#### diff (Differential)

The element specifies the differential [property](property.docx) on [box](box.docx). When 'on,' the [box](box.docx) acts as a differential (e.g., in an integrand), and receives the appropriate horizontal spacing for the mathematical differential. When this [property](property.docx) is omitted, the [box](box.docx) is not treated as a differential. [Example: The following example demonstrates a [box](box.docx) set as differential in use, both in its proper form and in XML:

<m:nary>  
 <m:naryPr>  
 <m:chr m:val="&#8747;"/>  
 </m:naryPr>

<m:sub>  
 <m:r>  
 <m:rPr>  
 <m:scr m:val="roman"/>  
 <m:sty m:val="p"/>  
 </m:rPr>  
 <m:t>0</m:t>  
 </m:r>  
 </m:sub>

<m:sup>  
 <m:r>  
 <m:rPr>  
 <m:scr m:val="roman"/>  
 <m:sty m:val="p"/>  
 </m:rPr>  
 <m:t>1</m:t>  
 </m:r>  
 </m:sup>

<m:e>  
 <m:r>  
 <m:t>x</m:t>  
 </m:r>

<m:box>  
 <m:boxPr>  
 <m:diff m:val="on"/>  
 </m:boxPr>  
 <m:e>  
 <m:r>  
 <m:t>dx</m:t>  
 </m:r>  
 </m:e>  
 </m:box>  
 </m:e>  
</m:nary>

end example]

|  |
| --- |
| Parent Elements |
| [boxPr](boxPr.docx) (§) |

|  |  |
| --- | --- |
| Attributes | Description |
| val (value) | Specifies a binary value for the [property](property.docx) defined by the parent XML element.  A value of on specifies that the [property](property.docx) shall be explicitly applied. This is the default value for this attribute, and is implied when the parent element is present.  A value of off specifies that the [property](property.docx) shall be explicitly turned off. This is implied when the parent element is not present.  The possible values for this attribute are defined by the [ST\_OnOff](ST_OnOff.docx) simple [type](type.docx) (§). |

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

<complexType name="CT\_OnOff">

<attribute name="val" [type](type.docx)="[ST\_OnOff](ST_OnOff.docx)"/>

</complexType>