### tcBorders (Table Cell Borders)

This element specifies the set of borders for the edges of the current [table](table.docx) cell, using the eight border types defined by its child elements.

If the cell [spacing](spacing.docx) for any row is non-zero as specified using the [tblCellSpacing](tblCellSpacing.docx) element (§; §; §), then there is never a border conflict (as the non-zero cell [spacing](spacing.docx) is applied above and beyond each individual cell border's width) and all [table](table.docx), table-level exception, and [table](table.docx) cell borders shall be displayed.

If the cell [spacing](spacing.docx) is zero, then there may be a conflict [between](between.docx) two adjacent cell borders [Example: Between the left border of all cells in the second column and the right border of all cells in the first column of the table. end example], which shall be resolved as follows:

1. If either conflicting [table](table.docx) cell border is nil or none (no border), then the opposing border shall be displayed.
2. If a cell border conflicts with a [table](table.docx) border, the cell border always wins.
3. Each border shall then be assigned a weight using the following formula, and the border value using this calculation shall be displayed over the alternative border:

The border number shall be determined by this list:

|  |  |
| --- | --- |
| single | 1 |
| thick | 2 |
| double | 3 |
| dotted | 4 |
| dashed | 5 |
| dotDash | 6 |
| dotDotDash | 7 |
| triple | 8 |
| thinThickSmallGap | 9 |
| thickThinSmallGap | 10 |
| thinThickThinSmallGap | 11 |
| thinThickMediumGap | 12 |
| thickThinMediumGap | 13 |
| thinThickThinMediumGap | 14 |
| thinThickLargeGap | 15 |
| thickThinLargeGap | 16 |
| thinThickThinLargeGap | 17 |
| wave | 18 |
| doubleWave | 19 |
| dashSmallGap | 20 |
| dashDotStroked | 21 |
| threeDEmboss | 22 |
| threeDEngrave | 23 |
| outset | 24 |
| inset | 25 |

1. If the borders have an equal weight, than the higher of the two on this precedence list shall win:

* single
* thick
* double
* dotted
* dashed
* dotDash
* dotDotDash
* triple
* thinThickSmallGap
* thickThinSmallGap
* thinThickThinSmallGap
* thinThickMediumGap
* thickThinMediumGap
* thinThickThinMediumGap
* thinThickLargeGap
* thickThinLargeGap
* thinThickThinLargeGap
* wave
* doubleWave
* dashSmallGap
* dashDotStroked
* threeDEmboss
* threeDEngrave
* outset
* inset

1. If the borders have an identical style, than each border [color](color.docx) shall be assigned a brightness value as follows:  
   The [color](color.docx) with the smaller brightness value shall win.
2. If the borders have an identical brightness value above, than each border [color](color.docx) shall be assigned a new brightness value as follows:  
   The [color](color.docx) with the smaller brightness value shall win.
3. If the borders have an identical brightness value above, than each border [color](color.docx) shall be assigned a brightness value as follows:  
   The [color](color.docx) with the smaller brightness value shall win.
4. If the borders have an identical brightness value above, then they are functionally identical, and the first border in reading order should be displayed.

[Example: Consider the following two cell [table](table.docx) (with exaggerated [table](table.docx) cell [spacing](spacing.docx) for clarity):

|  |  |
| --- | --- |
|  |  |

If we collapse the cell [spacing](spacing.docx), there will be conflicting borders at all edges. For each cell/[table](table.docx) border conflict, rule #2 says that the cell border shall win. For the conflict in the center [between](between.docx) two cell borders, rule #3 gives us a larger border weight for the right cell's border, resulting in the following table:

|  |  |
| --- | --- |
|  |  |

end example]

If this element is omitted, then this [table](table.docx) shall have the borders specified by the associated [table](table.docx) style. If no borders are specified in the style hierarchy, then this [table](table.docx) shall not have any [table](table.docx) borders.

[Example: Consider a [table](table.docx) whose first cell specifies cell-level borders consisting of a think double red line, as follows:

|  |  |
| --- | --- |
|  |  |
|  |  |

These cell borders are specified using the following WordprocessingML:

<w:[tcPr](tcPr.docx)>  
 <w:tcBorders>  
 <w:top w:val="double" w:[sz](sz.docx)="24" w:space="0" w:[color](color.docx)="FF0000"/>  
 <w:left w:val="double" w:[sz](sz.docx)="24" w:space="0" w:[color](color.docx)="FF0000"/>  
 <w:bottom w:val="double" w:[sz](sz.docx)="24" w:space="0" w:[color](color.docx)="FF0000"/>  
 <w:right w:val="double" w:[sz](sz.docx)="24" w:space="0" w:[color](color.docx)="FF0000"/>  
 </w:tcBorders>  
</w:[tcPr](tcPr.docx)>

The tcBorders element specifies the set of borders applied to the first cell as a 3 point double border. end example]

|  |
| --- |
| Parent Elements |
| [tcPr](tcPr.docx) (§); [tcPr](tcPr.docx) (§); [tcPr](tcPr.docx) (§); [tcPr](tcPr.docx) (§) |

|  |  |
| --- | --- |
| Child Elements | Subclause |
| bottom (Table Cell Bottom Border) | § |
| [insideH](insideH.docx) (Table Cell Inside Horizontal Edges Border) | § |
| [insideV](insideV.docx) (Table Cell Inside Vertical Edges Border) | § |
| left (Table Cell Left Border) | § |
| right (Table Cell Right Border) | § |
| [tl2br](tl2br.docx) (Table Cell Top Left to Bottom Right Diagonal Border) | § |
| top (Table Cell Top Border) | § |
| [tr2bl](tr2bl.docx) (Table Cell Top Right to Bottom Left Diagonal Border) | § |

The following [XML](XML.docx) Schema fragment defines the contents of this element:

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

<sequence>

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

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

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

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

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

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

<element [name](name.docx)="[tl2br](tl2br.docx)" [type](type.docx)="CT\_Border" minOccurs="0"/>

<element [name](name.docx)="[tr2bl](tr2bl.docx)" [type](type.docx)="CT\_Border" minOccurs="0"/>

</sequence>

</complexType>