#### shapedefaults (New Shape Defaults)

This element specifies the defaults that are used when creating new shapes. These defaults are stored once per document.

[Example: Consider a case in which an application chooses to store the highest shape ID it has used in the document thus far. This could be used to support the generation of new shape IDs:

<o:shapedefaults v:ext="edit" spidmax="1029"/>

end example]

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

|  |  |
| --- | --- |
| Child Elements | Subclause |
| [callout](callout.docx) (Callout) | § |
| [colormenu](colormenu.docx) (UI [Default](Default.docx) Colors) | § |
| [colormru](colormru.docx) (Most Recently Used Colors) | § |
| [extrusion](extrusion.docx) (3D Extrusion) | § |
| [fill](fill.docx) (Shape Fill Properties) | § |
| [lock](lock.docx) (Shape Protections) | § |
| [shadow](shadow.docx) (Shadow Effect) | § |
| [skew](skew.docx) (Skew Transform) | § |
| [stroke](stroke.docx) (Line Stroke Settings) | § |
| [textbox](textbox.docx) (Text Box) | § |

|  |  |
| --- | --- |
| Attributes | Description |
| allowincell (Allow in Table Cell) | Specifies whether the shape is allowed to be placed in a table cell. [Default](Default.docx) is false.The possible values for this attribute are defined by the [ST\_TrueFalse](ST_TrueFalse.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 (§). |
| [fill](fill.docx) (Shape Fill Toggle) | Specifies whether the closed [path](path.docx) will be filled. [Default](Default.docx) is true. This attribute is overridden by the [fill](fill.docx) on attribute.[Example:<v:shape ... [fill](fill.docx)="[f](f.docx)" fillcolor="red" ...></v:[shape](shape.docx)>end example]The possible values for this attribute are defined by the [ST\_TrueFalse](ST_TrueFalse.docx) simple type (§). |
| fillcolor (Default Fill Color) | Specifies the default shape [fill](fill.docx) color. [Default](Default.docx) is no value. Colors are typically specified as either a named color, such as red, or six hexadecimal digits representing the red, green and blue values of the color, such as #00FF30. Full details are specified in the simple type description.The possible values for this attribute are defined by the [ST\_ColorType](ST_ColorType.docx) simple type (§). |
| spidmax (Shape ID Optional Storage) | Specifies an optional value that allows applications a mechanism for storing information they need to persist related to shape IDs. [Default](Default.docx) is 0.The possible values for this attribute are defined by the XML Schema integer datatype. |
| [stroke](stroke.docx) (Shape Stroke Toggle) | Specifies whether the [path](path.docx) defining the shape is stroked with a solid line. The [stroke](stroke.docx) element (§) defines other strokes. The on attribute of the [stroke](stroke.docx) element overrides this attribute. [Default](Default.docx) is true.[Example:<v:[shape](shape.docx) ... fillcolor="red" [stroke](stroke.docx)="false" strokecolor="blue"...></v:[shape](shape.docx)>end example]The possible values for this attribute are defined by the [ST\_TrueFalse](ST_TrueFalse.docx) simple type (§). |
| strokecolor (Shape Stroke Color) | Specifies the primary color of the brush to use to [stroke](stroke.docx) the [path](path.docx) of the shape. [Default](Default.docx) is black. The color attribute of the [stroke](stroke.docx) element (§) overrides this. Colors are typically specified as either a named color, such as red, or six hexadecimal digits representing the red, green and blue values of the color, such as #00FF30. Full details are specified in the simple type description.[Example:<v:[shape](shape.docx) ... strokecolor="red" ...></v:[shape](shape.docx)>end example]The possible values for this attribute are defined by the [ST\_ColorType](ST_ColorType.docx) simple type (§). |
| 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](textpath.docx) 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. |

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

<complexType name="CT\_ShapeDefaults">

 <all minOccurs="0">

 <element ref="v:[fill](fill.docx)" minOccurs="0"/>

 <element ref="v:[stroke](stroke.docx)" minOccurs="0"/>

 <element ref="v:[textbox](textbox.docx)" minOccurs="0"/>

 <element ref="v:[shadow](shadow.docx)" minOccurs="0"/>

 <element ref="[skew](skew.docx)" minOccurs="0"/>

 <element ref="[extrusion](extrusion.docx)" minOccurs="0"/>

 <element ref="[callout](callout.docx)" minOccurs="0"/>

 <element ref="[lock](lock.docx)" minOccurs="0"/>

 <element name="[colormru](colormru.docx)" minOccurs="0" type="CT\_ColorMru"/>

 <element name="[colormenu](colormenu.docx)" minOccurs="0" type="CT\_ColorMenu"/>

 </all>

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

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

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

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

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

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

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

 <attribute name="allowincell" form="qualified" type="[ST\_TrueFalse](ST_TrueFalse.docx)"/>

</complexType>