

Structure Attributes

BLSE = Block-Level Structure Element

ILSE = Inline-Level Structure Element

Structure Elements	Attribute Name	Inheritable?	Version	Type(s)	Values / Description	Default	Tables [†]
Any	BackgroundColor	No	1.5	array	3-element RGB color array with all 3 color components 0 . 0 – 1 . 0 inclusive.	Transparent background	377, 378
	BorderColor	Yes	1.5	array	3-element RGB color array, or array of 4 × RGB color arrays in the order: <i>before, after, start, end</i> .	Current text fill color	377, 378
	BorderStyle	No	1.5	array, name	None, Hidden, Dotted, Dashed, Solid, Double, Groove, Ridge, Inset, Outset Array of 4 BorderStyle names or null in the order: <i>before, after, start, end</i> . null means not drawn.	None	377, 378
	BorderThickness	Yes	1.5	array, number	Numbers ≥ 0. 0 = border not drawn. In default user space units. Array of 4 numbers in the order: <i>before, after, start, end</i> . 0 or null means not drawn.	0	377, 378
	Color	Yes	1.5	array	3-element RGB color array with all 3 color components 0 . 0 – 1 . 0 inclusive.	Current text fill color	377, 378
	Padding	No	1.5	array, number	Positive values enlarges background area. Negative values trim. Array of 4 numbers in the order: <i>before, after, start, end</i> .	0	377, 378
	Placement	No	1.4	name	Block, Inline, Before, Start, End	Block for BLSEs. Inline for ILSEs.	377, 378
	WritingMode	Yes	1.4	name	LrTb, RlTb, Tbrl, Tblr, LrBt, RlBt, BtRl, BtLr	LrTb	377, 378
Any BLSE and ILSEs with Placement other than <i>Inline</i>	EndIndent	Yes	1.4	number	Applies only to Placement Block or End. In default user space units.	0	377, 379
	SpaceAfter	No	1.4	number	In default user space units.	0	377, 379
	SpaceBefore	No	1.4	number	In default user space units.	0	377, 379
	StartIndent	Yes	1.4	number	Applies only to Placement Block or Start. In default user space units.	0	377, 379
BLSEs containing text	TextAlign	Yes	1.4	name	Start, Center, End, Justify	Start	377, 379
	TextIndent	Yes	1.4	number	Negative values represent a hanging indent. In default user space units.	0	377, 379
Figure, Form, Formula, Table and Artifact	BBox	No	1.4	rectangle	Bounding Box in default user space units. Order is: <i>left, bottom, right, top</i>		373, 374, 377, 379
Figure, Form, Formula, Table, TH (Table header) and TD (Table data)	Height	No	1.4	name, number	Auto or a number in default user space units.	Auto	377, 379
	Width	No	1.4	name, number	Auto or a number in default user space units.	Auto	377, 379
TH (Table header) and TD (Table data)	BlockAlign	Yes	1.4	name	Before, Middle, After, Justify Only applies to TH or TD .	Before	377, 379
	InlineAlign	Yes	1.4	name	Start, Center, End Only applies to TH or TD .	Start	377, 379
	TBorderStyle	Yes	1.5	array, name	None, Hidden, Dotted, Dashed, Solid, Double, Groove, Ridge, Inset, Outset Array of 4 TBorderStyle names (<i>above</i>) or null in the order: <i>before, after, start, end</i> . null means not drawn.	None	377, 379
	TPadding	Yes	1.5	integer, array	Array of 4 numbers in the order: <i>before, after, start, end</i> , or single number for all. Positive values enlarges background area. Negative values trim. In default user space units. Padding supersedes TPadding .	0	377, 379

[†] Table references are to ISO 32000-2:2020 including resolved errata at <https://pdf-issues.pdfa.org>.

PDF Association Cheat Sheet – Structure Attributes

Structure Elements	Attribute Name	Inheritable?		Type(s)	Values / Description	Default	Tables †
Any ILSE ; and BLSEs containing ILSEs or containing direct or nested content items	BaselineShift	No	1.4	number	Positive values shift baseline toward the <i>before</i> edge. Negative values toward the <i>after</i> edge of reference area (upward and downward for Western writing systems).	0	377, 380
	LineHeight	Yes	1.4	name, number	Normal, Auto or a preferred height in default user space units.	Normal	377, 380
	TextDecorationColor	Yes	1.5	array	3-element RGB color array with all 3 color components 0.0 – 1.0 inclusive.		377, 380
	TextDecorationThickness	Yes	1.5	number	Thickness of the line.	Current stroke thickness	377, 380
	TextDecorationType	Yes	1.4	name	None, Underline, Overline, LineThrough Color, position, and thickness of decoration is same across all children, regardless of changes in colour, font size, etc. in the content's text characteristics.	None	377, 380
		Inheritable only for directly nested ILSEs					
	TextPosition	Yes	2.0	name	Sup, Sub, Normal	Normal	377, 380
Grouping elements	ColumnCount	No	1.6	number	The number of columns in the content of the grouping element.	1	377, 381
	ColumnGap	No	1.6	array, number	If a number: gap between all columns / width of all columns. If array: 1 st element is gap between columns 1 & 2 / width of column 1; 2 nd element is gap between columns 2 & 3 / width of column 2; etc.		377, 381
	ColumnWidths	No	1.6	array, number	If fewer than ColumnCount – 1 numbers, last element defines all remaining columns.		377, 381
Vertical text	GlyphOrientationVertical	Yes	1.5	name, integer	Auto or clockwise rotation in degrees of the top of the glyphs relative to the top of the reference area. Multiple of 90° between -180° and +360°.	Auto	377, 380
Ruby text (RB , RT , RP)	RubyAlign	Yes	1.5	name	Start, Center, End, Justify, Distribute	Distribute	369, 377, 380
	RubyPosition	Yes	1.5	name	Before, After, Warichu, Inline	Before	369, 377, 380
Lists	ContinuedFrom	No	2.0	ID (byte string)	ID (see Table 355 [†]) of the list for which this list is a continuation.		370, 382
	ContinuedList	No	2.0	boolean	Whether the list is a continuation of a previous list or not.	false	370, 382
	ListNumbering	Yes	1.4	name	None, Unordered (PDF 2.0), Description (PDF 2.0), Disc, Circle, Square, Ordered, Decimal, UpperRoman, LowerRoman, UpperAlpha, LowerAlpha Alphabet used for UpperAlpha and LowerAlpha depends on Lang.	None	370, 382
PrintField	Checked checked (deprecated in PDF 2.0)	No	1.7	name	off, on, neutral	off	383
	Desc	No	1.7	text string	Alternate name of field.		383
	Role	No	1.7	name	rb (radio button), cd (checkbox), pb (push button), tv (text value), lb (list box)		383
Table	ColSpan	No	1.4	integer	Number of TH or TD cells spanning the column. Only applies to TH or TD .	1	371, 384
	Headers	No	1.5	array	Array of byte strings. Only applies to TH or TD .		371, 384
	RowSpan	No	1.4	integer	Number of TH or TD cells spanning the row. Only applies to TH or TD .	1	371, 384
	Scope	No	1.5	name	Row, Column, Both. Only applies to TH .	Depends on WritingMode	371, 384
	Short	No	2.0	text string	Short form of TH 's content. Only applies to TH .		371, 384
	Summary	No	1.7	text string	Summary of the table's purpose and structure.		384
Artifact	Subtype	No	2.0	name	Header, Footer, Watermark, PageNum, Bates, LineNum, Redaction. Only when Type is Pagination or Inline .	None	385
	Type	No	2.0	name	Pagination, Layout, Page, Inline		385

† All Table references are to ISO 32000-2:2020 including resolved errata at <https://pdf-issues.pdfa.org>.