#### textpath (Text Layout Path)

This element is used to define a vector [path](path.docx) based on the text data, font and font styles supplied.  The [path](path.docx) which results is then mapped into the region defined by the v attribute of the shape's [path](path.docx) (§).

[Example:

<v:[curve](curve.docx) from="50,100" to="400,100"

 control1="200,200" control2="300,200">

 <v:[stroke](stroke.docx) color="blue"/>

 <v:[fill](fill.docx) color="yellow" color2="green" type="gradient"/>

 <v:[path](path.docx) textpathok="true"/>

 <v:textpath on="true" style="font:normal normal normal 36pt Arial"

 fitpath="true" string="Hello, VML!"/>

</v:[curve](curve.docx)>



end example]

|  |
| --- |
| Parent Elements |
| [arc](arc.docx) (§); [background](background.docx) (§); [curve](curve.docx) (§); [group](group.docx) (§); [image](image.docx) (§); [line](line.docx) (§); object (§); [oval](oval.docx) (§); pict (§); pict (§); [polyline](polyline.docx) (§); [rect](rect.docx) (§); [roundrect](roundrect.docx) (§); shape (§); [shapetype](shapetype.docx) (§) |

|  |  |
| --- | --- |
| Attributes | Description |
| fitpath (Path Fit Toggle) | Specifies whether the text fits the [path](path.docx) of a shape. If true, sizes the text to [fill](fill.docx) the [path](path.docx) it lies out on. [Default](Default.docx) is false.[Example:<v:textpath on="true" fitpath="true"  string="[VML](VML.docx)"></v:textpath>

|  |  |
| --- | --- |
|  | fitpath="true" |
|  | fitpath="false" |

end example]The possible values for this attribute are defined by the [ST\_TrueFalse](ST_TrueFalse.docx) simple type (§). |
| fitshape (Shape Fit Toggle) | Specifies whether the text fits the bounding box of a shape. If true, the text is stretched out to the edges of the box that defines the entire shape. [Default](Default.docx) is false.[Example: When fitshape is false, the text is drawn along the first part of the path. When true, the text is stretched to fit the entire enclosed area of the shape.<v:[shape](shape.docx) style="width:100;height:100"  [path](path.docx)="m 0,500 c 250,0 750,0 1000,500 e  m 0,600 c 250,900 750,900 1000,600 e"  fillcolor="yellow" strokecolor="maroon"> <v:[path](path.docx) textpathok="t"/> <v:textpath on="t" fitshape="t" string="[VML](VML.docx)"/></v:[shape](shape.docx)>The raw [path](path.docx) [stroke](stroke.docx) is:end example]The possible values for this attribute are defined by the [ST\_TrueFalse](ST_TrueFalse.docx) simple type (§). |
| id (Unique Identifier) | Specifies a unique identifier that can be used to reference a [VML](VML.docx) object.[Default](Default.docx) is no value.[Example:<v:shape ... id="myShape" ... ></v:[shape](shape.docx)>end example]The possible values for this attribute are defined by the XML Schema string datatype. |
| on (Text Path Toggle) | Specifies whether the text is displayed on the textpath. [Default](Default.docx) is false. The textpathok attribute of the [path](path.docx) element (§) overrides this.[Example:<v:[line](line.docx) from="50,100" to="100,100"> <v:[path](path.docx) textpathok="false"/> <v:textpath on="true" string="[VML](VML.docx)"/></v:[line](line.docx)> end example]The possible values for this attribute are defined by the [ST\_TrueFalse](ST_TrueFalse.docx) simple type (§). |
| string (Text Path Text) | Specifies the text of the text path. [Default](Default.docx) is no value.The possible values for this attribute are defined by the XML Schema string datatype. |
| style (Shape Styling Properties) | Specifies the CSS2 styling properties of the shape. This uses the syntax described in the "Visual formatting model" of the Cascading Style Sheets, Level 2 specification, a Recommendation of the World Wide Web Consortium available here: http://www.w3.org/TR/REC-CSS2. Full descriptions of each property are not repeated here, but the [VML](VML.docx) treatment of each property is defined. Allowed properties include:

|  |  |
| --- | --- |
| Property | Description |
| flip | Specifies that the orientation of a shape is flipped. [Default](Default.docx) is no value. Allowed values are:* x - Flip along the y-axis, reversing the x-coordinates.
* y - Flip along the x-axis, reversing the y-coordinates.
* xy - Flip along both the y- and x-axis.
* yx - Flip along both the x- and y-axis.
 |
| height | Specifies the height of the containing block of the shape.  [Default](Default.docx) is 0. It is specified in CSS units or, for elements in a [group](group.docx), in the coordinate system of the parent element. Allowed values are: * auto - [Default](Default.docx) position of an element in the flow of the page.
* <units>- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.
* <percentage>- Value expressed as a percentage of the parent object's height.
 |
| [left](left.docx) | Specifies the position of the left of the containing block of the shape relative to the element left of it in the flow of the page. [Default](Default.docx) is 0. It is specified in CSS units or, for elements in a [group](group.docx), in the coordinate system of the parent element. This property shall not be used for shapes anchored inline. Allowed values are: * auto - [Default](Default.docx) position of an element in the flow of the page.
* <units> - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.
* <percentage>- Value expressed as a percentage of the parent object's width.
 |
| margin-bottom | Specifies the position of the bottom of the containing block of the shape relative to the shape anchor. [Default](Default.docx) is 0. It is specified in CSS units or, for elements in a [group](group.docx), in the coordinate system of the parent element. Allowed values are: * auto - [Default](Default.docx) position of an element in the flow of the page.
* <units>- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.
* <percentage>- Value expressed as a percentage of the parent object's height.
 |
| margin-left | Specifies the position of the left of the containing block of the shape relative to the shape anchor. [Default](Default.docx) is 0. It is specified in CSS units or, for elements in a [group](group.docx), in the coordinate system of the parent element. Allowed values are: * auto - [Default](Default.docx) position of an element in the flow of the page.
* <units>- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.
* <percentage>- Value expressed as a percentage of the parent object's width.
 |
| margin-right | Specifies the position of the right of the containing block of the shape relative to the shape anchor. [Default](Default.docx) is 0. It is specified in CSS units or, for elements in a [group](group.docx), in the coordinate system of the parent element. Allowed values are: * auto - [Default](Default.docx) position of an element in the flow of the page.
* <units> - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.
* <percentage>- Value expressed as a percentage of the parent object's width.
 |
| margin-top | Specifies the position of the top of the containing block of the shape relative to the shape anchor. [Default](Default.docx) is 0. It is specified in CSS units or, for elements in a [group](group.docx), in the coordinate system of the parent element. Allowed values are:* auto - [Default](Default.docx) position of an element in the flow of the page.
* <units>- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.
* <percentage>- Value expressed as a percentage of the parent object's height.
 |
| mso-position-horizontal | Specifies the horizontal positioning data for objects in WordprocessingML documents. [Default](Default.docx) is absolute. Allowed values are:* absolute
* [left](left.docx)
* center
* [right](right.docx)
* inside
* outside
 |
| mso-position-horizontal-relative | Specifies relative horizontal position data for objects in WordprocessingML documents. This modifies the mso-position-horizontal property. [Default](Default.docx) is text. Allowed values are:* margin
* page
* text
* char
 |
| mso-position-vertical | Specifies the vertical positioning data for objects in WordprocessingML documents. [Default](Default.docx) is absolute. Allowed values are:* absolute
* [top](top.docx)
* center
* [bottom](bottom.docx)
* inside
* outside
 |
| mso-position-vertical-relative | Specifies relative vertical position data for objects in WordprocessingML documents. This modifies the mso-position-vertical property. [Default](Default.docx) is text. Allowed values are:* margin
* page
* text
* [line](line.docx)
 |
| mso-wrap-distance-bottom | Specifies the distance from the bottom of the shape to the text that wraps around it. [Default](Default.docx) is 0 pt. Note that this property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin. |
| mso-wrap-distance-left | Specifies the distance from the left side of the shape to the text that wraps around it. [Default](Default.docx) is 0 pt. Note that this property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin. |
| mso-wrap-distance-right | Specifies the distance from the right side of the shape to the text that wraps around it. [Default](Default.docx) is 0 pt. Note that this property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin. |
| mso-wrap-distance-top | Specifies the distance from the top of the shape to the text that wraps around it. [Default](Default.docx) is 0 pt. Note that this property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin. |
| mso-wrap-edited | Specifies whether the [wrap](wrap.docx) coordinates were customized by the user. If the [wrap](wrap.docx) coordinates are generated by an editor, this property is true; otherwise they were customized by a user. [Default](Default.docx) is false. |
| mso-wrap-style | Specifies the wrapping mode for text in shapes in WordprocessingML documents. [Default](Default.docx) is square. Allowed values are:* square - Wraps text inside the shape in a square.
* none - Text does not wrap.
 |
| position | Specifies the type of positioning used to place an element. [Default](Default.docx) is static. When the element is contained inside a [group](group.docx), this property must be absolute. Allowed values are:* static - The element is positioned according to the normal flow of the page. The top and left properties are ignored. If the object is anchored inline, this value is used.
* absolute - The element is positioned relative to the parent, using the top and left properties.
* relative - The element is positioned according to the normal flow of the page, but the top and left properties are used. The overlap of overlapping elements is governed by the z-index property.
 |
| rotation | Specifies the angle that a shape is rotated, in degrees. [Default](Default.docx) is 0. Positive angles are clockwise. |
| [top](top.docx) | Specifies the position of the top of the containing block of the shape relative to the element above it in the flow of the page. [Default](Default.docx) is 0. It is specified in CSS units or, for elements in a [group](group.docx), in the coordinate system of the parent element. This property shall not be used for shapes anchored inline. Allowed values are:* auto - [Default](Default.docx) position of an element in the flow of the page.
* <units>- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.
* <percentage>- Value expressed as a percentage of the parent object's height.
 |
| visibility | Specifies whether a shape is displayed. Only inherit and hidden are used; any other values are mapped to inherit. [Default](Default.docx) is inherit. Allowed values are:* hidden - The shape is not visible, but is still part of the flow of the objects in the browser. Mouse events are not processed.
* inherit - The visibility state is inherited from the parent of the shape.
 |
| width | Specifies the width of the containing block of the shape.  [Default](Default.docx) is 0. It is specified in CSS units or, for elements in a [group](group.docx), in the coordinate system of the parent element. Allowed values are: * auto - [Default](Default.docx) position of an element in the flow of the page.
* <units>- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed.
* <percentage>- Value expressed as a percentage of the parent object's width.
 |
| z-index | Specifies the display order of overlapping shapes. [Default](Default.docx) is 0. This property shall not be used for shapes anchored inline. Allowed values are:* auto - Uses the order that the shapes appear in the page, bottom to top.
* <order>- A number that represents the stacking precedence. Shapes with higher numbers are placed on top of those with lower numbers. Negative numbers are allowed.
 |

The following properties are only used by the [textbox](textbox.docx) element (§):

|  |  |
| --- | --- |
| Property | Description |
| direction | Specifies the direction of the text in the textbox. [Default](Default.docx) is ltr. This property is superceded by the mso-direction-alt property if that is specified. Allowed values are:* ltr - Test is displayed left-to-right.
* rtl - Test is displayed right-to-left.
 |
| layout-flow | Determines the flow of the text layout in a textbox. [Default](Default.docx) is horizontal. Allowed values are:* horizontal - Text is displayed horizontally.
* vertical - Text is displayed vertically.
* vertical-ideographic - Ideographic text is displayed vertically.
* horizontal-ideographic - Ideographic text is displayed horizontally.
 |
| mso-direction-alt | Specifies an alternate direction for text in textboxes. Overrides the direction property. The only allowed value is context. |
| mso-fit-shape-to-text | Specifies whether the shape stretches to fit the text in the textbox. [Default](Default.docx) is false. |
| mso-fit-text-to-shape | Specifies whether the text stretches to fit the textbox. [Default](Default.docx) is false. |
| mso-layout-flow-alt | Specifies the alternate layout flow for text in textboxes. This property is used instead of layout-flow when the layout flow is from bottom to top for non-ideographic languages.  Its only value is bottom-to-top. |
| mso-next-textbox | Specifies the ID of the next [textbox](textbox.docx) in a series. Used to keep track of a set of linked textboxes. [Default](Default.docx) is no value. |
| mso-rotate | Specifies a specific rotation value for text in a textbox. [Default](Default.docx) is 0. Allowed values are:* 0
* 90
* 180
* -90
 |
| mso-text-scale | Specifies the scaling factor for fitting text to shapes. [Default](Default.docx) is 0. This property is only used if mso-fit-text-to-shape is true. |
| v-text-anchor | Specifies the vertical anchoring of text in a textbox. [Default](Default.docx) is top. The alignment of a text anchor only becomes evident if mso-fit-text-to-shape is false. This property is different from the vertical-align CSS property, which is used for ideographic languages. Allowed values are:* [top](top.docx)
* middle
* [bottom](bottom.docx)
* top-center
* middle-center
* bottom-center
* top-baseline
* bottom-baseline
* top-center-baseline
* bottom-center-baseline
 |

The following properties are only used by the textpath element (§):

|  |  |
| --- | --- |
| Property | Description |
| font | Specifies a compound value of font settings. [Default](Default.docx) is no value. The values are the same as those of the CSS font property. The order of definitions in the string is: font-style, font-variant, font-weight, font-size, line-height, font-family. |
| font-family | Specifies the family of the font. [Default](Default.docx) is no value. The values are the same as those of the CSS font-family property. |
| font-size | Specifies the size of the font. [Default](Default.docx) is no value. The font size is defined in points. The values are the same as those of the CSS font-size property. |
| font-style | Specifies the amount of slant for a font. [Default](Default.docx) is normal. The values are the same as those of the CSS font-style property. Allowed values are:* normal
* italic
* oblique - Treated the same as italic.
 |
| font-variant | Specifies the variant style of a font. [Default](Default.docx) is normal. The values are the same as those of the CSS font-variant property. Allowed values are:* normal
* small-caps
 |
| font-weight | Specifies the thickness of the letters of the font. [Default](Default.docx) is normal. The values are the same as those of the CSS font-weight property. Allowed values are:

|  |  |
| --- | --- |
| Value | Description |
| normallighter100200300400 | Treated as non-bold. |
| boldbolder500600700800900 | Treated as bold. |

 |
| mso-text-shadow | Specifies whether a [shadow](shadow.docx) is applied to the text on a text path. [Default](Default.docx) is false. |
| text-decoration | Specifies the style of text decoration. [Default](Default.docx) is none. The values are the same as those of the CSS text-decoration property. Allowed values are:* none
* underline
* overline
* line-through
* blink
 |
| v-rotate-letters | Specifies whether the letters of the text are rotated counterclockwise by 90 degrees. [Default](Default.docx) is false. |
| v-same-letter-heights | Specifies whether all letters will be the same height regardless of initial case. If true, the lowercase letters are stretched to the height of the uppercase letters. [Default](Default.docx) is false. |
| v-text-align | Specifies the alignment of text. [Default](Default.docx) is left. Allowed values are:* [left](left.docx)
* [right](right.docx)
* center
* justify
* letter-justify - Distributes the extra space between the letters.
* stretch-justify - Stretches the letters to [fill](fill.docx) in the space.
 |
| v-text-kern | Specifies whether kerning is turned on. [Default](Default.docx) is false. |
| v-text-reverse | Specifies whether the layout order of rows is reversed. [Default](Default.docx) is false. This is used for vertical text layout. |
| v-text-spacing-mode | Specifies the mode for letter spacing. [Default](Default.docx) is tightening. This property determines whether space will be removed between each letter (tightening) or added between each letter (tracking). The amount of letter spacing change is defined by the v-text-spacing property. Allowed values are:* tightening
* tracking
 |
| v-text-spacing | Specifies the amount of spacing for text in 100ths of single [line](line.docx) spacing. [Default](Default.docx) is 100. |

The [line](line.docx) (§), [polyline](polyline.docx) (§) and [curve](curve.docx) (§) elements ignore the following properties:* [top](top.docx)
* [left](left.docx)
* width
* height

The following properties are not inherited by an element that references a [shapetype](shapetype.docx) element (§) via the id attribute:* flip
* height
* [left](left.docx)
* margin-left
* margin-top
* position
* rotation
* [top](top.docx)
* visibility
* width
* z-index

The possible values for this attribute are defined by the XML Schema string datatype. |
| trim (Text Path Trim Toggle) | Specifies whether extra space is removed above and below the text. If true, space reserved for ascenders and descenders is removed. [Default](Default.docx) is false.[Example: The shape [path](path.docx) is duplicated as a second shape and overlaid on the textpath for illustrative purposes:<v:[shape](shape.docx) style=" width:100;height:100"  [path](path.docx)="m 0,500 c 250,0 750,0 1000,500 e  m 0,600 c 250,900 750,900 1000,600 e"  fillcolor="yellow" strokecolor="maroon"> <v:[path](path.docx) textpathok="true"/> <v:textpath on="true" fitshape="true"  string="vml" trim="true"/></v:[shape](shape.docx)>  trim="true" trim="false"end example]The possible values for this attribute are defined by the [ST\_TrueFalse](ST_TrueFalse.docx) simple type (§). |
| xscale (Text X-Scaling) | Specifies whether a straight text [path](path.docx) will be used instead of the shape path. If true, the text runs along a path from left to right along the x value of the lower boundary of the shape. [Default](Default.docx) is false.The possible values for this attribute are defined by the [ST\_TrueFalse](ST_TrueFalse.docx) simple type (§). |

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

<complexType name="CT\_TextPath">

 <attributeGroup ref="AG\_Id"/>

 <attributeGroup ref="AG\_Style"/>

 <attribute name="on" type="[ST\_TrueFalse](ST_TrueFalse.docx)" use="optional"/>

 <attribute name="fitshape" type="[ST\_TrueFalse](ST_TrueFalse.docx)" use="optional"/>

 <attribute name="fitpath" type="[ST\_TrueFalse](ST_TrueFalse.docx)" use="optional"/>

 <attribute name="trim" type="[ST\_TrueFalse](ST_TrueFalse.docx)" use="optional"/>

 <attribute name="xscale" type="[ST\_TrueFalse](ST_TrueFalse.docx)" use="optional"/>

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

</complexType>