#### layoutNode (Layout Node)

The [layout](layout.docx) node is the basic building block of diagrams.  The [layout](layout.docx) node is responsible for defining how shapes are arranged in a diagram and how the data maps to a particular shape in a diagram.

[Example: Consider the following example of a basic [layout](layout.docx) node defined in a DrawingML diagram:

<layoutNode [name](name.docx)="node">

<[varLst](varLst.docx)>

<[bulletEnabled](bulletEnabled.docx) [val](val.docx)="1"/>

</[varLst](varLst.docx)>

<[presOf](presOf.docx) axis="desOrSelf" ptType="node"/>

<[alg](alg.docx) type="[tx](tx.docx)"/>

<[shape](shape.docx) type="[rect](rect.docx)" xmlns:r="http://schemas.openxmlformats.org/officeDocument/2006/relationships" r:blip="">

<[adjLst](adjLst.docx)/>

</[shape](shape.docx)>

<[constrLst](constrLst.docx)/>

<[ruleLst](ruleLst.docx)>

<[rule](rule.docx) type="primFontSz" forName="" [val](val.docx)="2" fact="NaN" max="NaN"/>

</[ruleLst](ruleLst.docx)>

</layoutNode>

In this example we define a [layout](layout.docx) node which holds text and is a rectangle. [end](end.docx) example]

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| Parent Elements |
| [else](else.docx) (§); [forEach](forEach.docx) (§); if (§); [layoutDef](layoutDef.docx) (§); layoutNode (§) |

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| Child Elements | Subclause |
| [alg](alg.docx) (Algorithm) | § |
| [choose](choose.docx) (Choose Element) | § |
| [constrLst](constrLst.docx) (Constraint List) | § |
| [extLst](extLst.docx) (Extension List) | § |
| [forEach](forEach.docx) (For Each) | § |
| layoutNode (Layout Node) | § |
| [presOf](presOf.docx) (Presentation Of) | § |
| [ruleLst](ruleLst.docx) (Rule List) | § |
| [shape](shape.docx) (Shape) | § |
| [varLst](varLst.docx) (Variable List) | § |

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| --- | --- |
| Attributes | Description |
| chOrder (Child Order) | Specifes the ordering of the child [layout](layout.docx) nodes for a given [layout](layout.docx) node.  The possible values for this attribute are defined by the [ST\_ChildOrderType](ST_ChildOrderType.docx) simple type (§). |
| moveWith (Move With) | Reference to another [layout](layout.docx) node that this [layout](layout.docx) node moves with.  The possible values for this attribute are defined by the XML Schema string datatype. |
| [name](name.docx) (Name) | A unique identifier for the [layout](layout.docx) node.  The possible values for this attribute are defined by the XML Schema string datatype. |
| [styleLbl](styleLbl.docx) (Style Label) | Specify which formatting option from a style or color variation should be applied to this [layout](layout.docx) node.  The possible values for this attribute are defined by the XML Schema string datatype. |

The following XML Schema fragment defines the contents of this element:

<complexType [name](name.docx)="CT\_LayoutNode">

<choice minOccurs="0" maxOccurs="unbounded">

<element name="[alg](alg.docx)" type="CT\_Algorithm" minOccurs="0" maxOccurs="1"/>

<element name="shape" type="CT\_Shape" minOccurs="0" maxOccurs="1"/>

<element name="[presOf](presOf.docx)" type="CT\_PresentationOf" minOccurs="0" maxOccurs="1"/>

<element name="[constrLst](constrLst.docx)" type="CT\_Constraints" minOccurs="0" maxOccurs="1"/>

<element name="[ruleLst](ruleLst.docx)" type="CT\_Rules" minOccurs="0" maxOccurs="1"/>

<element name="[varLst](varLst.docx)" type="CT\_LayoutVariablePropertySet" minOccurs="0" maxOccurs="1"/>

<element [name](name.docx)="[forEach](forEach.docx)" type="CT\_ForEach"/>

<element [name](name.docx)="layoutNode" type="CT\_LayoutNode"/>

<element [name](name.docx)="[choose](choose.docx)" type="CT\_Choose"/>

<element name="[extLst](extLst.docx)" type="a:CT\_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>

</choice>

<attribute name="name" type="xsd:string" use="optional" default=""/>

<attribute name="[styleLbl](styleLbl.docx)" type="xsd:string" use="optional" default=""/>

<attribute name="chOrder" type="[ST\_ChildOrderType](ST_ChildOrderType.docx)" use="optional" default="b"/>

<attribute name="moveWith" type="xsd:string" use="optional" default=""/>

</complexType>