

# MAGIO API DOCUMENTATION

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# Namespace Documentation

## Magio Namespace Reference

### MagioMagioClasses

- 1 interface **IInteractWithEffect**  
*Implement this interface and you can catch collisions/touchs with effects. Example: SimpleInteractWithEffect.cs. Example in demoscene: Main camera, move to effect.*
- 2 class **InvertCrawlForFadeOut**  
*Inverts the effect crawl speed for fade out period.*
- 3 class **MagioEffectPack**  
*Represents one effect pack.*
- 4 class **MagioEngine**  
*Singleton to handle all the general **Magio** properties and settings*
- 5 class **MagioLight**  
*Attach this to your light, link **MagioObjectEffect** and set intensities to animate the light.*
- 6 class **MagioMaterialAnimationSettings**  
*Compatibilities are saved here to optimize the performance. You can also override these compatibilities to make different animations for different objects (or not to animate some).*
- 7 class **MagioObjectEffect**  
*Represents one attached effect on object (flame, plants, freeze etc.)*
- 8 class **MagioObjectMaster**  
*Master for all the effect on one object. Handles interaction and turns.*
- 9 class **MagioPrefabDefaults**  
*Attach this to VFX prefab if you want to override shader defaults with VFX specific values*
- 10 class **MagioTriggerCallbacks**  
*With this class you can for example set barrel to explode after 5 seconds*
- 11 class **MaterialPropertySaver**  
*Handles the saving of original material values (in case of 3rd-party shaders)*
- 12 class **NullifyRuleSet**  
*Represents global nullify ruleset. Effects will interact with each other according to these rules. Origin will nullify the target. Target cannot ignite if origin is enabled.*
- 13 class **OAVAShaderCompatibilitySO**  
*Compatibility with 3rd party shader. Compatible with **Magio** and **Ignis***
- 14 class **ParticleIgnite**  
*Adds ability to Ignite the effect using particles.*
- 15 class **ParticleNullify**  
*Adds ability to Nullify/Extinguish the effect using particles.*
- 16 class **RaycastIgnite**  
*Adds ability to Ignite the effect using raycast.*
- 17 class **RaycastNullify**  
*Adds ability to Nullify/Extinguish the effect using Raycast.*
- 18 class **SelfDestroy**



*Destroys gameobject after a while.*

19 class **SimpleInteractWithEffect**

*A template for interacting with MagioEffect using **IInteractWithEffect** interface.*

20 class **SphereIgnite**

*Adds ability to Ignite the effect using Spherecast.*

21 class **SphereNullify**

*Adds ability to Nullify/Extinguish the effect using Spherecast.*

22 class **SpreadNullify**

*Nullifies the effect according to other effect (or own) spread.*

23 class **SpreadPhysics**

*Spreading physics. Creates overlap box and uses math to spread the effect if necessary.*

24 class **VegetationStudioProTreeUnMasker**

*Unmasks VSPPro instance if necessary (not ignited).*

25 class **VFXHelpers**

*Helps handling the vfx properties*

26 class **WindRetrieve**

*Used to retrieve global wind.*

## **Enumerations**

27 enum **EffectClass** { **Default, Flame, Melt, Stone, Grass, Poison, Ice, Darkness, Electricity** }

28 enum **VFXSpawnerType** { **Mesh, SkinnedMesh** }

29 enum **VFXParameterType** { **ANIMATION\_CURVE, BOOL, FLOAT, GRADIENT, INT, MATRIX, MESH, SKINNED\_MESH\_RENDERER, TEXTURE, UINT, VECTOR2, VECTOR3, VECTOR4, COLOR** }

30 enum **EffectBehaviourMode** { **Enable, Spread** }

# Class DocumentationClass Documentation

## Magio.MagioMaterialAnimationSettings.CompatibilityOverride Struct Reference

### Magio.MagioMaterialAnimationSettings.CompatibilityOverrideMagio.MagioMaterialAnimationSettings.CompatibilityOverridePublic Attributes

- 31 int materialIndex
- 32 OAVAShaderCompatibilitySO shaderComp

## Magio.IInteractWithEffect Interface Reference

Magio.IInteractWithEffectMagio.IInteractWithEffect

Implement this interface and you can catch collisions/touchs with effects. Example: SimpleInteractWithEffect.cs. Example in demoscene: Main camera, move to effect.

Inherited by **Magio.SimpleInteractWithEffect**.

### Public Member Functions

33 void **OnCollisionWithEffect** (GameObject magioObject)

*Called on collision with the effect **SpreadPhysics***

---

### Detailed Description

Implement this interface and you can catch collisions/touchs with effects. Example: SimpleInteractWithEffect.cs. Example in demoscene: Main camera, move to effect.

---

### Member Function Documentation

**OnCollisionWithEffect:Magio.IInteractWithEffectMagio.IInteractWithEffect:OnCollisionWithEffectvoid Magio.IInteractWithEffect.OnCollisionWithEffect (GameObject *magioObject*)**

Called on collision with the effect **SpreadPhysics**

#### Parameters

<i>magioObject</i>	object which collides
--------------------	-----------------------

Implemented in **Magio.SimpleInteractWithEffect** (*p.*).

## **Magio.InvertCrawlForFadeOut Class Reference**

Magio.InvertCrawlForFadeOutMagio.InvertCrawlForFadeOut

Inverts the effect crawl speed for fade out period.

Inherits MonoBehaviour.

### **Public Attributes**

34 **MagioObjectEffect** effect

---

### **Detailed Description**

Inverts the effect crawl speed for fade out period.

## Magio.MagioObjectEffect.MagioEffectObject Struct Reference

### Magio.MagioObjectEffect.MagioEffectObjectMagio.MagioObjectEffect.MagioEffectObjectPublic Attributes

- 35 Transform **boundObject**
- 36 SkinnedMeshRenderer **skinnedMeshRenderer**
- 37 VisualEffect **magioEffect**
- 38 float **size**

## Magio.MagioEffectPack Class Reference

Magio.MagioEffectPackMagio.MagioEffectPack

Represents one effect pack.

Inherits ScriptableObject.

### Public Attributes

39 List< GameObject > **meshEffects** = new List<GameObject>()

40 List< GameObject > **skinnedMeshEffects** = new List<GameObject>()

---

### Detailed Description

Represents one effect pack.

## Magio.MagioEngine Class Reference

Magio.MagioEngineMagio.MagioEngine

Singleton to handle all the general **Magio** properties and settings

Inherits MonoBehaviour.

### Public Member Functions

41 void **Start** ()

42 void **PauseEffects** ()

*Pauses the effects.*

43 void **ResumeEffects** ()

*Resumes the effects (if paused)*

44 float **GetNullifyRuleLagBehind** (EffectClass origin, EffectClass target)

*Gets nullify rule parameters if it exists. Returns -1 if rule does not exist.*

45 List< **OAVAShaderCompatibilitySO** > **GetCompatibleShaders** ()

*Gets all compatible shaders.*

46 GameObject **MaskUnityTerrainTreeAndInstanceAPrefabIfNecessary** (GameObject other, Vector3 hitPoint, EffectClass affectedClass, float dist)

*Masks a terrain tree and spawns a prefab on it's place if all the conditions are fulfilled.*

*BEWARE: This is slow operation if there are lots of trees.*

47 GameObject **MaskInstanceAndSpawnAPrefabIfNecessary** (GameObject other, EffectClass affectedClass)

*Masks Vegetation Studio instance and spawns a prefab in it's place if conditions are fulfilled.*

### Public Attributes

48 Transform **effectParent**

49 Transform **runTimeTreeParent**

50 Transform **vsProMaskParent**

51 Transform **splashEffectParent**

52 **WindRetrieve** flameWindRetriever

53 **NullifyRuleSet** nullifyRuleSet

54 List< **MagioEffectPack** > **effectPacks** = new List<**MagioEffectPack**>()

55 List< **OAVAShaderCompatibilitySO** > **compatibleShaders** = new List<**OAVAShaderCompatibilitySO**>()

56 bool **unityTerrainCompatible** = false

57 bool **VegetationStudioProCompatible** = false

58 float **globalParticleMultiplier** = 1

59 float **SpreadPhysicsCheckFrequency** = 5

60 bool **enableOnTouchChecks** = false

61 bool **modifyEffectParametersOnRuntime** = true

62 bool **creatingDebug** = false

63 bool **pause** = false

## Static Public Attributes

64 static **MagioEngine** **\_instance**

## Properties

65 static **MagioEngine** **instance** [get]

---

## Detailed Description

Singleton to handle all the general **Magio** properties and settings

---

## Member Function Documentation

**GetCompatibleShaders:Magio.MagioEngineMagio.MagioEngine:GetCompatibleShadersList< OAVAShaderCompatibilitySO > Magio.MagioEngine.GetCompatibleShaders ()**

Gets all compatible shaders.

### Returns

List of compatible shaders.

**GetNullifyRuleLagBehind:Magio.MagioEngineMagio.MagioEngine:GetNullifyRuleLagBehindfloat Magio.MagioEngine.GetNullifyRuleLagBehind (EffectClass *origin*, EffectClass *target*)**

Gets nullify rule parameters if it exists. Returns -1 if rule does not exist.

### Parameters

<i>origin</i>	origin class
<i>target</i>	Target class

### Returns

-1 if rule does not exist. Else NullifyLagBehind\_m

**MaskInstanceAndSpawnAPrefabIfNecessary:Magio.MagioEngineMagio.MagioEngine:MaskInstanceAndSpawnAPrefabIfNecessaryGameObject Magio.MagioEngine.MaskInstanceAndSpawnAPrefabIfNecessary (GameObject *other*, EffectClass *affectedClass*)**

Masks Vegetation Studio instance and spawns a prefab in it's place if conditions are fulfilled.

### Parameters

<i>other</i>	Spreading Gameobject
--------------	----------------------



<i>affectedClass</i>	Class affected by this spreading
----------------------	----------------------------------

### Returns

Spawned Prefab

**MaskUnityTerrainTreeAndInstanceAPrefabIfNecessary:Magio.MagioEngineMagio.MagioEngine:MaskUnityTerrainTreeAndInstanceAPrefabIfNecessaryGameObject  
Magio.MagioEngine.MaskUnityTerrainTreeAndInstanceAPrefabIfNecessary (GameObject *other*, Vector3 *hitPoint*, EffectClass *affectedClass*, float *dist*)**

Masks a terrain tree and spawns a prefab on it's place if all the conditions are fulfilled.  
BEWARE: This is slow operation if there are lots of trees.

### Parameters

<i>other</i>	Spreading object
<i>hitPoint</i>	Where it is hit
<i>affectedClass</i>	Which class is affected
<i>dist</i>	Distance from the hitpoint

### Returns

Spawned gameobject

## MagioEventInvoker Class Reference

MagioEventInvokerMagioEventInvoker

Ability to invoke events

Inherits MonoBehaviour.

### Public Attributes

66 UnityEvent **BeingNullified**

*Called when effect is being nullified currently.*

67 UnityEvent **Nullified**

68 UnityEvent **FadedOut**

69 UnityEvent **Ignited**

---

### Detailed Description

Ability to invoke events

## Magio.MagioLight Class Reference

Magio.MagioLightMagio.MagioLight

Attach this to your light, link **MagioObjectEffect** and set intensities to animate the light.

Inherits MonoBehaviour.

### Public Member Functions

70 void **SmoothEnable** ()

*Smoothly linearly enables the light and starts the interpolation*

71 void **SmoothDisable** ()

*Disables the light. Interpolate to afterEffectIntensity.*

### Public Attributes

72 **MagioObjectEffect** attachedMagioObject

73 float **flickerMultiplier** = 0.3f

74 float **flickerSpeed** = 5

75 float **achieveMaxIntensityTime** = 2

76 float **startIntensity** = 0

77 float **effectOnIntensity** = 2

78 float **afterEffectIntensity** = 0

---

### Detailed Description

Attach this to your light, link **MagioObjectEffect** and set intensities to animate the light.

## Magio.MagioMaterialAnimationSettings Class Reference

Magio.MagioMaterialAnimationSettingsMagio.MagioMaterialAnimationSettings  
Compatibilities are saved here to optimize the performance. You can also override these compatibilities to make different animations for different objects (or not to animate some). Inherits MonoBehaviour.

### Classes

79 struct **CompatibilityOverride**

### Public Member Functions

80 List< **OAVAShaderCompatibilitySO** > **GetNewCompatibilitiesList** ()

*Updates the compatibility list*

81 List< **OAVAShaderCompatibilitySO** > **GetCompatibilities** ()

*Gets the existing (or lazy initializes in case of first) list of compatibilites*

### Public Attributes

82 List< **CompatibilityOverride** > **compatibilitySettingOverrides** = new  
List<**CompatibilityOverride**>()

---

### Detailed Description

Compatibilities are saved here to optimize the performance. You can also override these compatibilities to make different animations for different objects (or not to animate some).

---

### Member Function Documentation

**GetCompatibilities:Magio.MagioMaterialAnimationSettingsMagio.MagioMaterialAnimationSettings:GetCompatibilitiesList< OAVAShaderCompatibilitySO > Magio.MagioMaterialAnimationSettings.GetCompatibilities** ()

*Gets the existing (or lazy initializes in case of first) list of compatibilites*

#### Returns

List of comps for current materials

**GetNewCompatibilitiesList:Magio.MagioMaterialAnimationSettingsMagio.MagioMaterialAnimationSettings:GetNewCompatibilitiesListList< OAVAShaderCompatibilitySO > Magio.MagioMaterialAnimationSettings.GetNewCompatibilitiesList** ()

*Updates the compatibility list*

**Returns**

List of current compatibilities

## Magio.MagioObjectEffect Class Reference

Magio.MagioObjectEffectMagio.MagioObjectEffect

Represents one attached effect on object (flame, plants, freeze etc.)

Inherits MonoBehaviour.

### Classes

83 struct **MagioEffectObject**

84 struct **VFXProps**

### Public Types

85 enum **CalculationArea** { **None, Object, Vegetation** }

86 enum **CanBeReanimated** { **No, Only\_After\_Nullify, Always** }

87 enum **MagioShaderEffectMode** { **Emission\_Overlay, Dissolve, Texture\_Override** }

### Public Member Functions

88 void **Setup** ()

*Initial setup. Call this if you need to change target gameobject runtime etc.*

89 void **CheckForObjectDelete** ()

*Checks if the object should be deleted.*

90 void **SaveOriginalMaterialShaderProperties** ()

*Saves the original shader/material properties which are to be animated by **Magio**.*

91 void **ResetMaterialFromMagio** ()

*Resets the material values which were animated by **Magio** to the originals. Does not reset other material shader properties.*

92 void **ResetObj** ()

*Resets flammable object values. Does not reset the shader. Please Call **ResetMaterialFromIgnis()** to reset the shader.*

93 void **AnimateFromCenter** ()

*Animates the object from the center of transform.*

94 void **TryToAnimateEffect** (Vector3 effectSpreadOrigin, float addToAnimateProgress)

*Tries to animate the object. (Ignition time, canBeReanimated etc. matters)*

95 void **IncrementalNullify** (Vector3 position, float startRadius, float radiusIncrement)

*Incrementally nullifies the effect from position.*

96 void **SetNullifyArea** (Vector3 center, float radius)

*Sets the nullify area.*

- 97 void **UpdateVFX** (List< **MagioEffectObject** > magioEffs, float spread, Vector3 spreadOriginLocal, float approxSize)  
*Updates all the effects according to parameters on this object.*
- 98 void **RefreshAndResetVFXProperties** ()  
*Resets all the vfx properties according to EffectPrefab*
- 99 void **UpdateVFXProperties** ()  
*Updates the properties list but does not override any.*
- 100 **VFXProps GetVFXPropertyValue** (string propertyName)  
*Gets VFX property with the name*
- 101 bool **SetVFXPropertyValue** (**VFXProps** prop)  
*Sets VFX property value.*
- 102 bool **HasEffectEnded** ()  
*Has the object already burnt out?*
- 103 bool **IsExtinguished** ()  
*Was the object extinguished*
- 104 float **GetNullifyRadius** ()  
*Return the radius of the current extinguish effect*
- 105 Vector3 **GetNullifyCenter** ()  
*Return the center of the current extinguish effect*
- 106 float **GetCurrentIgnitionProgress** ()  
*Returns current ignition progress*
- 107 Vector3 **GetEffectOrigin** ()  
*Gets Position of the origin of the spread*
- 108 float **GetObjectApproxSize** ()  
*Gets the approximated longest size of an object*

## **Public Attributes**

- 109 bool **useOnThisGameObject** = true  
110 GameObject **targetGameObject**

```

111 EffectBehaviourMode effectBehaviourType = EffectBehaviourMode.Spread
112 bool spreadToOtherObjects = true
113 EffectClass effectClass = EffectClass.Default
114 LayerMask spreadLayerMask = ~0
115 List< Collider > spreadingColliders = new List<Collider>()
116 bool useEffectOnAllMeshes = true
117 List< MeshFilter > magioMeshes = new List<MeshFilter>()
118 bool useAllCollidersToSpread = true
119 Transform customStartOrigin
120 float ignitionTime = 0
121 bool affectedByWind = true
122 Vector3 addedExternalVelocity = new Vector3()
123 MagioObjectEffect.CanBeReanimated canBeReAnimated =
    MagioObjectEffect.CanBeReanimated.No
124 bool effectOnForever = false
125 float fadeOutStart_s = 30
126 float fadeOutLength_s = 10
127 float effectCrawlSpeed = 1f
128 float maxSpread = 10000f
129 bool enableMaterialAnimation = true
130 Color shaderEmissionColor = new Color(241f/ 255f, 121f/ 255f, 11f/ 255, 1f)
131 float shaderToEffectEndInterpolateSpeed = 0.03f
132 float shaderEmissionMultiplier = 1
133 float achieveEmissionColorTime_s = 5
134 float shaderColorNoise = 0.05f
135 float shaderColorNoiseSpeed = 1
136 MagioShaderEffectMode magioShaderEffectMode = MagioShaderEffectMode.Emission_Overlay
137 float dissolveEmissionEdgeWidth = 0.2f
138 Texture2D overrideAlbedoMap
139 Texture2D overrideNormalMap
140 Vector2 overrideTextureTiling = new Vector2(1, 1)
141 Vector2 overrideTextureOffset
142 bool blendToOtherTexture = false
143 Texture2D blendAlbedoMap
144 Texture2D blendNormalMap
145 float blendTextureNormalStrength = 1
146 Vector2 blendTextureTiling = new Vector2(1,1)
147 Vector3 effectSpreadAreaAddition = new Vector3(0.5f, 0.5f, 0.5f)
148 bool beginEffectOnStart = false
149 float effectSpread = 0
150 float effectEnabledTimer = 0
151 bool effectEnabled = false
152 bool addSFXRuntime = false
153 float sfxPitchRandomization = 0.3f
154 float sfxStartTimeRandomizationMax = 10
155 GameObject effectSFX
156 List< AudioSource > allEffectSFX = new List<AudioSource>()
157 float fullNullifyToughness = 0.7f
158 float backSpreadCoolDown_s = 5
159 VFXSpawnerType vfxSpawnerType = VFXSpawnerType.Mesh
160 bool slowAnimationOnEffectStart = false
161 Animator animator
162 float animationSlowDownSpeed = 0.2f
163 float animationSlowDownTargetValue = 0

```



```
164 bool deleteObjectAfterFullSpread = false
165 bool isSplashEffect = false
166 bool deleteObjectAfterFadeOut = false
167 List< VFXProps > vfxProperties = new List<VFXProps>()
168 int openTabUpper = 0
169 int openTabLower = 0
170 int effectPackNumber = 0
171 int effectNumber = 0
172 int propertyCount = 0
```

## Properties

```
173 GameObject EffectPrefab [getset]
    Current effect prefab in use
```

---

## Detailed Description

Represents one attached effect on object (flame, plants, freeze etc.)

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## Member Function Documentation

**GetCurrentIgnitionProgress:Magio.MagioObjectEffectMagio.MagioObjectEffect:GetCurrentIgnitionProgressfloat Magio.MagioObjectEffect.GetCurrentIgnitionProgress ()**

Returns current ignition progress

### Returns

ignition progress in seconds

**GetEffectOrigin:Magio.MagioObjectEffectMagio.MagioObjectEffect:GetEffectOriginVector3 Magio.MagioObjectEffect.GetEffectOrigin ()**

Gets Position of the origin of the spread

### Returns

Position of the origin of the spread

**GetNullifyCenter:Magio.MagioObjectEffectMagio.MagioObjectEffect:GetNullifyCenterVector3 Magio.MagioObjectEffect.GetNullifyCenter ()**

Return the center of the current extinguish effect

**Returns**

World position

**GetNullifyRadius:Magio.MagioObjectEffectMagio.MagioObjectEffect:GetNullifyRadiusfloat  
Magio.MagioObjectEffect.GetNullifyRadius ()**

Return the radius of the current extinguish effect

**Returns**

radius in m

**GetObjectApproxSize:Magio.MagioObjectEffectMagio.MagioObjectEffect:GetObjectApprox  
Sizefloat Magio.MagioObjectEffect.GetObjectApproxSize ()**

Gets the approximated longest size of an object

**Returns**

**GetVFXPropertyValue:Magio.MagioObjectEffectMagio.MagioObjectEffect:GetVFXProperty  
ValueVFXProps Magio.MagioObjectEffect.GetVFXPropertyValue (string *propertyName*)**

Gets VFX property with the name

**Parameters**

<i>propertyName</i>	name of the property (Case sensitive)
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**Returns**

Property

**HasEffectEnded:Magio.MagioObjectEffectMagio.MagioObjectEffect:HasEffectEndedbool  
Magio.MagioObjectEffect.HasEffectEnded ()**

Has the object already burnt out?

**Returns**

**IncrementalNullify:Magio.MagioObjectEffectMagio.MagioObjectEffect:IncrementalNullifyvo  
id Magio.MagioObjectEffect.IncrementalNullify (Vector3 *position*, float *startRadius*, float  
*radiusIncrement*)**

Incrementally nullifies the effect from position.

**Parameters**

<i>position</i>	Current nullify position
-----------------	--------------------------

<i>startRadius</i>	Radius of the nullify
<i>radiusIncrement</i>	Radius incremented in every call, if new position is not added

**IsExtinguished:Magio.MagioObjectEffectMagio.MagioObjectEffect:IsExtinguishedbool  
Magio.MagioObjectEffect.IsExtinguished ()**

Was the object extinguished

### Returns

**SetNullifyArea:Magio.MagioObjectEffectMagio.MagioObjectEffect:SetNullifyAreavoid  
Magio.MagioObjectEffect.SetNullifyArea (Vector3 *center*, float *radius*)**

Sets the nullify area.

### Parameters

<i>center</i>	Center of the area
<i>radius</i>	Radius of the area

**SetVFXPropertyValue:Magio.MagioObjectEffectMagio.MagioObjectEffect:SetVFXPropertyV  
aluebool Magio.MagioObjectEffect.SetVFXPropertyValue (VFXProps *prop*)**

Sets VFX property value.

### Parameters

<i>prop</i>	Property to replace with right name
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### Returns

True if property was valid. False if it was not

**TryToAnimateEffect:Magio.MagioObjectEffectMagio.MagioObjectEffect:TryToAnimateEffec  
tvoid Magio.MagioObjectEffect.TryToAnimateEffect (Vector3 *effectSpreadOrigin*, float  
*addToAnimateProgress*)**

Tries to animate the object. (Ignition time, canBeReanimated etc. matters)

### Parameters

<i>effectSpreadOrigin</i>	Where should the effect spread.
<i>addToAnimatePro gress</i>	How much the ignition time/Progress should be added

**UpdateVFX:Magio.MagioObjectEffectMagio.MagioObjectEffect:UpdateVFXvoid  
Magio.MagioObjectEffect.UpdateVFX (List< MagioEffectObject > *magioEffs*, float *spread*,  
Vector3 *spreadOriginLocal*, float *approxSize*)**

Updates all the effects according to parameters on this object.

### Parameters

<i>magioEffs</i>	Effects to update
<i>spread</i>	Spread of the effects
<i>spreadOriginLocal</i>	Local origin of the spread
<i>approxSize</i>	Approx size of the object effect is attached

## Magio.MagioObjectMaster Class Reference

Magio.MagioObjectMaster  
Master for all the effect on one object. Handles interaction and turns.  
Inherits MonoBehaviour.

### Public Member Functions

174 void **CalculateApproxSize** ()

*Calculates approx size of object from the renderer bounds.*

175 bool **CanIUseMaterialAnimation** (MagioObjectEffect magioObj, bool isMagioShader)

*Returns true if other effects are not using materialAnimation*

176 bool **IsEmissionOverlayerEffectEnabled** ()

177 bool **CanEffectEnable** (MagioObjectEffect magioObj)

178 void **HandleNewEffectEnable** (MagioObjectEffect magioObj)

179 void **AddMagioObject** (MagioObjectEffect magioObj)

180 void **RemoveMagioObject** (MagioObjectEffect magioObj)

### Public Attributes

181 List< MagioObjectEffect > **magioObjects** = new List<MagioObjectEffect>()

182 GameObject **effectParent**

### Properties

183 float **ApproxSize** [get]

184 Vector3 **ApproxCenter** [get]

---

### Detailed Description

Master for all the effect on one object. Handles interaction and turns.

---

### Member Function Documentation

**CanIUseMaterialAnimation: Magio.MagioObjectMasterMagio.MagioObjectMaster: CanIUseMaterialAnimation**  
**CanIUseMaterialAnimation**bool Magio.MagioObjectMaster.CanIUseMaterialAnimation  
(MagioObjectEffect *magioObj*, bool *isMagioShader*)

Returns true if other effects are not using materialAnimation

#### Parameters

<i>magioObj</i>	
-----------------	--

#### Returns



## Magio.MagioPrefabDefaults Class Reference

Magio.MagioPrefabDefaultsMagio.MagioPrefabDefaults

Attach this to VFX prefab if you want to override shader defaults with VFX specific values

Inherits MonoBehaviour.

### Public Attributes

185 EffectClass **effectClass** = EffectClass.Default

186 bool **enableMaterialAnimation** = true

187 Color **shaderEmissionColor** = new Color(241f / 255f, 121f / 255f, 11f / 255, 1f)

188 float **shaderToEffectEndInterpolateSpeed** = 0.03f

189 float **shaderEmissionMultiplier** = 1

190 float **achieveEmissionColorTime\_s** = 20

191 float **shaderColorNoise** = 0.05f

192 float **shaderColorNoiseSpeed** = 1

193 MagioObjectEffect.MagioShaderEffectMode **magioShaderEffectMode** =  
MagioObjectEffect.MagioShaderEffectMode.Emission\_Overlay

194 Texture2D **overrideAlbedoMap**

195 Texture2D **overrideNormalMap**

196 Vector2 **overrideTextureTiling**

197 Vector2 **overrideTextureOffset**

198 bool **blendToOtherTexture**

199 Texture2D **blendAlbedoMap**

200 Texture2D **blendNormalMap**

201 float **blendTextureNormalStrength**

202 Vector2 **blendTextureTiling**

203 GameObject **effectSFX**

204 bool **slowAnimationOnEffectStart** = false

205 float **animationSlowDownSpeed** = 0.2f

206 float **animationSlowDownTargetValue** = 0

---

### Detailed Description

Attach this to VFX prefab if you want to override shader defaults with VFX specific values

## Magio.MagioTriggerCallbacks Class Reference

Magio.MagioTriggerCallbacksMagio.MagioTriggerCallbacks

With this class you can for example set barrel to explode after 5 seconds

Inherits MonoBehaviour.

### Public Member Functions

207 void **TriggerEvents** ()

### Public Attributes

208 float **delaySeconds** = 5f

209 UnityEvent **CallbackFunctions**

---

### Detailed Description

With this class you can for example set barrel to explode after 5 seconds



## Magio.MaterialPropertySaver Class Reference

Magio.MaterialPropertySaver  
Magio.MaterialPropertySaver  
Handles the saving of original material values (in case of 3rd-party shaders)  
Inherits MonoBehaviour.

### Classes

210 struct **MatProps**

### Public Member Functions

211 void **SaveOriginalMaterialShaderProperties** ()

*Saves the original shader/material properties which are to be animated by Ignis.*

212 void **SaveSharedOriginalMaterialShaderProperties** ()

*Saves the original shader/material properties which are to be animated by Ignis.*

213 void **ResetMaterialFromMagio** ()

*Resets the material values which were animated by Ignis to the originals. Does not reset other material shader properties.*

### Properties

214 Dictionary< Material, **MatProps** > **OriginalMaterialValues** [get]

---

### Detailed Description

Handles the saving of original material values (in case of 3rd-party shaders)

## Magio.MaterialPropertySaver.MatProps Struct Reference

### Magio.MaterialPropertySaver.MatPropsMagio.MaterialPropertySaver.MatPropsP ublic Attributes

215 bool **isMagioShader**  
216 Renderer **renderer**  
217 string **originalMainColorName**  
218 Color **originalMainColor**  
219 string **originalEmissionColorName**  
220 Color **originalEmissionColor**  
221 Dictionary< string, float > **originalNameFloatPairs**

## Magio.NullifyRuleSet.NullifyRule Struct Reference

### Magio.NullifyRuleSet.NullifyRuleMagio.NullifyRuleSet.NullifyRulePublic Attributes

- 222 EffectClass **originClass**
- 223 EffectClass **targetClass**
- 224 float **nullifyLagBehind\_m**

## Magio.NullifyRuleSet Class Reference

Magio.NullifyRuleSetMagio.NullifyRuleSet

Represents global nullify ruleset. Effects will interact with each other according to these rules.

Origin will nullify the target. Target cannot ignite if origin is enabled.

Inherits ScriptableObject.

### Classes

225 struct **NullifyRule**

### Public Member Functions

226 float **GetNullifyRuleLagBehind** (EffectClass origin, EffectClass target)

*Gets nullify rule parameters if it exists. Returns -1 if rule does not exist.*

### Public Attributes

227 List< **NullifyRule** > **nullifyRules** = new List<**NullifyRule**>()

228 Dictionary< EffectClass, Dictionary< EffectClass, float > > **nullifyRuleDict** = new  
Dictionary<EffectClass, Dictionary<EffectClass, float>>()

---

### Detailed Description

Represents global nullify ruleset. Effects will interact with each other according to these rules.

Origin will nullify the target. Target cannot ignite if origin is enabled.

---

### Member Function Documentation

**GetNullifyRuleLagBehind:Magio.NullifyRuleSetMagio.NullifyRuleSet:GetNullifyRuleLagBehind**float **Magio.NullifyRuleSet.GetNullifyRuleLagBehind** (EffectClass *origin*, EffectClass *target*)

*Gets nullify rule parameters if it exists. Returns -1 if rule does not exist.*

#### Parameters

<i>origin</i>	origin class
<i>target</i>	Target class

#### Returns

-1 if rule does not exist. Else NullifyLagBehind\_m

## Magio.OAVAShaderCompatibilitySO Class Reference

Magio.OAVAShaderCompatibilitySOMagio.OAVAShaderCompatibilitySO

Compatibility with 3rd party shader. Compatible with **Magio** and Ignis

Inherits ScriptableObject.

### Classes

229 class **ShaderProperty**

### Public Attributes

230 string **ShaderCheckProperty** = ""

231 string **ShaderName** = ""

232 string **ShaderMainColorPropertyName** = "\_MainColor"

233 string **ShaderEmissionColorPropertyName** = ""

234 List< string > **onEffectStartEnableKeywords** = new List<string>()

235 List< MaterialGlobalIlluminationFlags > **onEffectStartEnableIlluminationFlag** = new  
List<MaterialGlobalIlluminationFlags>()

236 List< **ShaderProperty** > **duringEffectChangeProperties** = new List<**ShaderProperty**>()

237 List< **ShaderProperty** > **onBurnoutChangeProperties** = new List<**ShaderProperty**>()

238 List< **ShaderProperty** > **onTouchChangeProperties** = new List<**ShaderProperty**>()

---

### Detailed Description

Compatibility with 3rd party shader. Compatible with **Magio** and Ignis

## Magio.ParticleIgnite Class Reference

Magio.ParticleIgnite  
Adds ability to Ignite the effect using particles.  
Inherits MonoBehaviour.

### Public Attributes

239 float **IgnitePowerMultiplier** = 5f  
240 EffectClass **affectedClass** = EffectClass.Default  
241 GameObject **splashEffectPrefab**

---

### Detailed Description

Adds ability to Ignite the effect using particles.

## Magio.ParticleNullify Class Reference

Magio.ParticleNullifyMagio.ParticleNullify

Adds ability to Nullify/Extinguish the effect using particles.

Inherits MonoBehaviour.

### Public Attributes

242 float **particleNullifyRadius** = 1f

243 float **incrementalPower** = 0.0005f

244 EffectClass **affectedClass** = EffectClass.Default

---

### Detailed Description

Adds ability to Nullify/Extinguish the effect using particles.

## Magio.RaycastIgnite Class Reference

Magio.RaycastIgniteMagio.RaycastIgnite

Adds ability to Ignite the effect using raycast.

Inherits MonoBehaviour.

### Public Member Functions

245 void **CastRayCastIgnite** ()

*Casts a raycast sphere once looking for ignite the flammable objects. Uses the public variables for the parameters.*

### Public Attributes

246 Vector3 **direction** = new Vector3(0, -1, 0)

247 Vector3 **startOffset** = new Vector3(0, 0, 0)

248 float **checkFrequency** = 10

249 float **raycastRadius** = 0.1f

250 float **ignitePowerMultiplier** = 5f

251 float **maxDist** = 3f

252 LayerMask **mask** = ~0

253 EffectClass **affectedClass** = EffectClass.Default

254 bool **repeatingRaycast** = true

255 GameObject **splashEffectPrefab**

---

### Detailed Description

Adds ability to Ignite the effect using raycast.



## Magio.RaycastNullify Class Reference

Magio.RaycastNullify  
Adds ability to Nullify/Extinguish the effect using Raycast.  
Inherits MonoBehaviour.

### Public Member Functions

256 void **CastRayCastNullify** ()

*Casts a raycast sphere looking for extinguishing the flammable objects. Uses the public variables for the parameters.*

### Public Attributes

257 Vector3 **direction** = new Vector3(0, -1, 0)

258 Vector3 **startOffset** = new Vector3(0, 0, 0)

259 float **checkFrequency** = 10

260 float **raycastRadius** = 0.1f

261 float **radiusIncrement** = 0.01f

262 float **maxDist** = 3f

263 LayerMask **mask** = ~0

264 EffectClass **affectedClass** = EffectClass.Default

265 bool **repeatingRaycast** = true

266 bool **goThroughObjects** = true

---

### Detailed Description

Adds ability to Nullify/Extinguish the effect using Raycast.

## **Magio.SelfDestroy Class Reference**

Magio.SelfDestroyMagio.SelfDestroy

Destroys gameobject after a while.

Inherits MonoBehaviour.

### **Public Attributes**

267 float **destroyDelay** = 7

---

### **Detailed Description**

Destroys gameobject after a while.

## **Magio.OAVAShaderCompatibilitySO.ShaderProperty Class Reference**

### **Magio.OAVAShaderCompatibilitySO.ShaderPropertyMagio.OAVAShaderCompatibilitySO.ShaderPropertyPublic Attributes**

268 string **name** = ""

269 float **targetValue** = 0

270 float **speedMultiplier** = 1

## Magio.SimpleInteractWithEffect Class Reference

Magio.SimpleInteractWithEffectMagio.SimpleInteractWithEffect

A template for interacting with MagioEffect using **IInteractWithEffect** interface.

Inherits MonoBehaviour, and **Magio.IInteractWithEffect**.

### Public Member Functions

271 void **OnCollisionWithEffect** (GameObject magioObject)

*Called on collision with the effect **SpreadPhysics***

---

### Detailed Description

A template for interacting with MagioEffect using **IInteractWithEffect** interface.

---

### Member Function Documentation

**OnCollisionWithEffect:Magio.SimpleInteractWithEffectMagio.SimpleInteractWithEffect:OnCollisionWithEffectvoid**

**Magio.SimpleInteractWithEffect.OnCollisionWithEffect** (GameObject *magioObject*)

Called on collision with the effect **SpreadPhysics**

#### Parameters

<i>magioObject</i>	object which collides
--------------------	-----------------------

Implements **Magio.IInteractWithEffect** (*p.*).

## Magio.SphereIgnite Class Reference

Magio.SphereIgniteMagio.SphereIgnite

Adds ability to Ignite the effect using Spherecast.

Inherits MonoBehaviour.

### Public Member Functions

272 void **SphereIgniteCast** ()

*Casts a raycast sphere once looking for ignite the flammable objects. Uses the public variables for the parameters.*

### Public Attributes

273 float **checkFrequency** = 10

274 float **raycastRadius** = 1f

275 float **IgnitePowerMultiplier** = 5f

276 LayerMask **mask** = ~0

277 EffectClass **affectedClass** = EffectClass.Default

278 bool **repeatingRaycast** = true

279 GameObject **splashEffectPrefab**

---

### Detailed Description

Adds ability to Ignite the effect using Spherecast.

## Magio.SphereNullify Class Reference

Magio.SphereNullifyMagio.SphereNullify

Adds ability to Nullify/Extinguish the effect using Spherecast.

Inherits MonoBehaviour.

### Public Types

280 enum **NullifyMode** { **Area**, **Incremental** }

### Public Member Functions

281 void **SphereNullifyCast** ()

*Casts a raycast sphere once looking for ignite the flammable objects. Uses the public variables for the parameters.*

### Public Attributes

282 NullifyMode **nullifyMode** = NullifyMode.Area

283 float **checkFrequency** = 10

284 float **raycastRadius** = 1f

285 LayerMask **mask** = ~0

286 bool **repeatingRaycast** = true

287 EffectClass **affectedClass** = EffectClass.Default

---

### Detailed Description

Adds ability to Nullify/Extinguish the effect using Spherecast.

## Magio.SpreadNullify Class Reference

Magio.SpreadNullifyMagio.SpreadNullify

Nullifies the effect according to other effect (or own) spread.

Inherits MonoBehaviour.

### Public Attributes

288 float **nullifyBehindLag\_m** = 0.3f

289 **MagioObjectEffect spreader**

---

### Detailed Description

Nullifies the effect according to other effect (or own) spread.

## Magio.SpreadPhysics Class Reference

Magio.SpreadPhysicsMagio.SpreadPhysics

Spreading physics. Creates overlap box and uses math to spread the effect if necessary.

Inherits MonoBehaviour.

### Public Member Functions

290 void **StartTrigger** ()

*Starts the spread.*

291 void **SpreadPhysicsUpdate** ()

*One update call for spread physics.*

### Public Attributes

292 **MagioObjectEffect myMagioObj**

---

### Detailed Description

Spreading physics. Creates overlap box and uses math to spread the effect if necessary.



## Magio.VegetationStudioProTreeUnMasker Class Reference

Magio.VegetationStudioProTreeUnMaskerMagio.VegetationStudioProTreeUnMasker

Unmasks VSPRO instance if necessary (not ignited).

Inherits MonoBehaviour.

### Public Member Functions

293 void **Unmask** ()

*Unmask saved instance.*

### Public Attributes

294 GameObject **mask**

295 **MagioObjectEffect** **magioObj**

296 string **VegetationInstanceItemId**

---

### Detailed Description

Unmasks VSPRO instance if necessary (not ignited).

## Magio.MagioObjectEffect.VFXProps Struct Reference

### Magio.MagioObjectEffect.VFXPropsMagio.MagioObjectEffect.VFXPropsPublic Attributes

297 string **name**  
298 VFXParameterType **type**  
299 AnimationCurve **animationCurveValue**  
300 bool **boolValue**  
301 float **floatValue**  
302 Gradient **gradientValue**  
303 int **intValue**  
304 Matrix4x4 **matrixValue**  
305 Mesh **meshValue**  
306 SkinnedMeshRenderer **skinnedMeshRendererValue**  
307 Texture **textureValue**  
308 uint **uintValue**  
309 Vector2 **vector2Value**  
310 Vector3 **vector3Value**  
311 Vector4 **vector4Value**  
312 Color **colorValue**

## Magio.WindRetrieve Class Reference

Magio.WindRetrieveMagio.WindRetrieve

Used to retrieve global wind.

Inherits MonoBehaviour.

### Public Member Functions

313 bool **OnUse** ()

314 Vector3 **GetCurrentWindVelocity** ()

*Gets current global wind velocity (TVE or WINDZONE)*

---

### Detailed Description

Used to retrieve global wind.

---

### Member Function Documentation

**GetCurrentWindVelocity:Magio.WindRetrieveMagio.WindRetrieve:GetCurrentWindVelocityVector3 Magio.WindRetrieve.GetCurrentWindVelocity ()**

Gets current global wind velocity (TVE or WINDZONE)

#### Returns

Wind velocity

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