenuate now",
37 true)]
38     public bool attenuate
39     {
40         get
41         {
42             return true;
43         }
44         set
45         {
46         }
47     }
48     public Color color
49     {
50         get
51         {
52             Color color;
53             this.INTERNAL_get_color(out color);
54             return color;
55         }
56         set
57         {
58             this.INTERNAL_set_color(ref value);
59         }
60     }
61
62     public Texture cookie { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
set; }
63
64     public float cookieSize { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
set; }
65
66     public int cullingMask { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
set; }
67
68     public Flare flare { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
set; }
69
70     public float intensity { [MethodImpl(MethodImplOptions.InternalCall),
```



```
WrapperlessICall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
set; }

71
72     [Obsolete("Use QualitySettings.pixelLightCount instead.")]
73     public static int pixelLightCount {
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall] get;
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall] set; }
74
75     public float range { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessICall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
set; }
76
77     public LightRenderMode renderMode {
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall] get;
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall] set; }
78
79     public float shadowBias { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessICall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
set; }
80
81     [Obsolete("light.shadowConstantBias was removed, use light.shadowBias",
true)]
82     public float shadowConstantBias
83     {
84         get
85         {
86             return 0f;
87         }
88         set
89         {
90         }
91     }
92
93     [Obsolete("light.shadowObjectSizeBias was removed, use light.shadowBias",
true)]
94     public float shadowObjectSizeBias
95     {
96         get
97         {
98             return 0f;
99         }
100        set
101        {
102        }
103    }
104
105    public LightShadows shadows { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessICall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
set; }
106
107    public float shadowSoftness { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessICall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessI
set; }
108
109    public float shadowSoftnessFade {
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessI
[MethodImpl(MethodImplOptions.InternalCall), WrapperlessI
110
```

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```
111         public float shadowStrength { [MethodImpl(MethodImplOptions.InternalCall),  
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]  
set; }  
112  
113         public float spotAngle { [MethodImpl(MethodImplOptions.InternalCall),  
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]  
set; }  
114  
115         public LightType type { [MethodImpl(MethodImplOptions.InternalCall),  
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]  
set; }  
116     }  
117 }
```

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## UnityEngine.Animation

```
1 namespace UnityEngine  
2 {  
3     using System;  
4     using System.Collections;  
5     using System.Reflection;  
6     using System.Runtime.CompilerServices;  
7     using System.Runtime.InteropServices;  
8     using UnityEngine.Internal;  
9  
10    public sealed class Animation : Behaviour, IEnumerable  
11    {  
12        public void AddClip(AnimationClip clip, string newName)  
13        {  
14            this.AddClip(clip, newName, -2147483648, 0xffffffff);  
15        }  
16  
17        [ExcludeFromDocs]  
18        public void AddClip(AnimationClip clip, string newName, int firstFrame, int  
lastFrame)  
19        {  
20            bool addLoopFrame = false;  
21            this.AddClip(clip, newName, firstFrame, lastFrame, addLoopFrame);  
22        }  
23  
24        [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]  
25        public extern void AddClip(AnimationClip clip, string newName, int  
firstFrame, int lastFrame, [DefaultValue("false")] bool addLoopFrame);  
26        [ExcludeFromDocs]  
27        public void Blend(string animation)  
28        {  
29            float fadeLength = 0.3f;  
30            float targetWeight = 1f;  
31            this.Blend(animation, targetWeight, f  
32        }
```



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```

33
34     [ExcludeFromDocs]
35     public void Blend(string animation, float targetWeight)
36     {
37         float fadeLength = 0.3f;
38         this.Blend(animation, targetWeight, fadeLength);
39     }
40
41     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
42     public extern void Blend(string animation, [DefaultValue("1.0F")] float
targetWeight, [DefaultValue("0.3F")] float fadeLength);
43     [ExcludeFromDocs]
44     public void CrossFade(string animation)
45     {
46         PlayMode stopSameLayer = PlayMode.StopSameLayer;
47         float fadeLength = 0.3f;
48         this.CrossFade(animation, fadeLength, stopSameLayer);
49     }
50
51     [ExcludeFromDocs]
52     public void CrossFade(string animation, float fadeLength)
53     {
54         PlayMode stopSameLayer = PlayMode.StopSameLayer;
55         this.CrossFade(animation, fadeLength, stopSameLayer);
56     }
57
58     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
59     public extern void CrossFade(string animation, [DefaultValue("0.3F")] float
fadeLength, [DefaultValue("PlayMode.StopSameLayer")] PlayMode mode);
60     [ExcludeFromDocs]
61     public AnimationState CrossFadeQueued(string animation)
62     {
63         PlayMode stopSameLayer = PlayMode.StopSameLayer;
64         QueueMode completeOthers = QueueMode.CompleteOthers;
65         float fadeLength = 0.3f;
66         return this.CrossFadeQueued(animation, fadeLength, completeOthers,
stopSameLayer);
67     }
68
69     [ExcludeFromDocs]
70     public AnimationState CrossFadeQueued(string animation, float fadeLength)
71     {
72         PlayMode stopSameLayer = PlayMode.StopSameLayer;
73         QueueMode completeOthers = QueueMode.CompleteOthers;
74         return this.CrossFadeQueued(animation, fadeLength, completeOthers,
stopSameLayer);
75     }
76
77     [ExcludeFromDocs]
78     public AnimationState CrossFadeQueued(string animation, float fadeLength,
QueueMode queue)
79     {
80         PlayMode stopSameLayer = PlayMode.StopSameLayer;
81         return this.CrossFadeQueued(animation, fadeLength, queue,
stopSameLayer);
82     }
83
84     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]

```



```

85     public extern AnimationState CrossFadeQueued(string animation,
[DefaultValue("0.3F")] float fadeLength, [DefaultValue("QueueMode.CompleteOthers")]
QueueMode queue, [DefaultValue("PlayMode.StopSameLayer")] PlayMode mode);
86     public AnimationClip GetClip(string name)
87     {
88         AnimationState state = this.GetState(name);
89         if (state != null)
90         {
91             return state.clip;
92         }
93         return null;
94     }
95
96     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
97     public extern int GetClipCount();
98     public IEnumerator GetEnumerator()
99     {
100         return new Enumerator(this);
101     }
102
103     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
104     internal extern AnimationState GetState(string name);
105     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
106     internal extern AnimationState GetStateAtIndex(int index);
107     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
108     internal extern int GetStateCount();
109     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
110     private static extern void INTERNAL_CALL_Rewind(Animation self);
111     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
112     private static extern void INTERNAL_CALL_Sample(Animation self);
113     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
114     private static extern void INTERNAL_CALL_Stop(Animation self);
115     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
116     private static extern void INTERNAL_CALL_SyncLayer(Animation self, int
layer);
117     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
118     private extern void INTERNAL_get_localBounds(out Bounds value);
119     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
120     private extern void Internal_RewindByName(string name);
121     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
122     private extern void INTERNAL_set_localBounds(ref Bounds value);
123     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
124     private extern void Internal_StopByName(string name);
125     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessICall]
126     public extern bool IsPlaying(string name);
127     [ExcludeFromDocs]
128     public bool Play()
129     {
130         PlayMode stopSameLayer = PlayMode.StopSameLayer;
131         return this.Play(stopSameLayer);
132     }
133
134     [ExcludeFromDocs]
135     public bool Play(string animation)
136     {
137         PlayMode stopSameLayer = PlayMode.Sto
138         return this.Play(animation, stopSameL
139     }

```



```
140
141     [Obsolete("use PlayMode instead of AnimationPlayMode.")]
142     public bool Play(AnimationPlayMode mode)
143     {
144         return this.PlayDefaultAnimation((PlayMode) mode);
145     }
146
147     public bool Play([DefaultValue("PlayMode.StopSameLayer")] PlayMode mode)
148     {
149         return this.PlayDefaultAnimation(mode);
150     }
151
152     [Obsolete("use PlayMode instead of AnimationPlayMode.")]
153     public bool Play(string animation, AnimationPlayMode mode)
154     {
155         return this.Play(animation, (PlayMode) mode);
156     }
157
158     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
159     public extern bool Play(string animation,
160 [DefaultValue("PlayMode.StopSameLayer")] PlayMode mode);
161
162     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
163     private extern bool PlayDefaultAnimation(PlayMode mode);
164     [ExcludeFromDocs]
165     public AnimationState PlayQueued(string animation)
166     {
167         PlayMode stopSameLayer = PlayMode.StopSameLayer;
168         QueueMode completeOthers = QueueMode.CompleteOthers;
169         return this.PlayQueued(animation, completeOthers, stopSameLayer);
170     }
171
172     [ExcludeFromDocs]
173     public AnimationState PlayQueued(string animation, QueueMode queue)
174     {
175         PlayMode stopSameLayer = PlayMode.StopSameLayer;
176         return this.PlayQueued(animation, queue, stopSameLayer);
177     }
178
179     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
180     public extern AnimationState PlayQueued(string animation,
181 [DefaultValue("QueueMode.CompleteOthers")] QueueMode queue,
182 [DefaultValue("PlayMode.StopSameLayer")] PlayMode mode);
183
184     public void RemoveClip(string clipName)
185     {
186         this.RemoveClip2(clipName);
187     }
188
189     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
190     public extern void RemoveClip(AnimationClip clip);
191
192     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
193     private extern void RemoveClip2(string clipName);
194
195     public void Rewind()
196     {
197         INTERNAL_CALL_Rewind(this);
198     }
199
200     public void Rewind(string name)
201     {
202     }
```



```
195         this.Internal_RewindByName(name);
196     }
197
198     public void Sample()
199     {
200         INTERNAL_CALL_Sample(this);
201     }
202
203     public void Stop()
204     {
205         INTERNAL_CALL_Stop(this);
206     }
207
208     public void Stop(string name)
209     {
210         this.Internal_StopByName(name);
211     }
212
213     public void SyncLayer(int layer)
214     {
215         INTERNAL_CALL_SyncLayer(this, layer);
216     }
217
218     [Obsolete("Use cullingType instead")]
219     public bool animateOnlyIfVisible {
220         [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get;
221         [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] set; }
222
223     public bool animatePhysics { [MethodImpl(MethodImplOptions.InternalCall),
224         WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
225         set; }
226
227     public AnimationClip clip { [MethodImpl(MethodImplOptions.InternalCall),
228         WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
229         set; }
230
231     public AnimationCullingType cullingType {
232         [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] get;
233         [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall] set; }
234
235     public bool isPlaying { [MethodImpl(MethodImplOptions.InternalCall),
236         WrapperlessIcall] get; }
237
238     public AnimationState this[string name]
239     {
240         get
241         {
242             return this.GetState(name);
243         }
244     }
245
246     public Bounds localBounds
247     {
248         get
249         {
250             Bounds bounds;
251             this.INTERNAL_get_localBounds(out bounds);
252             return bounds;
253         }
254     }
```

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```
244         }
245         set
246         {
247             this.INTERNAL_set_localBounds(ref value);
248         }
249     }
250
251     public bool playAutomatically { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
set; }
252
253     public WrapMode wrapMode { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
set; }
254
255     private sealed class Enumerator : IEnumerator
256     {
257         private int m_CurrentIndex = -1;
258         private Animation m_Outer;
259
260         internal Enumerator(Animation outer)
261         {
262             this.m_Outer = outer;
263         }
264
265         public bool MoveNext()
266         {
267             int stateCount = this.m_Outer.GetStateCount();
268             this.m_CurrentIndex++;
269             return (this.m_CurrentIndex < stateCount);
270         }
271
272         public void Reset()
273         {
274             this.m_CurrentIndex = -1;
275         }
276
277         public object Current
278         {
279             get
280             {
281                 return this.m_Outer.GetStateAtIndex(this.m_CurrentIndex);
282             }
283         }
284     }
285 }
286 }
```

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UnityEngine.MonoBehaviour

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```
1 namespace UnityEngine
2 {
3     using System;
4     using System.Collections;
5     using System.Runtime.CompilerServices;
6     using UnityEngine.Internal;
7
8     public class MonoBehaviour : Behaviour
9     {
10         [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
11         public extern MonoBehaviour();
12         public void CancelInvoke()
13         {
14             this.Internal_CancelInvokeAll();
15         }
16
17         [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
18         public extern void CancelInvoke(string methodName);
19         [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
20         private extern void Internal_CancelInvokeAll();
21         [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
22         private extern bool Internal_IsInvokingAll();
23         [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
24         public extern void Invoke(string methodName, float time);
25         [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
26         public extern void InvokeRepeating(string methodName, float time, float
repeatRate);
27         public bool IsInvoking()
28         {
29             return this.Internal_IsInvokingAll();
30         }
31
32         [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
33         public extern bool IsInvoking(string methodName);
34         public static void print(object message)
35         {
36             Debug.Log(message);
37         }
38
39         public Coroutine StartCoroutine(IEnumerator routine)
40         {
41             return this.StartCoroutine_Auto(routine);
42         }
43
44         [ExcludeFromDocs]
45         public Coroutine StartCoroutine(string methodName)
46         {
47             object obj2 = null;
48             return this.StartCoroutine(methodName, obj2);
49         }
50
51         [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
52         public extern Coroutine StartCoroutine(string methodName,
[DefaultValue("null")] object value);
53         [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
54         public extern Coroutine StartCoroutine_Auto(IEnumerator routine);
55         [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
56         public extern void StopAllCoroutines();
```

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```
57     public void StopCoroutine(IEnumerator routine)
58     {
59         this.StopCoroutineViaEnumerator_Auto(routine);
60     }
61
62     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
63     public extern void StopCoroutine(string methodName);
64     public void StopCoroutine(Coroutine routine)
65     {
66         this.StopCoroutine_Auto(routine);
67     }
68
69     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
70     internal extern void StopCoroutine_Auto(Coroutine routine);
71     [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
72     internal extern void StopCoroutineViaEnumerator_Auto(IEnumerator routine);
73
74     public bool useGUILayout { [MethodImpl(MethodImplOptions.InternalCall),
WrapperlessIcall] get; [MethodImpl(MethodImplOptions.InternalCall), WrapperlessIcall]
set; }
75 }
76 }
```



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