

Layer Object

Derived from: [Style Object](#)

Description

The Layer object represents a layer in a drawing document.

Methods

Name	Description
ConvertToLocal	Method that creates a local cached copy of a global style and returns the local style.
Copy	Method that creates a new local Style object. The newly created style is returned.
Delete	Method that deletes the Style/Layer/UnfoldMethod.
GetCustomLineType	Method that returns information regarding the custom line type in use, or a failure if it is not a kCustomLineType.
GetReferenceKey	Method that generates and returns the reference key for this entity.
SaveToGlobal	Method that saves this style to the global repository. If a style with the same name is found in the repository, that style is updated.
SetCustomLineType	Method that sets a custom line type to the entity from the specified .lin file. The method automatically changes the value of the LineType property to kCustomLineType.
UpdateFromGlobal	Method that updates this style from the global repository.

Properties

Name	Description
Application	Returns the top-level parent application object. When used the context of Inventor, an Application object is returned. When used in the context of Apprentice, an ApprenticeServer object is returned.
AutomaticColor	Property that gets and sets whether to use the default color for the layer. This property can only be set to True. Setting the Color property automatically sets this property to False.
Color	Property that gets and sets the color used for the layer.

Comments	Gets and sets comments associated with the style.
InternalName	Property that returns the internal name of the style. The name is the internal English name of the standard style. This name will remain constant and is not affected by locale. This name is never displayed to the user. Note that this name is not guaranteed to be unique.
InUse	Property that indicates if this style is in use.
LineType	Property that gets and sets the line type override. Setting the property to <code>kDefaultLineType</code> restores the default line type. If the property returns <code>kCustomLineType</code> , the <code>GetCustomLineType</code> method can be used to get further details about the line type.
LineWeight	Property that gets and sets the thickness of this primitive/object. If <code>LineDefinitionSpace</code> is set to <code>kScreenSpace</code> , this value is defined in pixels. If <code>LineDefinitionSpace</code> is set to <code>kModelSpace</code> , this value is defined in model units (centimeters).
Name	Gets/Sets the name of the Style.
Parent	Property returning the parent of this object.
Plot	Property that gets and sets whether this layer is plotted. If set to <code>False</code> , the layer continues to display in the drawing but will neither get printed nor published.
ScaleByLineWeight	Property that gets and sets whether to scale the line type based on the line weight value.
StyleLocation	Property that returns the location of this style, i.e. local to the document, cached locally in the document, exists in the library. Styles that exist in the library cannot be edited.
StyleType	Gets the type of the style.
Type	Returns an <code>ObjectTypeEnum</code> indicating this object's type.
UpToDate	Property that gets the up-to-date status of the style against the global repository.
Visible	Property that gets and sets whether the layer is turned on or off.

Accessed From

[AngularGeneralDimension.Layer](#), [AutoCADBlock.Layer](#), [Balloon.Layer](#), [BaselineDimensionSet.Layer](#), [BendNote.Layer](#), [BreakOperation.Layer](#), [Centerline.Layer](#), [Centermark.Layer](#), [ChainDimensionSet.Layer](#), [ChamferNote.Layer](#), [CustomTable.Layer](#), [DetailDrawingView.BoundaryLayer](#), [DiameterGeneralDimension.Layer](#),

DrawingCurveSegment.Layer, DrawingDimension.Layer, DrawingNote.Layer,
 DrawingViewLabel.Layer, FeatureControlFrame.Layer, GeneralDimension.Layer,
 GeneralNote.Layer, HoleTable.Layer, HoleTag.Layer, HoleThreadNote.Layer,
 LayersEnumerator.Item, LeaderNote.Layer, LinearGeneralDimension.Layer,
 ObjectDefaultsStyle.AngularDimensionLayer, ObjectDefaultsStyle.BalloonLayer,
 ObjectDefaultsStyle.BaselineDimensionLayer, ObjectDefaultsStyle.BendNoteLayer,
 ObjectDefaultsStyle.BendTableLayer, ObjectDefaultsStyle.BendTagLayer,
 ObjectDefaultsStyle.BorderGeometryLayer, ObjectDefaultsStyle.BorderTextLayer,
 ObjectDefaultsStyle.CenterlineLayer, ObjectDefaultsStyle.CentermarkLayer,
 ObjectDefaultsStyle.CenterOfGravityLayer, ObjectDefaultsStyle.ChainDimensionLayer,
 ObjectDefaultsStyle.ChamferNoteLayer, ObjectDefaultsStyle.ConfigurationTableLayer,
 ObjectDefaultsStyle.DiameterDimensionLayer,
 ObjectDefaultsStyle.FeatureControlFrameLayer, ObjectDefaultsStyle.GeneralNoteLayer,
 ObjectDefaultsStyle.HoleNoteLayer, ObjectDefaultsStyle.HoleTableLayer,
 ObjectDefaultsStyle.HoleTagLayer, ObjectDefaultsStyle.LeaderTextLayer,
 ObjectDefaultsStyle.LinearDimensionLayer, ObjectDefaultsStyle.OrdinateDimensionLayer,
 ObjectDefaultsStyle.OrdinateDimensionSetLayer, ObjectDefaultsStyle.OriginIndicatorLayer,
 ObjectDefaultsStyle.PartsListLayer, ObjectDefaultsStyle.PunchNoteLayer,
 ObjectDefaultsStyle.RadialDimensionLayer, ObjectDefaultsStyle.RevisionTableLayer,
 ObjectDefaultsStyle.RevisionTagLayer, ObjectDefaultsStyle.SheetMetalPunchLayer,
 ObjectDefaultsStyle.Sketch3DGeometryLayer,
 ObjectDefaultsStyle.SketchedSymbolGeometryLayer,
 ObjectDefaultsStyle.SketchedSymbolLeaderLayer,
 ObjectDefaultsStyle.SketchedSymbolTextLayer, ObjectDefaultsStyle.SketchGeometryLayer,
 ObjectDefaultsStyle.SketchTextLayer, ObjectDefaultsStyle.SurfaceTextureLayer,
 ObjectDefaultsStyle.TableLayer, ObjectDefaultsStyle.ThreadNoteLayer,
 ObjectDefaultsStyle.TitleBlockGeometryLayer, ObjectDefaultsStyle.TitleBlockTextLayer,
 ObjectDefaultsStyle.ViewLabelLayer, ObjectDefaultsStyle.WorkAxisLayer,
 ObjectDefaultsStyle.WorkPlaneLayer, ObjectDefaultsStyle.WorkPointLayer,
 OrdinateDimension.Layer, OrdinateDimensionSet.Layer, OriginIndicator.Layer, PartsList.Layer,
 PunchNote.Layer, RadiusGeneralDimension.Layer, RevisionTable.Layer, SketchArc.Layer,
 SketchArcProxy.Layer, SketchCircle.Layer, SketchCircleProxy.Layer,
 SketchControlPointSpline.Layer, SketchControlPointSplineProxy.Layer, SketchedSymbol.Layer,
 SketchEllipse.Layer, SketchEllipseProxy.Layer, SketchEllipticalArc.Layer,
 SketchEllipticalArcProxy.Layer, SketchEntity.Layer, SketchEquationCurve.Layer,
 SketchEquationCurveProxy.Layer, SketchFixedSpline.Layer, SketchFixedSplineProxy.Layer,
 SketchLine.Layer, SketchLineProxy.Layer, SketchOffsetSpline.Layer,
 SketchOffsetSplineProxy.Layer, SketchPoint.Layer, SketchPointProxy.Layer, SketchSpline.Layer,
 SketchSplineHandle.Layer, SketchSplineHandleProxy.Layer, SketchSplineProxy.Layer,
 SurfaceTextureSymbol.Layer, TextBox.Layer, TextBoxProxy.Layer

Samples

Name	Description
Moving sketch entities to a new layer	This sample demonstrates the creation of a new layer and moving sketch entities onto this newly created layer.

Version

Introduced in version 10

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