GlobeCore Object Model

Esri® ArcGIS® 10.8

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GlobeHelper

IGlobeHelperPub

IGlobeHelperPub : IUnknown

- AddGlobeProperties (in pLayer: ILayer, in pGlobeDisplay: IGlobeDisplay, in layerType: esriGlobeLayerType, in bIsOnMultiLayer: Boolean)
- AdjustGCS360 (in pLayer: ILayer)
- CreateAllCacheSubDirectoriesInPath (in fullPath: String)
- DeleteAllNewBLayerCachesInGlobeCachedirectory (in globeCacheFullPath: String)
- DeleteLayerCacheDirectory (in layerCacheFullPath: String)
- FindGlobeLayerProperties (in pLayer: ILayer, out ppGlobeLayerProperties: IGlobeLayerProperties)
- SetGroupLayerCache (in pGroupLayer: IGroupLayer, in bConsolidate: Boolean, in pGlobeDisplay: IGlobeDisplay, in bMapConsolidate: Boolean, in bStrictOnDemand: Boolean, in groupCacheName: String, out parentProps: IGlobeLayerProperties)
- SyncExtrusionProperties (in pLayer: ILayer)

Layer

ILayerExtensions

ILayerExtensions : IUnknown

- Extension (in lIndex: Long): IUnknown
- ExtensionCount: Long
- AddExtension (in ext: IUnknown)
- RemoveExtension (in lIndex: Long)

ILayer
IGeoDataset
IConnectionPointContainer
ILayerEvents
ILayerEffects

ILayerEffects : IUnknown

- Brightness: Integer
- Contrast: Integer
- SupportsBrightnessChange: Boolean
- SupportsContrastChange: Boolean
- SupportsInteractive: Boolean
- SupportsTransparency: Boolean
- Transparency: Integer

IPersistO
IPersistStream
IPublishLayer

GlobeLayer

IGlobeLayer
IDataLayer

IGlobeLayer : IUnknown

GlobeLayerFactory

ILayerFactory

ILayerFactory : IUnknown

- CanCreate (in inputObject: IUnknown): Boolean
- LayerCategory: String
- PublicName: String
- Create (in inputObject: IUnknown): IEnumLayer
- LoadLayers: IEnumLayer

IMSGlobeLayerFactory

ILayerFactory

ILayerFactory : IUnknown

- CanCreate (in inputObject: IUnknown): Boolean
- LayerCategory: String
- PublicName: String
- Create (in inputObject: IUnknown): IEnumLayer
- LoadLayers: IEnumLayer

GlobeGraphicsLayer

IGlobeGraphicsLayer

IGlobeGraphicsLayer : IUnknown

- HasPerElementIllumination: Boolean
- HasVisibleRasterizedElements: Boolean
- IsHiDen: Boolean
- IsSelectable: Boolean
- RasterizedSymbologyScalingFactor: Double
- AddElement (in pElement: IElement, in pProps: IGlobeGraphicsElementProperties, out pElementIndex: Long)
- FindElement (in lName: String, out pElement: IElement, out pElementIndex: Long)
- FindElementIndex (in pElement: IElement, out pElementIndex: Long)
- GetElementName (in pElement: IElement, out pName: String)
- GetElementTransformation (in elementIndex: Long, out ppTrans: IVector3D, out ppScale: IVector3D, out ppRotate: IVector3D)
- GetGlobeProperties (in pElement: IElement, out ppProps: IGlobeGraphicsElementProperties)
- GetIsElementVisible (in elementIndex: Long, out pbVisible: Boolean)
- PutElementName (in pElement: IElement, bName: String)
- PutIsElementVisible (in elementIndex: Long, in bVisible: Boolean)
- SetElementTransformation (in elementIndex: Long, in pTrans: IVector3D, in pScale: IVector3D, in pRotate: IVector3D)
- SetGlobeProperties (in pElement: IElement, in pProps: IGlobeGraphicsElementProperties)
- UpdateAllElements
- UpdateElementByIndex (in elementIndex: Long)

IGraphicsLayer
IGraphicsContainer
IGraphicsContainer3D
IGraphicsSelection
IActiveViewEvents
IXMLSerialize
IXMLVersionSupport

GlobeGraphicElementPropsStreamArray

IGlobeGraphicElementPropsStreamArray

IGlobeGraphicElementPropsStreamArray : IUnknown

- Count: Long
- Element (in index: Long): IGlobeGraphicsElementProperties
- Add (in pElement: IGlobeGraphicsElementProperties)
- Insert (in index: Long, in pElement: IGlobeGraphicsElementProperties)
- Remove (in index: Long)
- RemoveAll

IXMLSerialize
IPersistStream
IPersistO
IXMLVersionSupport

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GlobeGraphicsElementProperties

IGlobeGraphicsElementProperties

IGlobeGraphicsElementProperties : IUnknown

- CallOutLineSymbol: ISimpleLineSymbol
- DrapedDensificationDistance: Double
- DrapeElement: Boolean
- DrapeQuality: Boolean
- DrapeZOffset: Double
- FixedScreenSize: Boolean
- Illuminate: Boolean
- OrientationMode: esriGlobeGraphicsOrientation
- Rasterize: Boolean
- UseCallOutLine: Boolean
- GetCallOutLineOffset (out pLongitudeInDegrees: Double, out pLatitudeInDegrees: Double, out pAltitudeInMeters: Double)
- PutCallOutLineOffset (in longitudeInDegrees: Double, in latitudeInDegrees: Double, in altitudeInMeters: Double)

CustomGlobeLayer

ICustomGlobeLayer

ICustomGlobeLayer : IUnknown

- DrawType: esriGlobeCustomDrawType
- HandlesLocalOrigin: Boolean
- LocalOrigin: WKSPointZ
- MinimumCellSize: Double
- SymbologyScalingFactor: Double
- UseCache: Boolean
- DrawImmediate (in pGlobeViewer: IGlobeViewer)
- GetTile (in lLevel: Long, in lFace: Long, in lLevel: Long, in row: Long, in col: Long, out pData: BYTE[])
- Hit (in hitObjectID: Long, in pHit3D: IHitSD)

GeoVideoLayer

IGeoVideoLayer
ILayer
ILayerExtensions
ILayerEvents
ILayerEffects
IDataLayer
IGeoDataset
IConnectionPointContainer
IPersistStream
IPersistO
IPublishLayer
ILayerInfo

IGeoVideoLayer : IUnknown

- EastForward: Double
- GeoVideoLayerState: Variant
- Pause: Boolean
- Play: Boolean
- PlaySpeed: Double
- Restart: Boolean
- Rewind: Boolean
- Stop: Boolean

GeoVideoLayerFactory

ILayerFactory

KmlServer

IServerObjectExtension

IServerObjectExtension : IUnknown

- Init (in pSOH: IServerObjectHelper)
- Shutdown

IObjectConstruct
ILogSupport
IKmlServer

IKmlServer : IUnknown

- GetData (in sRequest: String): BYTE[]
- GetDUst: IPropertySet

KmlLayer

IKmlLayer

IKmlLayer : ILayer

- DataPath: String
- LabelsVisible: Boolean
- MaximumRefreshInterval: Long
- MinimumRefreshInterval: Long
- RefreshVisibleNodes

ILayer
IConnectionPointContainer
IPersistStream
IPersistO
IGeoDataset

IGeoDataset : IUnknown

- Extent: IEnvelope
- SpatialReference: ISpatialReference

IDataLayer
IDisplayAdmin
IDataLayer2

IDataLayer2 : IUnknown

- DataSourceName: IName
- DataSourceSupported (in Name: IName): Boolean
- RelativeBase: String

ILayerInfo
ILayerEffects
ILayerPosition
ILayerExtensions
IPublishLayer
ILayerGeneralProperties

- Connect (in pOpRepairName: IName): Boolean
- Disconnect
- InWorkspace (in Workspace: IWorkspace): Boolean

KmlConvertor

IKmlConvertor

IKmlConvertor : IUnknown

- BBox: IEnvelope
- Composite: Boolean
- DPI: Long
- EndPointUrl: String
- FeatureLimit: Long
- IconSize: Long
- IgnoreScaleFactor: Boolean
- IgnoreVisibility: Boolean
- ImageSize: Long
- KmlParameters: IPropertySet
- LayerDUst: IPropertySet
- LayerIDs: String
- PaletteSize: Long
- Scale: Double
- VectorToRasters: Boolean
- WorkingDirectory: String
- ConvertToArray: BYTE[]
- ConvertToFile (in fName: String)
- SetMap (in pMap: IMap)

Globe

IGlobe2
IMap

IGlobe2 : IGlobe

- DanglingCachesCount: Long
- ReportLayersInDrawingOrder: Boolean
- RefreshGroupLayer (in pLayer: ILayer)

IGlobe
IScene
IBasicScene
IActiveView

IGlobe : IUnknown

- DefaultGlobeBackgroundOption: esriGlobeBackgroundOption
- GlobeDisplay: IGlobeDisplay
- GlobeLayers (in pUID: IUID, in bRecursive: Boolean, in bInBaseGlobe: Boolean, in bSortedByDrawingPriority: Boolean): IEnumLayer
- GlobeUnits: esriUnits
- ShowGlobeTips: esriGlobeTipsType
- AddLayerType (in pLayer: ILayer, in layerType: esriGlobeLayerType, in autoArrange: Boolean)
- GetDefaultBackgroundTransitionDistances (out pLowAltitude: Single, out pHighAltitude: Single)
- GetDefaultHighBackgroundColor (out Red: Single, out Green: Single, out Blue: Single)
- GetDefaultLowBackgroundColor (out Red: Single, out Green: Single, out Blue: Single)
- SetDefaultBackgTransitionDistances (in lowAltitude: Single, in highAltitude: Single)
- SetDefaultHighBackgroundColor (in Red: Single, in Green: Single, in Blue: Single)
- SetDefaultLowBackgroundColor (in Red: Single, in Green: Single, in Blue: Single)

IBasicScene2

IBasicScene2 : IBasicScene

- AnimationExtension: IAnimationExtension

IBasicMap

IBasicMap : IUnknown

- ActiveGraphicsLayer: ILayer
- AreaOfInterest: IEnvelope
- BasicGraphicsLayer: IGraphicsLayer
- Description: String
- FeatureSelection: ISelection
- Layer (in lIndex: Long): ILayer
- LayerCount: Long
- Layers (in uid: IUID, in recursive: Boolean): IEnumLayer
- Name: String
- SelectionCount: Long
- SpatialReference: ISpatialReference
- AddLayer (in pLayer: ILayer)
- AddLayers (in pLayers: IEnumLayer, in autoArrange: Boolean)
- ClearLayers
- ClearSelection
- DeleteLayer (in pLayer: ILayer)
- SelectByShape (in pShape: IGeometry, in env: ISelectionEnvironment, in bUseOne: Boolean)

IAGAnimationTracks

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IAGAnimationTracks : IUnknown

- AGTracks: IArray
- AnimationObjectContainer: IAGAnimationContainer
- TrackCount: Long
- TracksOfType (in pType: esriAGAnimationType): IArray
- AddTrack (in pTrack: IAGAnimationTrack)
- ApplyTracks (in bApplyToAllViewers: Boolean, in time: Double)
- ChangePriority (in pTrack: IAGAnimationTrack, in bAbsolute: Boolean, in bInSameType: Boolean, in changeInIndex: Long)
- CreateTrack (in pType: IAGAnimationType): IAGAnimationTrack
- DeleteObject (in pObject: IUnknown)
- FindTrack (in lName: String, out ppTrack: IAGAnimationTrack)
- LoadTracks (in pStm: IStream)
- RefreshAttachedObjects
- RemoveAllTracks
- RemoveTrack (in pTrack: IAGAnimationTrack)
- SaveTracks (in pStm: IStream)

IAGAnimationContainer

IAGAnimationContainer : IUnknown

- AllViews: IArray
- AnimationReExtension: String
- AnimationReFilter (in bAllVersions: Boolean): String
- AnimationTime: ElementArray
- AnimationTypes: IArray
- AnimationUnits: IUnknown
- bIsGestureEnabled: Boolean
- SpatialBookmarks: IArray
- ViewController (in pViewer: IUnknown): IUnknown
- WindowHandle (in pView: IUnknown): OLE_HANDLE
- DrawGraphicsToDC (in hDC: OLE_HANDLE)
- DrawPageLayoutToDC (in hDC: OLE_HANDLE)
- RefreshViews (in bAnimating: Boolean, in bFullQuality: Boolean)
- RefreshViews (in pObject: IUnknown)
- RefreshViews (in bRefreshAllViewers: Boolean)
- RemoveAllAnimationTimeStrings (in pTracks: IAGAnimationTracks)
- RemoveTrackTimeDisplay (in pTrack: IAGAnimationTrack)
- RestoreViewerStates (in bApplyRestored: Boolean)
- SaveViewerStates

IMapGeographicTransformations

IMapGeographicTransformations : IUnknown

- GeographicTransformations: IGridTransformationOperationSet

GlobeTileGenerator

IGlobeTileGenerator

IGlobeTileGenerator : IUnknown

- Display: IGlobeDisplay
- Layer: ILayer
- LayerProperties: IGlobeLayerProperties
- MaxTileCount: Long
- DeleteTiles (in pGlobeServer: IGlobeServer, in LayerID: Long, in bIsMultiMasterized: Boolean, in maxLOD: Long, in pCancelTracker: ITrackCancel)
- Exit
- GenerateConfigFiles
- GenerateTile (in face: Long, in level: Long, in row: Long, in column: Long): BYTE[]
- GenerateTiles (in pGlobeServer: IGlobeServer, in LayerID: Long, in pExtent: IEnvelope, in minLOD: Long, in maxLOD: Long, in pCancelTracker: ITrackCancel)
- PutTileProtoBin (in face: Long, in level: Long, in row: Long, in column: Long)
- QueryTilePosition (out pFace: Long, out pLevel: Long, out pRow: Long, out pColumn: Long)
- UpdateTiles (in pGlobeServer: IGlobeServer, in LayerID: Long, in pExtent: IEnvelope, in minLOD: Long, in maxLOD: Long, in updateMode: esriGlobeUpdateMode, in pCancelTracker: ITrackCancel)

GlobeHeightProperties

IGlobeHeightProperties

IGlobeHeightProperties : IUnknown

- BaseLayer: ILayer
- ElevationBaseGlobeLayerBaseOption
- ElevationExpression: bExpression
- ElevationExpressionString: String
- ExtrusionExpression: IExpression
- ExtrusionExpressionString: String
- ExtrusionType: esriExtrusionType
- HasElevationValues: Boolean
- Offset: Double
- UseElevationValues: Boolean
- ZFactor: Double
- Apply (in pGlobe: IGlobe, in pLayer: ILayer)
- ApplyFeatureProperties (in pDisplay: IGlobeDisplay, in pFeature: IFeature, out ppNewGeometry: IGeometry, in bIgnoreOffsetAndScale: Boolean)

IGlobeHeightProperties2

IGlobeHeightProperties2 : IGlobeHeightProperties

- BottomlessExtrusions: Boolean

GlobeViewer

IGlobeViewer

IGlobeViewer : IUnknown

- GlobeDisplay: IGlobeDisplay
- HUDEnabled: Boolean
- NorthArrowEnabled: Boolean
- SpinSpeed: Double
- GetIsTargetAtCenter (out pbAtCenter: Boolean, out pIndexGlobe: Long)
- StartSpinning (in SpinDirection: esriGlobeSpinDirection)
- StopSpinning

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GlobeDisplay

IGlobeDisplay3
IActiveViewEvents
IConnectionPointContainer
IGlobeStatInfo
IGlobeDisplayEvents

IGlobeDisplay3 : IGlobeDisplay2

- DirectOpenGLDraw: Boolean
- DrahMode: Boolean
- bIsFetchingSuspendedWhenNavigating: Boolean
- LocateLayersEx (in pViewer: ISceneViewer, in xView: Long, in yView: Long, in searchRadPixels: Long, in pLayers: IEnumLayer, in bGetLocation: Boolean, in bSortTransformed: Boolean, in bGetEmptyGlobe: Boolean, in bFeaturesOnly: Boolean, in bTapMost: Boolean, out ppHits: IHitSDSet, in pTrackCancel: ITrackCancel)
- PickGraphic (in pViewer: ISceneViewer, in xView: Long, in yView: Long, out Owner: IGraphicsContainer3D, out elementIndex: Long)
- QueryLocation (in pViewer: ISceneViewer, in x: Long, in y: Long, in mode: esriScenePickMode, in bGetTransformed: Boolean, in pPt: IPoint)

IGlobeDisplay2

IGlobeDisplay2 : IGlobeDisplay

- PauseCaching: Boolean
- PauseFetching: Boolean

IGlobeDisplay

IGlobeDisplay : IViewers3D

- AdvancedOptions: IGlobeAdvancedOptions
- CacheUsage (in CachePath: String, in bUpdate: Boolean): Double
- EnableMessages: Boolean
- Globe: IGlobe
- ImmediateDataFetching: Boolean
- SelectionEnv: IEnvironment
- Clear (in bRecycleBasicObjects: Boolean)
- GetSurfaceElevation (in longitude: Double, in latitude: Double, in bGetMaxResolution: Boolean, out pElevationInMeters: Double)
- GetSurfacePoint (in xView: Double, in yView: Double, in interpGlobe: Long, out ppIntersec: IPoint)
- Locate (in pViewer: ISceneViewer, in xView: Long, in yView: Long, in bGetTransformed: Boolean, in bGetEmptyGlobe: Boolean, out ppOwner: IUnknown, out ppObject: IUnknown)
- LocateFeature (in pViewer: ISceneViewer, in xView: Long, in yView: Long, out ppOwner: IUnknown, out ppObject: IUnknown)
- LocateFeatures (in pViewer: ISceneViewer, in xView: Long, in yView: Long, in searchRadPixels: Long, in pTrans: IVector3D, in pScale: IVector3D, in pRotate: IVector3D)
- SetFeatureVisibility (in pLayer: ILayer, in featureID: Long, in bVisible: Boolean, in bTransparency: Long)

IViewers3D

IViewers3D : IUnknown

- ActiveViewer: ISceneViewer
- GestureEnabled: Boolean
- bIsNavigating: Boolean
- Scene: IScene
- FindViewer (in Caption: String): ISceneViewer
- GetAllViewers: IArray
- GetBackgroundColor (out pRed: Single, out pGreen: Single, out pBlue: Single)
- RefreshViews
- RegisterViewer (in pViewer: ISceneViewer)
- ReplayFrame (in pCamera: ICamera)
- SetBackgroundColor (in red: Single, in green: Single, in blue: Single)
- UnregisterViewer (in pViewer: ISceneViewer)

IGlobeDisplayLayers

IGlobeDisplayLayers : IUnknown

- BaseLayers: IArray
- bIsLayerVisible (in pLayer: ILayer): Boolean
- LayerTransparency (in pLayer: ILayer): Integer
- ParentsAreVisible (in pLayer: ILayer): Boolean
- AddLayer (in pLayer: ILayer)
- ApplyHeightProperties (in pGLayer: ILayer)
- FindGlobeProperties (in pLayer: ILayer, out ppGlobeLayerProperties: IGlobeLayerProperties)
- GenerateTiles (in pLayer: ILayer, in fromLod: Long, in toLod: Long)
- GetMaximumLayerLOD (in pLayer: ILayer): Long
- RefreshLayer (in pLayer: ILayer)
- RefreshLayerSelection (in pLayer: ILayer)
- RefreshTextureDisplayLayer (in pLayer: ILayer)
- RemoveLayer (in pLayer: ILayer)
- Reparent (in pLayer: ILayer, in newParent: IComposite)
- SetLayerDepthPriority (in pLayer: ILayer, in depthPrior: Long)
- SetLayerFaceCulling (in pLayer: ILayer, in pLimitMode: esriFaceCulling)
- SetLayerLighting (in pLayer: ILayer, in bIsIlluminated: Boolean)
- SetLayerShadingMode (in pLayer: ILayer, in bSmooth: Boolean)

IGlobeDisplayLayers2

IGlobeDisplayLayers2 : IGlobeDisplayLayers

- GenerateTilesOverwrites: Boolean
- StretchDemandMode (in pLayer: ILayer): Boolean
- TextureCompressionType (in pLayer: ILayer): esriTextureFormatType
- TextureDisplayType (in pLayer: ILayer): esriTextureFormatType
- TextureDownsamplingFactor (in pLayer: ILayer): Double

IGlobeDisplayRendering

IGlobeDisplayRendering : IUnknown

- AmbientLight: Single
- BaseExaggeration: Double
- GlobeBackgroundOption: esriGlobeBackgroundOption
- GlobeRadius: Double
- bIsGeEnabled: Boolean
- OverlayExaggeration: Double
- SunContrast: Single
- GetBackgroundTransitionDistances (out pLowAltitude: Single, out pHighAltitude: Single)
- GetLowBackgroundColor (out Red: Single, out Green: Single, out Blue: Single)
- GetSunColor (out pSunRed: Single, out pSunGreen: Single, out pSunBlue: Single)
- GetSunPosition (out pLatitude: Double, out pLongitude: Double)
- SetBackgroundTransitionDistances (in lowAltitude: Single, in highAltitude: Single)
- SetLowBackgroundColor (in Red: Single, in Green: Single, in Blue: Single)
- SetSunColor (in sunRed: Single, in sunGreen: Single, in sunBlue: Single)
- SetSunPosition (in latitude: Double, in longitude: Double)

Navigate3DView

INavigate3DView

INavigate3DView : IUnknown

- Begin (pCamera: ICamera)
- End
- MoveForwardBackward (distance: Double)
- MoveLeftRight (distance: Double)
- MoveUpDown (distance: Double)
- Rotate (in pt: Double, incl: Double, Roll: Double)

GlobeCamera

ICamera

ICamera : IUnknown

- Azimuth: Double
- Inclination: Double
- bIsJustAbc: Boolean
- MultiPhaseRendering: Boolean
- Observer: IPoint
- OrthoViewingExtent: IEnvelope
- ProjectionType: esriSDKProjectionType
- RollAngle: Double
- Scale: Double
- Target: IPoint
- UpDirection: IVector3D
- VerticalExaggeration: Double
- ViewFieldAngle: Double
- ViewingDistance: Double
- CanSeeMBB (in pExtent: IEnvelope): Boolean
- CanSeeSphere (in pCenter: IPoint, in radius: Double): Boolean
- GetIdentifyRay (in dx: Long, in dy: Long): IRay
- GetIdentifyVector (in pCursor: IPoint): IVector3D
- HTurnAround (in dAzimuth: Double)
- LevelObsToTarget
- LevelTargetToObs
- Move (in direction: esriCameraMovementType, in factor: Double)
- Pan (in startPoint: IPoint, in endPoint: IPoint)
- PolarUpdate (in distanceFactor: Double, in dAzimuth: Double, in dInclination: Double, in bUseInclination: Boolean)
- PropertiesChanged
- QueryDistanceToMBB (in pExtent: IEnvelope, out distance: Double)
- QueryDistanceToSphere (in pCenter: IPoint, in radius: Double, out distance: Double)
- QueryDistanceToSphereCenter (in pCenter: IPoint, in radius: Double, out distance: Double)
- QueryIdentifyVector (in dx: Long, in dy: Long, in pIdentifyVect: IVector3D)
- QueryOrthoViewingPlatform (in pExtent: IEnvelope, in pOutExtent: IEnvelope, out pScale: Double)
- QueryViewingPlatformMBB (in pExtent: IEnvelope, out pNearPlane: Double, out pFarPlane: Double, out pAngle: Double, out pAspect: Double)
- QueryViewingPlatformSphere (in pCenter: IPoint, in radius: Double, out pNearPlane: Double, out pFarPlane: Double, out pAngle: Double, out pAspect: Double)
- RecalcUp
- ReplayFrame (in pSceneGraph: ISceneGraph)
- Rotate (in Angle: Double)
- SetDefaultsMBB (in pExtent: IEnvelope)
- SetDefaultsSphere (in pCenter: IPoint, in radius: Double)
- Zoom (in ratio: Double)
- ZoomToRect (in pExtent: IEnvelope)

IGlobeCamera

IGlobeCamera : IUnknown

- OrientationMode: esriGlobeCameraOrientationMode
- RollOffset: Double
- GetAccurateViewDirection (out pViewX: Double, out pViewY: Double, out pViewZ: Double)
- GetFrustumSkewRect (out xmin: Double, out xmax: Double, out ymin: Double, out ymax: Double)
- GetLocalOrientation (out plocalAzi: Double, out pLocalIncl: Double, out plocalRoll: Double)
- GetObserverLatLonAlt (out platDD: Double, out plonDD: Double, out paltMs: Double)
- GetTargetLatLonAlt (out platDD: Double, out plonDD: Double, out paltMs: Double)
- SetAccurateViewDirection (in viewX: Double, in viewY: Double, in viewZ: Double)
- SetFrustumSkewRect (in xmin: Double, in xmax: Double, in ymin: Double, in ymax: Double)
- SetObserverLatLonAlt (in latDD: Double, in lonDD: Double, in altKMs: Double)
- SetTargetLatLonAlt (in latDD: Double, in lonDD: Double, in altKMs: Double)
- SetToZoomToExtents (in pExtent: IEnvelope, in pGlobe: IGlobe, in pSceneViewer: ISceneViewer)

IGlobeViewUtil

IGlobeViewUtil : IUnknown

- LocalOrigin (in x: Double, in y: Double): Double
- ScalingDistance: Double
- GeocentricToGeographic (in x: Double, in y: Double, in z: Double, out pLong_dd: Double, out plat_dd: Double, out pElev_meters: Double)
- GeocentricToWindow (in x: Double, in y: Double, in z: Double, out pWinX: Long, out pWinY: Long)
- GeographicToGeocentric (in long_dd: Double, in lat_dd: Double, in elev_meters: Double, out pX: Double, out pY: Double, out pZ: Double)
- GeographicToWindow (in long_dd: Double, in lat_dd: Double, in elev_meters: Double, out pWinX: Long, out pWinY: Long)
- GetIsPointVisible (in x: Double, in y: Double, in z: Double, out pOutsideView: Boolean, out pTooClose: Boolean, out pTooFar: Boolean)
- GetViewingFrustum (out pNearBottomLeft: WKSPointZ, out pNearBottomRight: WKSPointZ, out pNearTopLeft: WKSPointZ, out pNearTopRight: WKSPointZ, out pFarBottomLeft: WKSPointZ, out pFarBottomRight: WKSPointZ, out pFarTopLeft: WKSPointZ, out pFarTopRight: WKSPointZ)
- QueryVisibleGeographicExtent (Extent: IEnvelope)
- SetTargetAtCenter
- WindowToGeocentric (in pDisplay: IGlobeDisplay, in pViewer: ISceneViewer, in winX: Long, in winY: Long, in bUseZBufferVal: Boolean, out pX: Double, out pY: Double, out pZ: Double)
- WindowToGeographic (in pDisplay: IGlobeDisplay, in pViewer: ISceneViewer, in winX: Long, in winY: Long, in bUseZBufferVal: Boolean, out pLon: Double, out pLat: Double, out pAlt: Double)

GlobeAdvancedOptions

IGlobeAdvancedOptions

IGlobeAdvancedOptions

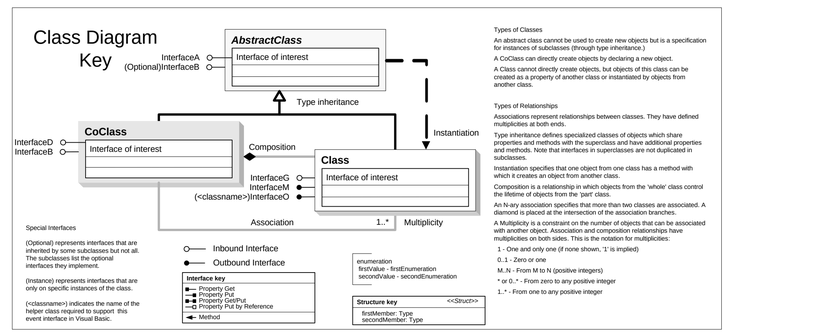
- CachePath: String
- ClipFarFactor: Double
- ClipNear: Double
- DefaultUse16ColorBits: Boolean
- DefaultUse16ElevBits: Boolean
- bLossyCompressionSupported (in Type: esriGlobeDataType): Boolean
- LevelOfDetail (in Type: esriLODType): Double
- ManualLOD: Boolean
- TargetFrameRate: Double
- TileMemorySize: Long
- UpdateCacheMonthlyPrompt: Boolean
- VectorTileSize: Long
- GetDefaultCompression (in Type: esriGlobeDataType, out pLossyCompression: Boolean, out pQuality: Integer)
- GetUseCache (out pUseDiskCache: Boolean, out pSizeInMb: Double)
- RestoreClipPlaneDefaults
- RestoreLODDefaults
- SetDefaultCompression (in Type: esriGlobeDataType, in bLossyCompression: Boolean, in quality: Integer)
- SetUseCache (in bUseDiskCache: Boolean, in sizeInMb: Double)
- WriteToRegistry

IGlobeAdvancedOptions2

IGlobeAdvancedOptions2

- GetTileMemory (in Type: esriGlobeTileMemoryType, out pLimitMb: Long, out pCurrentMb: Long)
- GetVirtualViewportSize (out pWidth: Long, out pHeight: Long)
- SetTileMemory (in Type: esriGlobeTileMemoryType, in limitMb: Long)
- SetVirtualViewportSize (in width: Long, in height: Long)

Class Diagram Key



Types of Classes

An abstract class cannot be used to create new objects but is a specification for instances of subclasses (through type inheritance.)

A CoClass can directly create objects by declaring a new object.

A Class cannot directly create objects, but objects of this class can be created as a property of another class or instantiated by objects from another class.

Types of Relationships

Associations represent relationships between classes. They have defined multiplicities at both ends.

Type inheritance defines specialized classes of objects which share properties and methods with the superclass and have additional properties and methods. Note that interfaces in superclasses are not duplicated in subclasses.

Instantiation specifies that one object from one class has a method with which it creates an object from another class.

Composition is a relationship in which objects from the 'whole' class control the lifetime of objects from the 'part' class.

An N-ary association specifies that more than two classes are associated. A diamond is placed at the intersection of the association branches.

A Multiplicity is a constraint on the number of objects that can be associated with another object. Association and composition relationships have multiplicities on both sides. This is the notation for multiplicities:

1 - One and only one (if none shown, '1' is implied)

0..1 - Zero or one

M..N - From M to N (positive integers)

* or 0..* - From zero to any positive integer

1..* - From one to any positive integer

esriAnimation.IAGAnimationType

AGGlobeAnimationType

IAGAnimationType

- AnimationClass: esriAnimationClass
- AnimationObjectID (in pContainer: IAGAnimationContainer, in objectID: Long): Variant
- AnimationObjectID (in pContainer: IAGAnimationContainer, in pObject: Variant): Long
- AnimationObjectName (in pContainer: IAGAnimationContainer, in pObject: Variant): String
- AppliesToObject (in pObject: Variant): Boolean
- CLSID: IUID
- KeyframeCLSID: IUID
- Name: String
- ObjectArray (in pContainer: IAGAnimationContainer): IArray
- PropertyCount: Long
- PropertyName (in index: Long): String
- PropertyType (in index: Long): esriAnimationPropertyType
- ResetObject (in pContainer: IAGAnimationContainer, in pObject: Variant)
- UpdateTrackExtensions (in pTrack: IAGAnimationTrack)

esriCarto.IGlobeDocument

IDocumentInfo
IDocumentInfo2
IDocumentPreview
IDocumentVersion

GlobeDocument

IGlobeDocument

- DocumentFilename: String
- DocumentType: esriGlobeDocumentType
- DocumentVersion: esriGlobeDocumentVersionInfo
- GlobeObject: IUnknown
- bIsGlobeDocument (in bsDocument: String): Boolean
- bIsPasswordProtected (in bsDocument: String): Boolean
- isPresent (in bsDocument: String): Boolean
- bIsReadOnly (in bsDocument: String): Boolean
- bIsRestricted (in bsDocument: String): Boolean
- Layer (in ILayerIndex: Long): ILayer
- LayerCount: Long
- Thumbnail: IPicture
- UsesRelativePaths: Boolean
- Close
- GetVersionInfo (in pbVersionNoMissing: Boolean, in pMajor: Long, in pMinor: Long, in pRevision: Long, in pBuild: Long)
- New (in bsDocument: String)
- Open (in bsDocument: String, in bsPassword: String)
- Save (in bUseRelativePaths: Boolean, in bCreateThumbnail: Boolean)
- SaveAs (in bsDocument: String, in bUseRelativePaths: Boolean, in bCreateThumbnail: Boolean)

AnimationTypeGlobeCamera

AnimationTypeGlobeLayer

esriAnimation.IAGKeyframe

AGGlobeKeyframe

IAGKeyframe

- ActiveProperties: ILongArray
- AnimationType: IAGAnimationType
- IsActiveProperty (in propIndex: Long): Boolean
- Name: String
- ObjectNeedsRefresh: Boolean
- PropertyValue (in propIndex: Long): Variant
- TimeStamp: Double
- Apply (in pTrack: IAGAnimationTrack, in pContainer: IAGAnimationContainer, in pObject: Variant)
- CaptureProperties (in pContainer: IAGAnimationContainer, in pObject: Variant)
- Interpolate (in pTrack: IAGAnimationTrack, in pContainer: IAGAnimationContainer, in pObject: Variant, in propertyIndex: Long, in time: Double, in pNextKeyframe: IAGKeyframe, in pPrevKeyframe: IAGKeyframe, in pAfterNextKeyframe: IAGKeyframe)
- RefreshObject (in pTrack: IAGAnimationTrack, in pContainer: IAGAnimationContainer, in pObject: Variant)

GlobeCameraKeyframe

GlobeLayerKeyframe

KmlServer

IServerObjectExtension

IServerObjectExtension : IUnknown

- Init (in pSOH: IServerObjectHelper)
- Shutdown

IObjectConstruct

IObjectConstruct : IUnknown

- Construct (in props: IPropertySet)

ILogSupport

ILogSupport : IUnknown

- InitLogging (in Log: ILog)

IKmlServer

IKmlServer : IUnknown

- GetData (in sRequest: String): BYTE[]

Enumerations

esriGlobeBackgroundOption
0 - esriGlobeBackgroundTransition
1 - esriGlobeBackgroundSingle

esriGlobeCameraOrientationMode
0 - esriGlobeCameraOrientationGlobal
1 - esriGlobeCameraOrientationLocal

esriGlobeDataType
-1 - esriGlobeDataInvalid
0 - esriGlobeDataTexture
1 - esriGlobeDataElevation
2 - esriGlobeDataVector
3 - esriGlobeDataText
4 - esriGlobeDataObject
5 - esriGlobeDataPoint

esriGlobeImageSamplingMode
0 - esriGlobeImageSamplingNearest
1 - esriGlobeImageSamplingSmooth

esriGlobeLayerBaseGlobe
0 - esriGlobeLayerBaseGlobe
1 - esriGlobeLayerBaseExpression
2 - esriGlobeLayerBaseLayer
3 - esriGlobeLayerBaseSelf

esriGlobeLayerCacheRemovalOption
-1 - esriGlobeLayerRemovalInvalid
0 - esriGlobeLayerNoRefreshRemoval
1 - esriGlobeLayerWholeRemoval
2 - esriGlobeLayerExtRefreshRemoval

esriGlobeLayerType
0 - esriGlobeLayerTypeUnknown
1 - esriGlobeLayerTypeDraped
2 - esriGlobeLayerTypeElevation
3 - esriGlobeLayerTypeFloating

esriGlobeNavigationType
0 - esriGlobeNavigationAttached
1 - esriGlobeNavigationFree

esriGlobeSpinDirection
0 - esriClockwise
1 - esriCounterClockwise

esriGlobeSStat
0 - esriFrameRate
1 - esriFrameRateNavig
2 - esriTileRequestQueue
3 - esriDataFromDisk
4 - esriDataFromNetwork
5 - esriCacheUsage

esriLODType
0 - esriLodImage
1 - esriLodElevation

esriGlobeTipsType
0 - esriGlobeTipsTypeNone
1 - esriGlobeTipsTypeLatLon
2 - esriGlobeTipsTypeElevation
3 - esriGlobeTipsTypeLatLonElevation

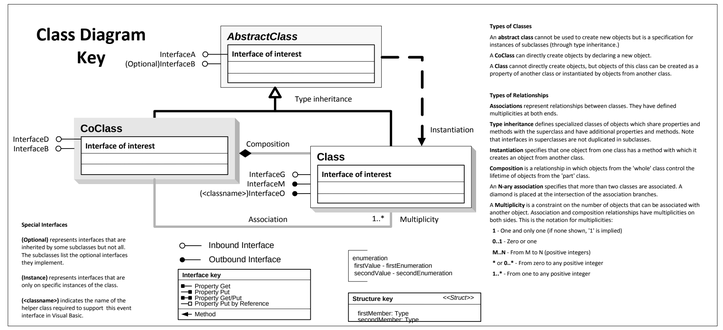
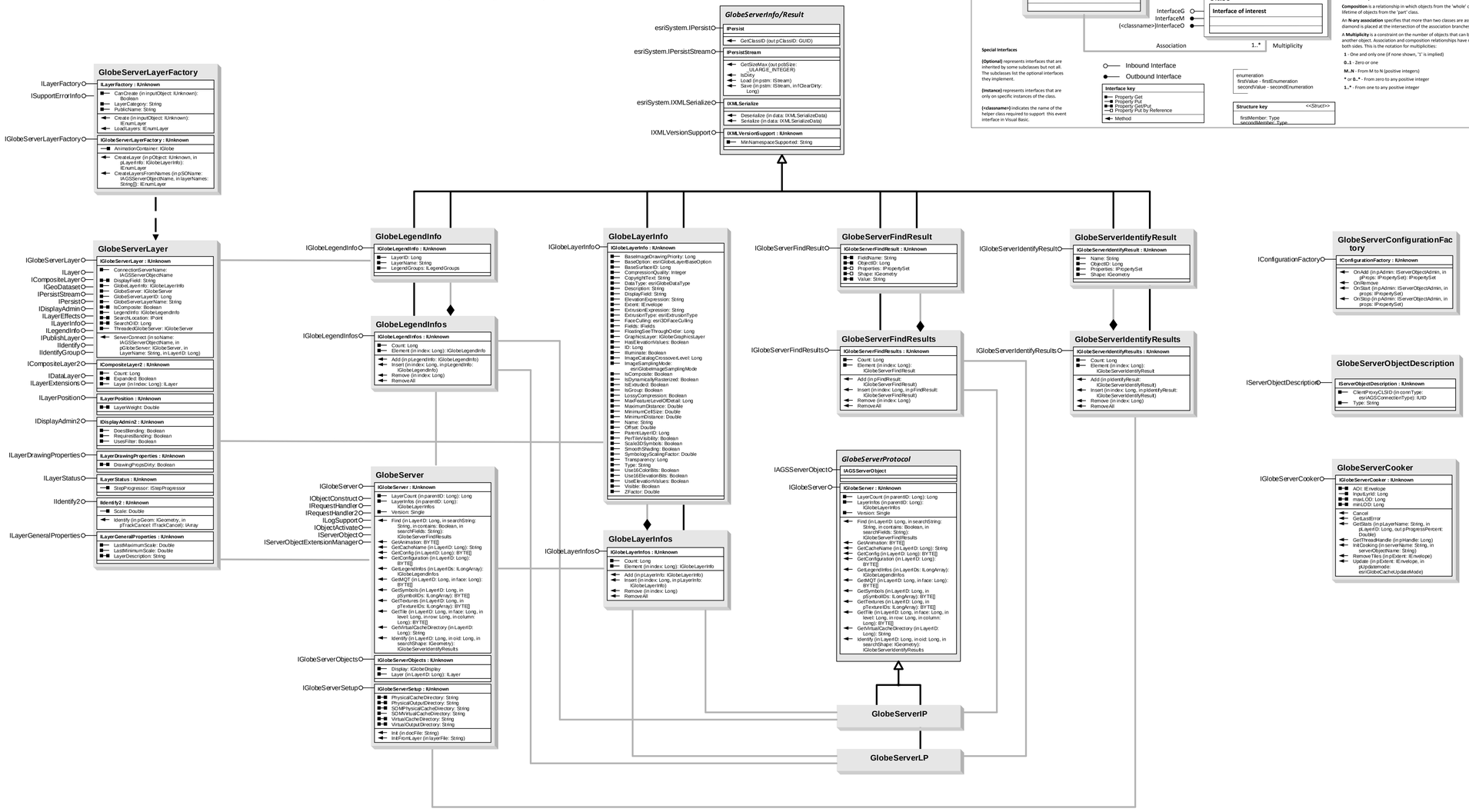
esriGlobeGraphicsOrientation
0 - esriGlobeGraphicsOrientationDefault
1 - esriGlobeGraphicsOrientationGlobal
2 - esriGlobeGraphicsOrientationLocal

esriGlobeTileMemoryType
0 - esriGlobeMemoryImage
1 - esriGlobeTileMemoryElevation
2 - esriGlobeTileMemoryPoint
3 - esriGlobeTileMemoryLine
4 - esriGlobeTileMemoryRaster
5 - esriGlobeTileMemory3DTexture
6 - esriGlobeTileMemoryText

esriGlobeCustomDrawType
1 - esriGlobeCustomDrawRasterize
2 - esriGlobeCustomDrawByTile
3 - esriGlobeCustomDrawOpenGL
5 - esriGlobeCustomDrawOpenGLAndRasterize
8 - esriGlobeCustomDrawVector

esriGlobeCacheUpdateMode
0 - esriGlobeCacheUpdateRecreateMissing
1 - esriGlobeCacheUpdateRecreateAll

GlobeCore Object Model
GlobeServer

Esri® ArcGIS® 10.8

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