#### bottom (Text Box Bottom Stroke)

This element specifies the [stroke](stroke.docx) properties for the bottom border of a text box. It entirely supercedes its parent [stroke](stroke.docx) element if its on attribute is true. Thus the default value of an unspecified attribute overrides a value specified in the parent. If the on attribute is false or not specified, the border is not shown.

[Example: The text box borders are set independently. Note that the bottom border does not inherit the weight from the parent [stroke](stroke.docx) element.

<v:[stroke](stroke.docx) weight="2.25pt">

 <o:left v:ext="view" dashstyle="1 1" color="blue" weight="5pt" on="t"/>

 <o:top v:ext="view" color="black" weight="2.25pt" on="t"/>

 <o:right v:ext="view" dashstyle="1 1" color="blue" weight="5pt" on="t"/>

 <o:bottom v:ext="view" color="black" on="t"/>

 <o:column v:ext="view" color="#f60" on="t"/>

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



end example]

|  |
| --- |
| Parent Elements |
| [background](background.docx) (§); hdrShapeDefaults (§); object (§); pict (§); pict (§); shapeDefaults (§); [stroke](stroke.docx) (§) |

|  |  |
| --- | --- |
| Attributes | Description |
| althref (Alternate Image Reference) | Specifies an alternate reference for an [image](image.docx) in Macintosh PICT format.[Example:<v:[stroke](stroke.docx) ... althref="myimage.pcz" ... ></v:[stroke](stroke.docx)>end example]The possible values for this attribute are defined by the XML Schema string datatype. |
| color (Stroke Color) | Specifies the [stroke](stroke.docx) color. Overrides the strokecolor attribute of a shape. [Default](Default.docx) is black. See the fillcolor attribute for a list of supported named colors.[Example: The shape [stroke](stroke.docx) is blue:<v:shape ... strokecolor="red" ... > <v:[stroke](stroke.docx) color="blue"/></v:[shape](shape.docx)>end example]The possible values for this attribute are defined by the [ST\_ColorType](ST_ColorType.docx) simple type (§). |
| color2 (Stroke Alternate Pattern Color) | Specifies a second color for strokes, used when filltype is pattern. [Default](Default.docx) is no value.When a pattern [fill](fill.docx) is used for the [stroke](stroke.docx), the [stroke](stroke.docx) color is used in colored parts of the source image. The color2 defines an alternate color to use in place of black in the source image.[Example: This unusual example is intended to demonstrate how the [image](image.docx) and colors interact to create a patterned stroke. The yellow [background](background.docx) shows transparency. The non-square shape and square [image](image.docx) create an effective offset. The heavy [stroke](stroke.docx) weight shows more of the image. The green shape [fill](fill.docx) shows how the [stroke](stroke.docx) is overlaid on the shape.<v:[background](background.docx) fillcolor="yellow"/><v:[shape](shape.docx) style="width:60;height:50" strokecolor="red" fillcolor="lime" [path](path.docx)="m 0,0 l 0,1000 1000,1000 1000,0 x e"> <v:[stroke](stroke.docx) filltype="pattern" weight="10pt" src="myimage.gif" color2="blue"/></v:[shape](shape.docx)>, where myimage.gif is: end example]The possible values for this attribute are defined by the [ST\_ColorType](ST_ColorType.docx) simple type (§). |
| dashstyle (Stroke Dash Pattern) | Specifies the dot and dash pattern for a stroke. [Default](Default.docx) is solid. Pre-defined values are:* solid
* shortdash
* shortdot
* shortdashdot
* shortdashdotdot
* dot
* dash
* longdash
* dashdot
* longdashdot
* longdashdotdot

A custom-defined dash pattern may also be specified using a series of numbers. These define the length of the dash (the drawn part of the stroke) and the length of the space between the dashes. The lengths are relative to the [line](line.docx) width: a length of 1 is equal to the [line](line.docx) width. The endcap style is applied to each dash but the arrow style is not. The string defines the length of the dash then the length of the space. This may be repeated to form [complex](complex.docx) dash styles. The string should always contain a pair of numbers; if it contains an odd number of numbers the last is disregarded. 0 implies a dot that is fourfold symmetrical (with round end caps, this is a circle).[Example:<v:[stroke](stroke.docx) dashstyle="0 2" weight="3pt" endcap="round"></v:[stroke](stroke.docx)><v:[stroke](stroke.docx) dashstyle="longdashdotdot" weight="2pt"></v:[stroke](stroke.docx)>end example]The possible values for this attribute are defined by the XML Schema string datatype. |
| endarrow (Line End Arrowhead) | Specifies an arrowhead for the end of a line. [Default](Default.docx) is none. Note that the [path](path.docx) must not be closed with the x command for the arrowhead to show. Allowed values are:* none
* block
* classic
* diamond
* [oval](oval.docx)
* open

[Example:<v:[stroke](stroke.docx) endarrow="classic"/>end example]The possible values for this attribute are defined by the [ST\_StrokeArrowType](ST_StrokeArrowType.docx) simple type (§). |
| endarrowlength (Line End Arrowhead Length) | Specifies the length of the arrowhead at the end of a line. [Default](Default.docx) is medium. Allowed values are:* short
* medium
* long

[Example:<v:[stroke](stroke.docx) ... endarrowlength="long" ... />end example]The possible values for this attribute are defined by the [ST\_StrokeArrowLength](ST_StrokeArrowLength.docx) simple type (§). |
| endarrowwidth (Line End Arrowhead Width) | Specifies the width of the arrowhead at the end of a line. [Default](Default.docx) is medium. Allowed values are:* narrow
* medium
* wide

[Example:<v:[stroke](stroke.docx) ... endarrowwidth="wide" ... />end example]The possible values for this attribute are defined by the [ST\_StrokeArrowWidth](ST_StrokeArrowWidth.docx) simple type (§). |
| endcap (Line End Cap) | Specifies the cap style for the end of a stroke. [Default](Default.docx) is flat. Allowed values are:* flat
* square
* round

[Example:<v:[stroke](stroke.docx) ... endcap="round" weight="10pt" ... /> endcap="flat" endcap="square" endcap="round"end example]The possible values for this attribute are defined by the [ST\_StrokeEndCap](ST_StrokeEndCap.docx) simple type (§). |
| ext (VML Extension Handling Behavior)Namespace: urn:schemas-microsoft-com:vml | Specifies an optional value that indicates how applications that implement [VML](VML.docx) should interpret extensions not defined as part of the original specification of core VML. [Rationale: This part of the original [VML](VML.docx) specification is included to assist applications that leverage existing [VML](VML.docx) support in implementing the Office Open XML Format. end rationale]The possible values for this attribute are defined by the [ST\_Ext](ST_Ext.docx) simple type (§). |
| filltype (Stroke Image Style) | Specifies the type of [fill](fill.docx) used for the [background](background.docx) of a stroke. [Default](Default.docx) is solid. Allowed values are:* solid - The [fill](fill.docx) pattern is solid.
* tile - The [fill](fill.docx) [image](image.docx) is tiled.
* pattern - The [fill](fill.docx) [image](image.docx) is stretched to form a pattern.
* frame - The [fill](fill.docx) [image](image.docx) becomes a border for the shape.

[Example:<v:[shape](shape.docx) style="width:50;height:50" strokecolor="red"  [path](path.docx)="m 0,0 l 0,1000 1000,1000 1000,0 x e"> <v:[stroke](stroke.docx) filltype="frame" weight="10pt" src="border.gif"/></v:[shape](shape.docx)>, where border.gif is: end example]The possible values for this attribute are defined by the [ST\_FillType](ST_FillType.docx) simple type (§). |
| forcedash (Force Dashed Outline) | Specifies whether a dashed outline is used to draw a shape when a shape has no [line](line.docx) or fill. [Default](Default.docx) is false.Used by PresentationML placeholders to draw a dashed outline when there is no [line](line.docx) and no [fill](fill.docx) for a shape.[Example:<v:shape ... o:forcedash="true" ... ></v:[shape](shape.docx)>end example]The possible values for this attribute are defined by the [ST\_TrueFalse](ST_TrueFalse.docx) simple type (§). |
| href (Original Image Reference) | Specifies the URL to the original [image](image.docx) file. Used only if the picture has been linked and embedded. [Default](Default.docx) is no value.[Example:<v:[fill](fill.docx) ... o:href="myimage.gif" ... ></v:[fill](fill.docx)>end example]The possible values for this attribute are defined by the XML Schema string datatype. |
| imagealignshape (Stoke Image Alignment) | Specifies the alignment of the [stroke](stroke.docx) image. If true, the [image](image.docx) is aligned with the shape. Otherwise, it is aligned with the containing scope. [Default](Default.docx) is true.[Example: The top position offset shifts the [image](image.docx) alignment relative to the containing window:<v:[shape](shape.docx) fillcolor="silver" style="top:20;width:50;height:50" [path](path.docx)="m 0,0 l 0,1000 1000,1000 1000,0 x e"> <v:[stroke](stroke.docx) imagealignshape="false" weight="20pt" filltype="tile" src="myimage.gif"/></v:[shape](shape.docx)> imagealignshape="false" imagealignshape="false"end example]The possible values for this attribute are defined by the [ST\_TrueFalse](ST_TrueFalse.docx) simple type (§). |
| imageaspect (Stroke Image Aspect Ratio) | Specifies how the [stroke](stroke.docx) [image](image.docx) aspect ratio is preserved. [Default](Default.docx) is ignore. Allowed values are:

|  |  |
| --- | --- |
| Value | Description |
| ignore | Ignore aspect issues. |
| atleast | Image is at least as big as imagesize. |
| atmost | Image is no bigger than imagesize. |

[Example:<v:[stroke](stroke.docx) filltype="frame" weight="10pt"  src="border.gif" imagealignshape="true"  imageaspect="atleast"></v:[stroke](stroke.docx)> imagealignshape="ignore" imagealignshape="atleast" imagealignshape="atmost"end example]The possible values for this attribute are defined by the [ST\_ImageAspect](ST_ImageAspect.docx) simple type (§). |
| imagesize (Stroke Image Size) | Specifies the size of the [image](image.docx) for the stroke. [Default](Default.docx) is the size of the image.[Example:<v:[stroke](stroke.docx) ... imagesize="10pt,10pt" ... />end example]The possible values for this attribute are defined by the XML Schema string datatype. |
| insetpen (Inset Border From Path) | Specifies that the border shall be displayed inside of the [path](path.docx) defining the shape, rather than along the [path](path.docx) (the default border placement), or outside of the [path](path.docx) as might be done with an image.[Example:<v:shape ... insetpen="true" ... ></v:[shape](shape.docx)>end example]The possible values for this attribute are defined by the [ST\_TrueFalse](ST_TrueFalse.docx) simple type (§). |
| joinstyle (Line End Join Style)) | Specifies the join style for [line](line.docx) ends. [Default](Default.docx) is round.* round
* bevel
* miter

[Example:<v:[polyline](polyline.docx) strokeweight="10pt" strokecolor="navy" points="10pt,10pt,50pt,50pt,90pt,10pt"> <v:[stroke](stroke.docx) joinstyle="bevel"/></v:[polyline](polyline.docx)>  joinstyle="round" joinstyle="bevel" joinstyle="miter"end example]The possible values for this attribute are defined by the [ST\_StrokeJoinStyle](ST_StrokeJoinStyle.docx) simple type (§). |
| linestyle (Stroke Line Style) | Specifies the [line](line.docx) style of the stroke. [Default](Default.docx) is single.* single
* thinThin
* thinThick
* thickThin
* thickBetweenThin

[Example:<v:[stroke](stroke.docx) linestyle="thickThin" weight="5pt"></v:[stroke](stroke.docx)>end example]The possible values for this attribute are defined by the [ST\_StrokeLineStyle](ST_StrokeLineStyle.docx) simple type (§). |
| miterlimit (Miter Joint Limit) | Specifies the smoothness of the miter joint, or the maximum distance between the inner point and outer point of a joint. This number is a multiple of the thickness of the line. [Default](Default.docx) is 8.[Example:<v:[stroke](stroke.docx) joinstyle="miter" weight="10pt"  miterlimit="2"></v:[stroke](stroke.docx)>end example]The possible values for this attribute are defined by the XML Schema decimal datatype. |
| on (Stroke Toggle) | Specifies whether the [stroke](stroke.docx) is displayed. [Default](Default.docx) is true. This attribute overrides the shape's [stroke](stroke.docx) attribute.[Example:<v:[rect](rect.docx) style="width:50;height:50" stroked="true"  fillcolor="lime" strokecolor="red"> <v:[stroke](stroke.docx) on="false" weight="5pt"/></v:[rect](rect.docx)> end example]The possible values for this attribute are defined by the [ST\_TrueFalse](ST_TrueFalse.docx) simple type (§). |
| opacity (Stroke Opacity) | Specifies the amount of transparency of a stroke. [Default](Default.docx) is 1.0.[Example:<v:[rect](rect.docx) style="width:50;height:50"  fillcolor="lime" strokecolor="red"> <v:[stroke](stroke.docx) weight="5pt" opacity="50%"/></v:[rect](rect.docx)>end example]The possible values for this attribute are defined by the XML Schema string datatype. |
| src (Stroke Image Location) | Specifies the source [image](image.docx) to load for a [stroke](stroke.docx) fill. [Default](Default.docx) is no value.[Example:<v:[stroke](stroke.docx) ... src="myimage.gif" ... ></v:[stroke](stroke.docx)>end example]The possible values for this attribute are defined by the XML Schema string datatype. |
| startarrow (Line Start Arrowhead) | Specifies an arrowhead for the start of a line. [Default](Default.docx) is none. Note that the [path](path.docx) must not be closed with the x command for the arrowhead to show. Allowed values are:* none
* block
* classic
* diamond
* [oval](oval.docx)
* open

[Example:<v:[stroke](stroke.docx) startarrow="classic"/>end example]The possible values for this attribute are defined by the [ST\_StrokeArrowType](ST_StrokeArrowType.docx) simple type (§). |
| startarrowlength (Line Start Arrowhead Length) | Specifies the length of the arrowhead at the start of a line. [Default](Default.docx) is medium. Allowed values are:* short
* medium
* long

[Example:<v:[stroke](stroke.docx) ... startarrowlength="long" ... />end example]The possible values for this attribute are defined by the [ST\_StrokeArrowLength](ST_StrokeArrowLength.docx) simple type (§). |
| startarrowwidth (Line Start Arrowhead Width) | Specifies the width of the arrowhead at the start of a line. [Default](Default.docx) is medium. Allowed values are:* narrow
* medium
* wide

[Example:<v:[stroke](stroke.docx) ... startarrowwidth="wide" ... />end example]The possible values for this attribute are defined by the [ST\_StrokeArrowWidth](ST_StrokeArrowWidth.docx) simple type (§). |
| title (Stroke Title) | Specifies the title of an embedded [stroke](stroke.docx) image. This is typically set to the comment property of the [image](image.docx), which is often blank.[Example:<v:[fill](fill.docx) ... o:title="alt text" ... ></v:[fill](fill.docx)>end example]The possible values for this attribute are defined by the XML Schema string datatype. |
| weight (Stroke Weight) | Specifies the thickness of a stroke. [Default](Default.docx) is 1. This attribute overrides the shape's strokeweight attribute.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="CT\_StrokeChild">

 <attributeGroup ref="v:AG\_Ext"/>

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

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

 <attribute name="color" type="[ST\_ColorType](ST_ColorType.docx)" use="optional"/>

 <attribute name="color2" type="[ST\_ColorType](ST_ColorType.docx)" use="optional"/>

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

 <attribute name="linestyle" type="v:[ST\_StrokeLineStyle](ST_StrokeLineStyle.docx)" use="optional"/>

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

 <attribute name="joinstyle" type="v:[ST\_StrokeJoinStyle](ST_StrokeJoinStyle.docx)" use="optional"/>

 <attribute name="endcap" type="v:[ST\_StrokeEndCap](ST_StrokeEndCap.docx)" use="optional"/>

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

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

 <attribute name="filltype" type="v:[ST\_FillType](ST_FillType.docx)" use="optional"/>

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

 <attribute name="imageaspect" type="v:[ST\_ImageAspect](ST_ImageAspect.docx)" use="optional"/>

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

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

 <attribute name="startarrow" type="v:[ST\_StrokeArrowType](ST_StrokeArrowType.docx)" use="optional"/>

 <attribute name="startarrowwidth" type="v:[ST\_StrokeArrowWidth](ST_StrokeArrowWidth.docx)" use="optional"/>

 <attribute name="startarrowlength" type="v:[ST\_StrokeArrowLength](ST_StrokeArrowLength.docx)" use="optional"/>

 <attribute name="endarrow" type="v:[ST\_StrokeArrowType](ST_StrokeArrowType.docx)" use="optional"/>

 <attribute name="endarrowwidth" type="v:[ST\_StrokeArrowWidth](ST_StrokeArrowWidth.docx)" use="optional"/>

 <attribute name="endarrowlength" type="v:[ST\_StrokeArrowLength](ST_StrokeArrowLength.docx)" use="optional"/>

 <attribute ref="href"/>

 <attribute ref="althref"/>

 <attribute ref="title"/>

 <attribute ref="forcedash"/>

</complexType>