INTERNATIONAL STANDARD ISO/IEC 29500-1:2008
TECHNICAL CORRIGENDUM 1

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Information technology — Document description and processing languages — Office Open XML File Formats —

Part 1: Fundamentals and Markup Language Reference

TECHNICAL CORRIGENDUM 1

Technologies de l'information — Description des documents et langages de traitement — Formats de fichier "Office Open XML"

Partie 1: Principes essentiels et référence de langage de balisage

RECTIFICATIF TECHNIQUE 1

Technical Corrigendum 1 to ISO/IEC 29500-1:2008 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 34, *Document description and processing languages*.

It contains corrections that resolve various Defect Reports submitted against ISO/IEC 29500-1:2008.

A correction can involve changes to one or more clauses or subclauses; it can even apply to multiple parts of ISO/IEC 29500. For changes to ISO/IEC 29500-1:2008, each such change has its own entry below.

Changes are presented in ascending clause, subclause, and page number order.

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Notational conventions

The title of each change is the complete reference to the clause or subclause being corrected. In all cases, the title begins with the clause or subclause number, the clause or subclause name, and the page number. In those cases containing changes to a particular row of a table, the value in that row's first column is appended to the title. As the lines in each XML schema are numbered starting at 1 and going to the end of a schema, corrections to schemas also contain the numbers of the lines being corrected.

A change can contain any one or more of the following kinds of edits:

1) Addition of text: New text is displayed in blue and is underlined, as demonstrated here.

2) Deletion of text: ~~Deleted text is displayed in red and is struck-through, as demonstrated here.~~

3) Change of format of text: Text whose format (but not its content) has changed is displayed in green and is double-underlined, as demonstrated here.

Many changes involve edits to large paragraphs, tables, and/or XML fragments. In such cases, the changes contain only as much unchanged content as is necessary to establish the correct context of each change. Omitted content is identified via the use of ellipses (…).

Within a change, intent that cannot be represented directly as an edit is written as an instruction in italic and delimited by curly brackets; for example: *{In paragraph 2, item 4, and in paragraph 4, make the numbers in the text "17–23" hyperlinked forward references to Clauses 17 and 23.}*

Contents

Changes

1. §3, "Normative References", p. 8

ISO/IEC 10646~~:2003~~, *Information technology — Universal Multiple-Octet Coded Character Set (UCS)*.

2. §3, "Normative References", p. 10

The Unicode Consortium. *The Unicode Standard*, ~~Version 5.0, defined by: The Unicode Standard, Version xx5.0 (Reading, MA, Addison-Wesley, 2006. ISBN 0-321-48091-0) ,~~
http://www.unicode.org/~~unicode~~standard/standard.html.

3. §3, "Normative References", p. 10

~~XML, Tim Bray, Eve Maler, Jean Paoli, C. M. Sperberg-McQueen, John Cowan, and François Yergeau (editors). *Extensible Markup Language (XML) 1.1*, Third Edition. World Wide Web Consortium. 2004.http://www.w3.org/TR/2004/REC-xml11-20040204/~~XML, Tim Bray, Jean Paoli, Eve Maler, C. M. Sperberg-McQueen, and François Yergeau (editors). *Extensible Markup Language (XML) 1.0*, Fourth Edition.[1] World Wide Web Consortium. 2006. http://www.w3.org/TR/2006/REC-xml-20060816/

[1] Implementers should be aware that a further correction of the normative reference to XML to refer to the 5th Edition will be necessary when the related Reference Specifications to which this International Standard also makes normative reference and which also depend upon XML, such as XSLT, XML Namespaces and XML Base, are all aligned with the 5th Edition.

4. §3, "Normative References", p. 11

XML Namespaces, Tim Bray,~~ Tim,~~ Dave Hollander, Andrew Layman, and Richard Tobin (editors). *Namespaces in XML 1.0~~1~~* (Third Edition), 8 December 2009. World Wide Web Consortium. ~~2004. http://www.w3.org/TR/2004/REC-xml-names11-20040204/~~
http://www.w3.org/TR/2009/REC-xml-names-20091208/

5. §4, "Terms and Definitions", p. 12

[*Note*: This ~~p~~Part uses OPC-related terms, which are defined in ISO/IEC 29500-2. *end note*]

6. §4, "Terms and Definitions", p. 13

OLE – OLE in this context does not refer to any specific technology; instead, it refers to the generalized abstraction of embedding and linking objects within a document.

7. §5, "Notational Conventions", p. 14

The following typographical conventions are used in ISO/IEC 29500:

1. The first occurrence of a new term is written in italics~~, as in "*normative*"~~. [*Example*: The text in ISO/IEC 29500 is divided into *normative* and *informative* categories. *end example*]

2. In each definition of a term in §4 (Terms and Definitions), the term is written in bold~~, as in "**behavior**"~~. [*Example*: **behavior** — External appearance or action. *end example*]
3. The tag name of an XML element is written using an Element style~~, as in "document"~~. [*Example*: The bookmarkStart and bookmarkEnd elements specify … *end example*]
4. The name of an XML attribute is written using an Attribute style~~, as in "id"~~. [*Example*: The dropCap attribute specifies … *end example*]
5. The value of an XML attribute is written using a constant-width style~~, as in "CommentReference"~~. [*Example*: The attribute value of `auto` specifies … *end example*]
6. The qualified or unqualified name of a simple type, complex type, or base datatype is written using a Type style~~, as in "xsd:anyURI~~". [*Example*: The possible values for this attribute are defined by the ST_HexColor simple type. *end example*]

8. §7, "General Description", p. 16

{Numbered list item 4: The numbers in "clauses 17–23" are not actual hyperlinked forward references, and should be.}

9. §8.1, "Packages and Parts", p. 17

(Packages are discussed further in ISO/IEC 29500-2.)

10. §9.2, "Relationships in Office Open XML", p. 23

All other relationships are implicit. [Note: … end note].

11. §10.1.2, "Office Open XML Native Extensibility Constructs", p. 28

See the reference material in §17–~~–~~23 …

12. §11.3.1, "Alternative Format Import Part", p. 32

Content Type:	One of the following formats: • Text = ~~application/~~text/plain • HTML = ~~application/~~text/html • WordprocessingML = application/vnd.openxmlformats-officedocument.wordprocessingml.document • XHTML = application/xhtml+xml

13. §11.3.11, "Numbering Definitions Part", p. 55

```
<w:lvl w:ilvl="0" w:tplc="151C4798">
  …
  <w:lvlJc w:val="start~~left~~"/>
```



```
  …
</w:lvl>
```

14. §11.3.11, "Numbering Definitions Part", p. 55

```
<w:pPr>
  <w:tabs>
    <w:tab w:val="list" w:pos="720"/>
  </w:tabs>
  <w:ind w:startleft="720" w:hanging="360"/>
</w:pPr>
```

15. §11.3.11, "Numbering Definitions Part", p. 55

```
<w:pPr>
  <w:tabs>
    <w:tab w:val="numlist" w:pos="720"/>
  </w:tabs>
  <w:ind w:left="720" w:hanging="360"/>
</w:pPr>
```

16. §11.3.12, "Style Definitions Part", p. 55

```
<w:styles xmlns:wx="…" xmlns:w="…" … xml:space="preserve">
  …
</w:styles>
```

17. §11.3.12, "Style Definitions Part", p. 56

```
<w:pPr>
  <w:pStyle w:val="ListBullet"/>
  …
  <w:ind w:startleft="648"/>
</w:pPr>
```

18. §11.6, "Master Documents and Subdocuments", p. 59

```
<w:document xmlns:r="…" xmlns:wx="…" …>
  …
</w:document>
```

19. §12.3.7, "Dialogsheet Part", p. 76

```
<sheets>
  …
  <sheet name="Dialog1" tabId="4" type="dialog" r:id="rId2"/>
</sheets>
```

20. §12.3.7, "Dialogsheet Part", p. 76

```
<sheets>
  …
  <sheet name="Dialog1" tabsheetId="4" type="dialog" r:id="rId2"/>
</sheets>
```

21. §12.3.9, "External Workbook References Part", p. 79

```
<sheets>
  <sheet name="Sheet1" tabsheetId="1" r:id="rId1"/>
  <sheet name="Sheet2" tabsheetId="2" r:id="rId2"/>
  <sheet name="Sheet3" tabsheetId="3" r:id="rId3"/>
</sheets>
```

22. §12.3.10, "Metadata Part", pp. 82–83

```
<pivotCacheDefinition … saveData="0" refreshedBy="…"
  refreshedDateIso="2005-11-28T16:55:44" backgroundQuery="1" createdVersion="3"
  refreshedVersion="3" recordCount="0">
  …
</pivotCacheDefinition>
```

23. §12.3.12, "Pivot Table Cache Definition Part", p. 85

```
<pivotCacheDefinition … r:id="rId1" refreshedBy="John Jones"
  refreshedDateIso="2005-11-18T16:47:49" createdVersion="3"
  refreshedVersion="3" recordCount="11">
  …
</pivotCacheDefinition>
```

24. §12.3.20, "Styles Part", p. 94

Root Namespace:	http://schemas.openxmlformats.org/spreadsheetml/2006/mains

25. §12.3.23, "Workbook Part", p. 98

```
<sheets>
  <sheet name="January" tabsheetId="1" r:id="rId1"/>
  <sheet name="February" tabsheetId="2" r:id="rId2"/>
  <sheet name="March" tabsheetId="3" r:id="rId3"/>
</sheets>
```

26. §12.3.24, "Worksheet Part", p. 101

A Worksheet part is permitted to have implicit relationships to the following parts defined by ISO/IEC 29500:

- Comments (§12.3.3)
- Pivot Table Definitions (§12.3.11)
- Printer Settings (§15.2.15)
- Query Table Part (§12.3.14)
- Single Cell Table Definitions (§12.3.19)
- Table Definition (§12.3.21)

27. §15.2.15, "Printer Settings Part", p. 162

[*Example*: … here: http://… *end example*]

28. §17.2.1, "background (Document Background)", p. 193, attribute color

Change "… *end example*]. RGB …" to "… *end example*]. RGB …"

29. §17.3.1.12, "ind (Paragraph Indentation)", p. 226

```
<w:pPr>
  <w:ind w:startleft="1440" w:endright="1440" w:hanging="1080" />
</w:pPr>
```

30. §17.3.1.13, "jc (Paragraph Alignment)", p. 231

```
<w:pPr>
  <w:jc w:val="endright" />
</w:pPr>
```

31. §17.3.1.27, "pStyle (Referenced Paragraph Style)", p. 253

[*Example*: Consider the following WordprocessingML fragment:

```
<w:pPr>
  <w:pStyle w:val="TestParagraphStyle" />
```

```
    <w:ind w:startleft="1440" />
  </w:pPr>
```

This paragraph specifies that it inherits all of the paragraph properties specified by the paragraph style with a styleId of `TestParagraphStyle`, which then has any indentation properties overridden with a startleft indentation of `1440` twentieths of a point, and no indentation for any other value. *end example*]

32. §17.3.1.27, "pStyle (Referenced Paragraph Style)", p. 253, attribute val

Attributes	Description

val (String Value)	…
	
	[*Example*: Consider the following WordprocessingML fragment:
	
	`<w:pPr>`
	`  <w:pStyle w:val="Heading1heading1" />`
	`</w:pPr>`
	
	…

33. §17.3.1.30, "rPr (Previous Run Properties for the Paragraph Mark)", p. 258

```
<w:lang w:val="en-CAca" />
```

34. §17.3.1.37, "tab (Custom Tab Stop)", p. 269

```
<w:tab w:val="startleft" w:pos="2160" />
```

35. §17.3.1.37, "tab (Custom Tab Stop)", p. 270, attribute pos

```
<w:tab w:val="startleft" w:pos="2160" />
```

36. §17.3.1.37, "tab (Custom Tab Stop)", p. 270, attribute val

```
<w:tab w:val="startleft" w:pos="2160" />
```

37. §17.3.1.38, "tabs (Set of Custom Tab Stops)", p. 271

```
<w:pPr>
  <w:tabs>
    <w:tab w:val="startleft" w:pos="2160" />
    <w:tab w:val="startleft" w:pos="5040" />
  </w:tabs>
</w:pPr>
```


38. §17.3.1.39, "textAlignment (Vertical Character Alignment on Line)", p. 272, attribute val

```
<w:pPr>
  <w:textAlignment w:val="baselLine" />
</w:pPr>
```

39. §17.3.1.40, "textboxTightWrap (Allow Surrounding Paragraphs to Tight Wrap to Text Box Contents)", p. 273

```
<w:pPr>
  <w:textboxTightWrap w:val="allLines" />
</w:pPr>
```

40. §17.3.1.41, "textDirection (Paragraph Text Flow Direction)", p. 275

[*Example*: Consider a document with a paragraph in which text must be oriented vertically, flowing from left to right horizontally on the page.~~should flow bottom-to-top vertically, and left to right horizontally.~~ This setting would be specified with the following WordprocessingML:

```
<w:pPr>
  <w:textDirection~~Flow~~ w:val="lrbtLr" />
</w:pPr>
```

The textDirection~~Flow~~ element specifies via the lrbtLr value in the val attribute that the text flow must be oriented vertically, with subsequent lines stacked from left to right.~~should go bottom-to-top, and left to right.~~ *end example*]

41. §17.3.1.41, "textDirection (Paragraph Text Flow Direction)", p. 275, attribute val

[*Example*: Consider a document with a section in which text must be oriented vertically, flowing from left to right horizontally on the page.~~should flow bottom-to-top vertically, and left to right horizontally.~~ This setting requires the following WordprocessingML:

```
<w:sectPr>
  …
  <w:textDirection w:val="lrbtLr" />
</w:sectPr>
```

The textDirection element specifies via the lrbtLr value in the val attribute that the text flow must be oriented vertically, with subsequent lines stacked from left to right.~~should go bottom-to-top, and left to right.~~ *end example*]

42. §17.3.2.5, "caps (Display All Characters As Capital Letters)", p. 285

[*Example*: Consider the words Hello, ~~W~~world, which must be displayed in all capital letters in a document. This constraint is specified as follows in the WordprocessingML:

```
<w:r>
  <w:rPr>
    <w:caps w:val="true" />
  </w:rPr>
  <w:t>Hello, ~~W~~world</w:t>
</w:r>
```

This run displays as HELLO, WORLD, even though the lowercase characters are used in the run contents due to the use of the caps element. If this property is removed, the original character forms is displayed (they are not lost). *end example*]

43. §17.3.2.26, "rFonts (Run Fonts)", p. 317, attribute cs

If the cs~~T~~theme attribute is also specified, then this attribute shall be ignored and that value shall be used instead.

44. §17.3.2.26, "rFonts (Run Fonts)", p. 318, attribute cstheme

[*Example*: Consider a run of Arabic text that~~which~~ must be displayed using the `majorBidi` theme font. This requirement would be specified as follows in the resulting WordprocessingML:

```
<w:rPr>
  <w:rFonts w:cs~~T~~theme="majorBidi" />
</w:rPr>
```

The cs~~T~~theme attribute specifies that the run must use the `majorBidi` theme font as defined in the document's themes part for all text in a complex script range. *end example*]

45. §17.3.2.27, "rPr (Previous Run Properties)", p. 321

```
<w:lang w:val="en-CA~~ca~~" />
```

46. §17.3.2.28, "rPr (Run Properties)", p. 323

```
<w:lang w:val="en-CA~~ca~~" />
```


47. §17.3.2.29, "rStyle (Referenced Character Style)", p. 326, attribute val

Attributes	Description

val (String Value)	…
	
	[*Example*: Consider the following WordprocessingML fragment:
	
	`<w:pPr>`
	`  <w:pStyle w:val="Heading1~~heading1~~" />`
	`</w:pPr>`
	
	…

48. §17.3.2.33, "smallCaps (Small Caps)", p. 330

[*Example*: Consider the words Hello, ~~w~~world, which must be displayed in small capital letters in a document. This constraint is specified as follows in the WordprocessingML:

```
<w:r>
  <w:rPr>
    <w:smallCaps w:val="true" />
    <w:sz w:val="24" />
  </w:rPr>
  <w:t>Hello, ~~w~~world</w:t>
</w:r>
```

… *end example*]

49. §17.3.3.18, "noBreakHyphen (Non Breaking Hyphen Character)", pp. 363–364

This element specifies that a non-breaking hyphen character shall be placed at the current location in the run content. ~~A *non-breaking hyphen* is the equivalent of Unicode character 002D (the hyphen-minus),; however, it shall not be used as a line breaking character for the current line of text when displaying this WordprocessingML content.~~

The behavior of a non-breaking hyphen in run content shall be to display using the same glyph as the hyphen-minus character (U+002D), however, without that hyphen being a line breaking position (unlike the hyphen-minus character, which does allow line breaking).

[*Example*: Consider the following sentence in a WordprocessingML document: 'Each citizen has a unique Social Security Number of the form "999-99-9999", where each 9 represents a decimal digit.' The fragment of this sentence involving the string literal might be represented in WordprocessingML, as follows:


```
<w:r>
  <w:t>Number of the form “999-99-9999”, where</w:t>
</w:r>
```

However, consider the case in which, on rendering, the right margin was such that the quoted string is broken across multiple lines with the hyphens being used as possible line breaking points; for example:.

```
Each citizen has a unique Social Security Number of the form “999-99-
9999”, where …
```

If such line breaks are undesirable, those hyphens can be marked as non-breaking, as follows:

```
<w:r>
  <w:t>Number of the form “999</w:t>
</w:r>
<w:r>
  <w:noBreakHyphen />
  <w:t>99</w:t>
</w:r>
<w:r>
  <w:noBreakHyphen />
  <w:t>9999”, where</w:t>
</w:r>
```

in which case, for the same margin settings, the rendered result might be like the following:

```
Each citizen has a unique Social Security Number of the form
“999-99-9999”, where …
```

end example]

~~[*Example*: Consider the following sentence in a WordprocessingML document:~~

```
This makes a very very very wordy and deliberately overcomplicated sentence.
```

~~Normally, just as shown above, this sentence not would be displayed on a single line as it is long enough to require line breaking (given the width of the current page). However, if a hyphen minus were inserted after the letter s in sentence, as follows:~~

```
<w:r>
  <w:t>This makes a very very very wordy and deliberately overcomplicated s-
entence.</w:t>
</w:r>
```

~~This would allow a break at that position, and break the word after that character:~~

```
This makes a very very very wordy and deliberately overcomplicated s-entence.
```


~~If this was not desired, the non breaking hyphen character could be specified as follows:~~

```
<w:r>
  <w:t>This makes a very very very wordy and deliberately overcomplicated
s</w:t>
  <w:nonBreakHyphen/>
  <w:t>entence.</w:t>
</w:r>
```

~~This would display a hyphen character, but would not allow the text to break at that location:~~

~~This makes a very very very wordy and deliberately overcomplicated s-entence.~~

~~*end example*~~]

50. §17.3.3.20, "objectEmbed (Embedded Object Properties)", p. 366, attribute fieldCodes

Attributes	Description
fieldCodes (Field Switches)	This element specifies the WordprocessingML field switches which shall be stored with an embedded object, using the set of field switches defined by the LINK field, as specified in §17.16.5.32. This element shall specify the exact field switches for the field which represents the object. … [*Example*: `<w:objectEmbed … fieldCodes="\f 0"/>` This embedded object specifies additional LINK field code values of \f 0, which specifies that the embedded object must retain its source formatting (as defined in §17.16.5.32). *end example*] …

51. §17.3.3.21, "objectLink (Linked Object Properties)", p. 368, attribute fieldCodes

Attributes	Description
fieldCodes (Field Switches)	This element specifies the WordprocessingML field switches which shall be stored with an embedded object, using the set of field switches defined by the LINK field, as specified in §17.16.5.32. This element shall specify the exact field switches for the field which represents the object. … [*Example*: `<w:objectEmbed … fieldCodes="\f 0"/>` This embedded object specifies additional LINK field code values of \f 0, which specifies that the embedded object must retain its source formatting (as defined in §17.16.5.32). *end example*] …

52. §17.3.3.23, "ptab (Absolute Position Tab Character)", p. 371

```
<w:pPr>
  <w:tabs>
    <w:tab w:val="start~~left~~" w:pos="2160" />
    <w:tab w:val="start~~left~~" w:pos="5040" />
  </w:tabs>
</w:pPr>
```

53. §17.3.3.32, "tab (Tab Character)", p. 383

```
<w:pPr>
  <w:tabs>
    <w:tab w:val="start~~left~~" w:pos="2160" />
    <w:tab w:val="start~~left~~" w:pos="5040" />
  </w:tabs>
</w:pPr>
```

54. §17.3.4, "Border Properties (CT_Border)", p. 388, attribute themeShade

Change "… instance. If the …" to "… instance. If the …"

55. §17.4, "Tables", p. 399

```
<w:tblBorders>
  …
  <w:start~~left~~ w:val="single" w:sz="4" w:space="0" w:color="auto"/>
```



```
    …
    <w:endright w:val="single" w:sz="4" w:space="0" w:color="auto"/>
  </w:tblBorders>
```

56. §17.4.18, "header (Header Cell Reference)", p. 431, attribute val

Attributes	Description

val (String Value)	…
	
	[*Example*: Consider the following WordprocessingML fragment:
	
	`<w:pPr>`
	`  <w:pStyle w:val="Heading1heading1" />`
	`</w:pPr>`
	
	…

57. §17.4.22, "hMerge (Horizontally Merged Cell)", p. 436

```
<w:tc>
  <w:tcPr>
    <w:hMmerge w:val="restart"/>
  </w:tcPr>
  …
</w:tc>
<w:tc>
  <w:tcPr>
    <w:hMmerge/>
  </w:tcPr>
  …
</w:tc>
…
```

The hMmerge element defines the cells thatwhich are horizontally merged, and how each group is merged together. *end example*]

58. §17.4.22, "hMerge (Horizontally Merged Cell)", p. 436, attribute val

```
<w:tcPr>
  <w:hMmerge w:val="restart"/>
</w:tcPr>
```

59. §17.4.27, "jc (Table Alignment Exception)", p. 441

```
<w:tblPrEx>
  <w:jc w:val="startleft"/>
</w:tblPrEx>
```

60. §17.4.28, "jc (Table Row Alignment)", p. 442

```
<w:trPr>
  <w:jc w:val="startleft"/>
</w:trPr>
```

61. §17.4.29, "jc (Table Alignment)", p. 443

```
<w:tblPr>
  <w:jc w:val="endright"/>
</w:tblPr>
```

62. §17.4.31, "shd (Table Shading Exception)", p. 446

```
<w:tblPrEx>
  <w:jc w:val="startleft" />
  <w:shd w:val="clear" w:color="auto" w:fill="EEECE1" w:themeFill="background2"
    />
</w:tblPrEx>
```

63. §17.4.38, "tbl (Table)", p. 453

```
<w:tblBorders>
  …
  <w:startleft w:val="single" w:sz="4" w:space="0" w:color="auto"/>
  …
  <w:endright w:val="single" w:sz="4" w:space="0" w:color="auto"/>
</w:tblBorders>
```

64. §17.4.39, "tblBorders (Table Borders)", p. 455

```
<w:tblBorders>
  …
  <w:startleft w:val="single" w:sz="4" w:space="0" w:color="000000"
    w:themeColor="text1"/>
  …
  <w:endright w:val="single" w:sz="4" w:space="0" w:color="000000"
    w:themeColor="text1"/>
```

```
  …
<w:tblBorders>
```

65. §17.4.40, "tblBorders (Table Borders Exceptions)", p. 457

```
<w:tblBorders>
  …
  <w:start~~left~~ w:val="single" w:sz="24" w:space="0" w:color="000000"
    w:themeColor="text1"/>
  …
  <w:end~~right~~ w:val="single" w:sz="24" w:space="0" w:color="000000"
    w:themeColor="text1"/>
  …
</w:tblBorders>
```

66. §17.4.41, "tblCaption (Table Caption)", p. 458, attribute val

Attributes	Description

val (String Value)	…
	
	[*Example*: Consider the following WordprocessingML fragment:
	
	`<w:pPr>`
	`  <w:pStyle w:val="Heading1~~heading1~~" />`
	`</w:pPr>`
	
	…

67. §17.4.42, "tblCellMar (Table Cell Margin Exceptions)", p. 459

```
<w:tblCellMar>
  …
  <w:start~~left~~ w:w="144" w:type="dxa"/>
  …
  <w:end~~right~~ w:w="144" w:type="dxa"/>
</w:tblCellMar>
```

68. §17.4.43, "tblCellMar (Table Cell Margin Defaults)", p. 460

```
<w:tblCellMar>
  …
  <w:start~~left~~ w:w="144" w:type="dxa"/>
  …
  <w:end~~right~~ w:w="144" w:type="dxa"/>
</w:tblCellMar>
```

69. §17.4.47, "tblDescription (Table Description)", p. 465, attribute val

Attributes	Description

val (String Value)	…
	
	[*Example*: Consider the following WordprocessingML fragment:
	
	`<w:pPr>`
	`  <w:pStyle w:val="Heading1~~heading1~~" />`
	`</w:pPr>`
	
	…

70. §17.4.51, "tblInd (Table Indent from Leading Margin)", p. 469

```
<w:tblPr>
  <w:jc w:val="start~~left~~"/>
  <w:tblInd w:w="1440" w:type="dxa"/>
</w:tblPr>
```

…

```
<w:tblPr>
  <w:jc w:val="end~~right~~"/>
  <w:tblInd w:w="1440" w:type="dxa"/>
</w:tblPr>
```

71. §17.4.59, "tblPr (Previous Table Properties)", p. 483

```
<w:tblPr>
  …
  <w:tblLook ~~w:val="04A0"~~w:firstRow="true" w:firstColumn="true"
    w:noVBand="true" />
  <w:tblPrChange w:id="0" … >
  <w:tblPr>
    …
    <w:tblLook ~~w:val="04A0"~~w:firstRow="true" w:firstColumn="true"
      w:noVBand="true"/>
  </w:tblPr>
  </w:tblPrChange>
</w:tblPr>
```

72. §17.4.60, "tblPr (Table Properties)", p. 485

```
<w:tblBorders>
  …
```



```
    <w:startleft w:val="single" w:sz="4" w:space="0" w:color="auto"/>
    …
    <w:endright w:val="single" w:sz="4" w:space="0" w:color="auto"/>
    …
  </w:tblBorders>
```

73. §17.4.61, "tblPrEx (Table-Level Property Exceptions)", p. 487

```
  <w:tblBorders>
    …
    <w:startleft w:val="thinThickThinMediumGap" w:sz="24" w:space="0"
      w:color="auto"/>
    …
    <w:endright w:val="thinThickThinMediumGap" w:sz="24" w:space="0"
      w:color="auto"/>
    …
  </w:tblBorders>
```

74. §17.4.62, "tblPrEx (Previous Table-Level Property Exceptions)", p. 489

```
  <w:tr>
    <w:tblPrEx>
      <w:tblBorders>
        …
        <w:startleft w:val="thinThickThinMediumGap" w:sz="24" w:space="0"
          w:color="auto"/>
        …
        <w:endright w:val="thinThickThinMediumGap" w:sz="24" w:space="0"
          w:color="auto"/>
        …
      </w:tblBorders>
      <w:tblPrExChange w:id="9" … >
        <w:tblPrEx>
          <w:tblBorders>
            …
            <w:startleft w:val="thinThickThinSmallGap" w:sz="24" w:space="0"
              w:color="FF0000"/>
            …
            <w:endright w:val="thinThickThinSmallGap" w:sz="24" w:space="0"
              w:color="FF0000"/>
            …
          </w:tblBorders>
    …
  </w:tr>
```

75. §17.4.63, "tblStyle (Referenced Table Style)", p. 491, attribute val

Attributes	Description

val (String Value)	…
	
	[*Example*: Consider the following WordprocessingML fragment:
	
	`<w:pPr>`
	`  <w:pStyle w:val="Heading1heading1" />`
	`</w:pPr>`
	
	…

76. §17.4.65, "tblW (Preferred Table Width Exception)", p. 493

```
<w:tblPrEx>
  <w:tblW w:type="autofixed" w:w="1440"/>
</w:tblPrEx>
```

77. §17.4.66, "tc (Table Cell)", pp. 494–495

[*Example*: Consider a table consisting of a single table cell, which contains the text `Hello, Wworld`:

Hello, Wworld

This table cell's content is represented by the following WordprocessingML:

```
<w:tc>
  <w:tcPr>
    <w:tcW w:w="0" w:type="auto"/>
  </w:tcPr>
  <w:p>
    <w:r>
      <w:t>Hello, Wworld</w:t>
    </w:r>
  </w:p>
</w:tc>
```

… *end example*]

78. §17.4.67, "tcBorders (Table Cell Borders)", p. 499

```
<w:tcPr>
  <w:tcBorders>
    …
```



```
      <w:startleft w:val="double" w:sz="24" w:space="0" w:color="FF0000"/>
      …
      <w:endright w:val="double" w:sz="24" w:space="0" w:color="FF0000"/>
    </w:tcBorders>
  </w:tcPr>
```

79. §17.4.69, "tcMar (Single Table Cell Margins)", p. 501

```
<w:tcMar>
  <w:top w:w="720" w:type="dxa"/>
  <w:startleft w:w="720" w:type="dxa"/>
  <w:bottom w:w="720" w:type="dxa"/>
  <w:endright w:w="720" w:type="dxa"/>
</w:tcMar>
```

80. §17.4.70, "tcPr (Table Cell Properties)", p. 502

```
<w:tbl>
  <w:tblPr>
    <w:tblCellMar>
      <w:startleft w:w="0" w:type="dxa"/>
    </w:tblCellMar>
  </w:tblPr>
  …
  <w:tr>
    <w:tc>
      <w:tcPr>
        <w:tcMar>
          <w:startleft w:w="720" w:type="dxa"/>
        </w:tcMar>
      </w:tcPr>
      …
    </w:tc>
  </w:tr>
</w:tbl>
```

81. §17.4.73, "textDirection (Table Cell Text Flow Direction)", p. 507

[*Example*: Consider a table with one cell in which all the table cell's text flow is oriented vertically, flowing from right to left horizontally within that celltop to bottom - right to left:

Text in this table cell

This table cell would specify this text flow using the following WordprocessingML:

```
<w:tc>
  <w:tcPr>
    …
    <w:textDirection w:val="rl~~tbRl~~" />
  </w:tcPr>
  …
</w:tc>
```

The textDirection element specifies via the rl~~tbRl~~ value in the val attribute that the text flow is to be oriented vertically, with subsequent lines stacked from right to left.~~should go top to bottom, then right to left~~. *end example*]

82. §17.4.73, "textDirection (Table Cell Text Flow Direction)", p. 508, attribute val

[*Example*: Consider a document with a section in which text must be oriented vertically, flowing from left to right horizontally on the page.~~should flow bottom to top vertically, and left to right horizontally.~~ This setting requires the following WordprocessingML:

```
<w:sectPr>
  …
  <w:textDirection w:val="lr~~btLr~~" />
</w:sectPr>
```

The textDirection element specifies via the lr~~btLr~~ value in the val attribute that the text flow must be oriented vertically, with subsequent lines stacked from left to right.~~ go bottom to top, and left to right.~~ *end example*]

83. §17.4.79, "tr (Table Row)", pp. 512–513

[*Example*: Consider a table consisting of a single table cell, which contains the text `Hello, ~~W~~world`:

Hello World

This table row's content is represented by the following WordprocessingML:

```
<w:tr>
  <w:tc>
    <w:tcPr>
      <w:tcW w:w="0" w:type="auto"/>
    </w:tcPr>
    <w:p>
      <w:r>
        <w:t>Hello, wworld</w:t>
      </w:r>
    </w:p>
  </w:tc>
</w:tr>
```

... *end example*]

84. §17.4.85, "vMerge (Vertically Merged Cell)", pp. 523–524

```
<w:tc>
  <w:tcPr>
    <w:vMmerge w:val="restart"/>
  </w:tcPr>
  …
</w:tc>
…
<w:tc>
  <w:tcPr>
    <w:vMmerge w:val="continue"/>
  </w:tcPr>
  …
</w:tc>
…
<w:tc>
  <w:tcPr>
    <w:vMmerge w:val="continue"/>
  </w:tcPr>
  …
</w:tc>
…
```

The vMmerge element defines the cells thatwhich are vertically merged, and how each cell is merged together. *end example*]

85. §17.4.85, "vMerge (Vertically Merged Cell)", pp. 523–524, attribute val

```
<w:tcPr>
  <w:vMmerge w:val="restart"/>
</w:tcPr>
```

86. §17.4.88, "Table Measurement (CT_TblWidth)", p. 527

Attributes	Description
type (Table Width Type)	… [*Example*: … *end example*] If the value of the type attribute and the actual measurement specified by the w attribute are contradictory, the type specified by the type attribute shall be ignored. …

87. §17.5, "Custom Markup", p. 528

For these scenarios, multiple facilities are provided for the ~~insertion and round-tripping~~inclusion of customer-defined semantics within a WordprocessingML document.

88. §17.5.1, "Custom XML and Smart Tags", p. 529

The next form~~example~~ of customer-defined semantics that~~which~~ can be embedded in a WordprocessingML document is custom XML markup.

89. §17.5.1, "Custom XML and Smart Tags", p. 529

Custom XML markup allows the application of the XML elements defined in any schema syntax (XML Schema, NVDL, etc.) to be applied to the contents of a WordprocessingML document in ~~one of~~ two types of location~~s~~:

90. §17.5.1, "Custom XML and Smart Tags", p. 530

~~Similar to the smart tag example above, a~~A custom XML element in a document has two required attributes:

91. §17.5.1.1, "attr (Custom XML Attribute)", p. 531

The attributes on this element shall be used to specify ~~the contents~~the Namespace URI, name, and content of the custom XML attribute.

92. §17.5.1.1, "attr (Custom XML Attribute)", p. 531

This ~~property bag~~set of custom XML properties specifies that the parent custom XML element must have two attributes associated with it, the first with a name of `companyName`, and the second with a name of `companySymbol`. *end example*]

93. §17.5.1.3, "customXml, Inline-Level Custom XML Element", p. 534

Parent Elements
bdo (§17.3.2.3); customXml (§17.5.1.3); deg (§22.1.2.26); del (§17.13.5.14); den (§22.1.2.28); dir (§17.3.2.8); e (§22.1.2.32); fldSimple (§17.16.19); fName (§22.1.2.37); hyperlink (§17.16.22); ins (§17.13.5.18); lim (§22.1.2.52); moveFrom (§17.13.5.22); moveTo (§17.13.5.25); num (§22.1.2.75); oMath (§22.1.2.77); p (§17.3.1.22); sdtContent (§17.5.2.36); smartTag (§17.5.1.9); sub (§22.1.2.112); sup (§22.1.2.114)

94. §17.5.1.8, "placeholder (Custom XML Element Placeholder Text)", p. 545–546, attribute val

Attributes	Description

val (String Value)	…
	
	[*Example*: Consider the following WordprocessingML fragment:
	
	`<w:pPr>`
	`  <w:pStyle w:val="Heading1~~heading1~~" />`
	`</w:pPr>`
	
	…

95. §17.5.1.9, "SmartTag, Inline-Level Smart Tag", p. 547

Parent Elements
bdo (§17.3.2.3); customXml (§17.5.1.3); deg (§22.1.2.26); del (§17.13.5.14); den (§22.1.2.28); dir (§17.3.2.8); e (§22.1.2.32); fldSimple (§17.16.19); fName (§22.1.2.37); hyperlink (§17.16.22); ins (§17.13.5.18); lim (§22.1.2.52); moveFrom (§17.13.5.22); moveTo (§17.13.5.25); num (§22.1.2.75); oMath (§22.1.2.77); p (§17.3.1.22); sdtContent (§17.5.2.36); smartTag (§17.5.1.9); sub (§22.1.2.112); sup (§22.1.2.114)

96. §17.5.2.1, "alias (Friendly Name)", p. 551, attribute val

Attributes	Description

val (String Value)	…
	
	[*Example*: Consider the following WordprocessingML fragment:
	
	`<w:pPr>`
	`  <w:pStyle w:val="Heading1~~heading1~~" />`
	`</w:pPr>`
	
	…

97. §17.5.2.5, "comboBox (Combo Box Structured Document Tag)", p. 554

- The child elements of this element specify choices which shall be presented to the user ~~displayed in a standard drop-down list format~~

98. §17.5.2.5, "comboBox (Combo Box Structured Document Tag)", pp. 555–556

[*Example*: Consider a combo box structured document tag defined as follows:

```
<w:sdt>
  <w:sdtPr>
    <w:dataBinding … />
    <w:comboBox w:lastValue="2"/>
  </w:sdtPr>
  <w:sdtContent>
    <w:r>
      <w:t>Hello, world</w:t>
    </w:r>
  </w:sdtContent>
</w:sdt>
```

The current run content of the structured document tag reads `Hello, world`. When this document is opened, if the current value of the associated custom XML data is 2, the matching lastValue attribute specifies that the contents of the combo box must continue to be the current display text of the combo box even though there is no listItem whose value is 2 (and normally, the content of the structured document tag would be set to 2. Essentially, this attribute specifies a listItem whose value is 2 and whose displayText is `Hello, world` (the current structured document tag contents). *end example*]

99. §17.5.2.8, "dateFormat (Date Display Mask)", p. 562, attribute val

Attributes	Description

val (String Value)	…
	
	[*Example*: Consider the following WordprocessingML fragment:
	
	`<w:pPr>`
	`  <w:pStyle w:val="Heading1~~heading1~~" />`
	`</w:pPr>`
	
	…

100. §17.5.2.9, "docPart (Document Part Reference)", p. 563, attribute val

Attributes	Description

val (String Value)	…
	
	[*Example*: Consider the following WordprocessingML fragment:
	
	`<w:pPr>`
	`  <w:pStyle w:val="Heading1~~heading1~~" />`
	`</w:pPr>`
	
	…

101. §17.5.2.10, "docPartCategory (Document Part Category Filter)", p. 564–565, attribute val

Attributes	Description

val (String Value)	…
	
	[*Example*: Consider the following WordprocessingML fragment:
	
	`<w:pPr>`
	`  <w:pStyle w:val="Heading1~~heading1~~" />`
	`</w:pPr>`
	
	…

102. §17.5.2.11, "docPartGallery (Document Part Gallery Filter)", p. 566, attribute val

Attributes	Description

val (String Value)	…
	
	[*Example*: Consider the following WordprocessingML fragment:
	
	`<w:pPr>`
	`  <w:pStyle w:val="Heading1~~heading1~~" />`
	`</w:pPr>`
	
	…

103. §17.5.2.15, "dropDownList (Drop-Down List Structured Document Tag)", p. 570

[*Example*: Consider a drop-down list structured document tag defined as follows:

```
<w:sdt>
  <w:sdtPr>
    <w:dataBinding … />
    <w:dropDownList w:lastValue="2"/>
  </w:sdtPr>
  <w:sdtContent>
    <w:r>
      <w:t>Hello, world</w:t>
    </w:r>
  </w:sdtContent>
</w:sdt>
```

The current run content of the structured document tag reads `Hello, world`. When this document is opened, if the current value of the associated custom XML data is 2, the matching lastValue attribute specifies that the contents of the combo box must continue to be the current display text of the combo box even though there is no listItem whose value is 2 (and normally, the content of the structured document tag would be set to 2. Essentially, this attribute specifies a listItem whose value is 2 and whose displayText is `Hello, world` (the current structured document tag contents). *end example*]

104. §17.5.2.31, "sdt, Inline-Level Structured Document Tag", p. 590

Parent Elements
bdo (§17.3.2.3); customXml (§17.5.1.3); deg (§22.1.2.26); del (§17.13.5.14); den (§22.1.2.28); dir (§17.3.2.8); e (§22.1.2.32); fldSimple (§17.16.19); fName (§22.1.2.37); hyperlink (§17.16.22); ins (§17.13.5.18); lim (§22.1.2.52); moveFrom (§17.13.5.22); moveTo (§17.13.5.25); num (§22.1.2.75); oMath (§22.1.2.77); p (§17.3.1.22); sdtContent (§17.5.2.36); smartTag (§17.5.1.9); sub (§22.1.2.112); sup (§22.1.2.114)

105. §17.5.2.42, "tag (Programmatic Tag)", p. 606, attribute val

Attributes	Description

val (String Value)	…
	
	[*Example*: Consider the following WordprocessingML fragment:
	
	`<w:pPr>`
	`  <w:pStyle w:val="Heading1~~heading1~~" />`
	`</w:pPr>`
	
	…

106. §17.6.11, "pgMar (Page Margins)", p. 641

```
<w:sectPr>
  <w:pgMar w:header="720" w:bottom="1440" w:top="1440" w:right="1440"
    w:left="1440" w:footer="720" w:gutter="0" />
  …
</w:sectPr>
```

107. §17.6.2, "bottom (Bottom Border)", p. 617, attribute themeShade

Change "… instance. If the …" to "… instance. If the …"

108. §17.6.5, "docGrid (Document Grid)", p. 623

[*Example*: Consider a document with the document grid defined to allow 20 characters per line, and 20 lines per page by snapping characters to the grid (type attribute of ~~snapTOCars~~snapToChars) as follows:

109. §17.6.5, "docGrid (Document Grid)", p. 626, attribute value type

Attributes	Description
type (Document Grid Type)	… [*Example*: … This document has a type attribute of ~~snapTOCars~~snapToChars, which specifies that the grid must force East Asian characters to fit 20 to a line. *end example*] …

110. §17.6.7, "left (Left Border)", p. 632, attribute themeShade

Change "… instance. If the …" to "… instance. If the …"

111. §17.6.15, "right (Right Border)", p. 655, attribute themeShade

Change "… instance. If the …" to "… instance. If the …"

112. §17.6.20, "textDirection (Text Flow Direction)", p. 667

[*Example*: Consider a document with a section in which text must be oriented vertically, flowing from left to right horizontally on the page.~~should flow bottom to top vertically, and left to right horizontally.~~ This setting requires the following WordprocessingML:

```
<w:sectPr>
  …
  <w:textDirection w:val="lr~~btLr~~" />
</w:sectPr>
```

The textDirection element specifies via the lr~~btLr~~ value in the val attribute that the text flow must be oriented vertically, with subsequent lines stacked from left to right.~~ go bottom to top, and left to right.~~ *end example*]

113. §17.6.20, "textDirection (Text Flow Direction)", p. 667, attribute val

[*Example*: Consider a document with a section in which text must be oriented vertically, flowing from left to right horizontally on the page.~~should flow bottom to top vertically, and left to right horizontally.~~ This setting requires the following WordprocessingML:

```
<w:sectPr>
  …
  <w:textDirection w:val="lr~~btLr~~" />
</w:sectPr>
```

The textDirection element specifies via the lr~~btLr~~ value in the val attribute that the text flow must be oriented vertically, with subsequent lines stacked from left to right.~~ go bottom to top, and left to right.~~ *end example*]

114. §17.6.21, "top (Top Border)", p. 673, attribute themeShade

Change "… instance. If the …" to "… instance. If the …"

115. §17.7.4, "General Style Properties", p. 683

[*Example:* Consider a style called Heading 1 in a document as follows:

```
<w:style w:type="paragraph" w:styleId="Heading1">
  <w:name w:val="hHeading 1"/>
  <w:basedOn w:val="Normal"/>
  <w:next w:val="Normal"/>
  <w:link w:val="Heading1Char"/>
  <w:uiPriority w:val="1"/>
  <w:qformat/>
  <w:rsid w:val="00F303CE"/>
  …
</w:style>
```

116. §17.7.4, "General Style Properties", p. 683

```
<w:style w:type="paragraph" w:styleId="Heading1">
  …
  <w:qFformat/>
  …
</w:style>
```

117. §17.7.4.1, "aliases (Alternate Style Names)", p. 684, attribute val

Attributes	Description

val (String Value)	…
	
	[*Example*: Consider the following WordprocessingML fragment:
	
	`<w:pPr>`
	`<w:pStyle w:val="Heading1heading1" />`
	`</w:pPr>`
	
	…

118. §17.7.4.3, "basedOn (Parent Style ID)", p. 688, attribute val

Attributes	Description

val (String Value)	…
	
	[*Example*: Consider the following WordprocessingML fragment:
	
	`<w:pPr>`
	`  <w:pStyle w:val="Heading1~~heading1~~" />`
	`</w:pPr>`
	
	…

119. §17.7.4.6, "link (Linked Style Reference)", p. 694, attribute val

Attributes	Description

val (String Value)	…
	
	[*Example*: Consider the following WordprocessingML fragment:
	
	`<w:pPr>`
	`  <w:pStyle w:val="Heading1~~heading1~~" />`
	`</w:pPr>`
	
	…

120. §17.7.4.9, "name (Primary Style Name)", p. 699, attribute val

Attributes	Description

val (String Value)	…
	
	[*Example*: Consider the following WordprocessingML fragment:
	
	`<w:pPr>`
	`  <w:pStyle w:val="Heading1~~heading1~~" />`
	`</w:pPr>`
	
	…

121. §17.7.4.10, "next (Style For Next Paragraph)", p. 701, attribute val

Attributes	Description

val (String Value)	…
	
	[*Example*: Consider the following WordprocessingML fragment:
	
	`<w:pPr>`
	`  <w:pStyle w:val="Heading1~~heading1~~" />`
	`</w:pPr>`
	
	…

122. §17.7.4.17, "style (Style Definition)", pp. 706–707

[*Example:* Consider a style called Heading 1 in a document as follows:

```
<w:style w:type="paragraph" w:styleId="Heading1">
  <w:name w:val="~~h~~Heading 1"/>
  <w:basedOn w:val="Normal"/>
  <w:next w:val="Normal"/>
  <w:link w:val="Heading1Char"/>
  <w:uiPriority w:val="1"/>
  <w:qformat/>
  <w:rsid w:val="00F303CE"/>
  …
</w:style>
```

123. §17.7.4.17, "style (Style Definition)", p. 707

```
<w:style w:type="paragraph" w:styleId="Heading1">
  …
  <w:qF~~f~~ormat/>
  …
</w:style>

<w:style w:type="paragraph" w:styleId="Heading1">
  …
  <w:qF~~f~~ormat/>
  …
</w:style>
```

124. §17.7.4.17, "style (Style Definition)", p. 708

```
<w:tblCellMar>
  …
  <w:startleft w:w="108" w:type="dxa"/>
  …
  <w:endright w:w="108" w:type="dxa"/>
</w:tblCellMar>
```

125. §17.7.5, "Document Defaults", p. 715

[*Example*: Consider the following fragment from the main document part of a WordprocessingML document:

```
<w:body>
  <w:p>
    <w:r>
      <w:t>Hello, worldl</w:t>
    </w:r>
  </w:p>
</w:body>
```

… *end example*]

126. §17.7.5.1, "docDefaults (Document Default Paragraph and Run Properties)", p. 716

```
<w:body>
  <w:p>
    <w:r>
      <w:t> Hello, worldl</w:t>
    </w:r>
  </w:p>
</w:body>
```

127. §17.7.5.1, "docDefaults (Document Default Paragraph and Run Properties)", p. 716

```
<w:docDefaults>
  <w:rPrDefault>
    <w:rPr>
      <w:b/>
    </w:rPr>
  </w:rPrDefault>
```



```
    <w:pPrDefault>
      <w:pPr>
        <w:jc w:val="center"/>
      </w:pPr>
    </w:pPrDefault>
    <w:rPrDefault>
      <w:rPr>
        <w:b/>
      </w:rPr>
    </w:rPrDefault>
  </w:docDefaults>
```

128. §17.7.6, "Table Styles", p. 724

```
  <w:tblPr>
    <w:tblBorders>
      …
      <w:startleft w:val="single" w:sz="4" w:space="0" w:color="auto"/>
      …
      <w:endright w:val="single" w:sz="4" w:space="0" w:color="auto"/>
      …
    </w:tblBorders>
    <w:tblCellMar>
      …
      <w:startleft w:w="108" w:type="dxa"/>
      …
      <w:endright w:w="108" w:type="dxa"/>
    </w:tblCellMar>
  </w:tblPr>
```

129. §17.7.6, "Table Styles", p. 725

The use or omission of conditional formats shall be specified using the tblLook element, which contains a ~~bitmask representing~~ a number of attributes that indicate which properties are applied and omitted.

…

```
  <w:tbl>
    <w:tblPr>
      …
      <w:tblLook w:val="0660"w:firstRow="true" w:lastRow="true"
        w:noHBand="true" w:noVBand="true"/>
    </w:tblPr>
```

```
    …
  </w:tbl>
  …
  <w:tbl>
    <w:tblPr>
      …
      <w:tblLook w:val="0460"w:firstRow="true" w:lastRow="true"
        w:noVBand="true"/>
    </w:tblPr>
  …
  </w:tbl>
```

130. §17.7.6.8, "tcPr (Table Style Conditional Formatting Table Cell Properties)", p. 736

```
  <w:tcBorders>
    …
    <w:startleft w:val="nil" />
    …
    <w:endright w:val="nil" />
    …
  </w:tcBorders>
```

131. §17.7.8, "Paragraph Styles", p. 742

```
  <w:style w:type="paragraph" w:styleId="TestParagraphStyle">
    …
    <w:qFformat/>
    …
  </w:style>
```

132. §17.7.8.1, "Numbering in Paragraph Styles", p. 744

```
  <w:pPr>
    <w:tabs>
      <w:tab w:val="num" w:pos="720" />
    </w:tabs>
    <w:ind w:startleft="720" w:hanging="360" />
  </w:pPr>
```

133. §17.7.9, "Run (Character) Styles", p. 747

```
  <w:style w:type="character" w:styleId="TestCharacterStyle">
    …
    <w:qFformat/>
```

```
  …
</w:style>
```

134. §17.8.3.1, "altName (Alternate Names for Font)", p. 752, attribute val

Attributes	Description

val (String Value)	…
	
	[*Example*: Consider the following WordprocessingML fragment:
	
	`<w:pPr>`
	`  <w:pStyle w:val="Heading1~~heading1~~" />`
	`</w:pPr>`
	
	…

135. §17.8.3.13, "panose1 (Panose-1 Typeface Classification Number)", p. 766

This element specifies the Panose-1 classification number ~~for the current font using the mechanism defined~~ shown in §4.2.7.17 of ISO/IEC 14496-22:2007. This information can be used as defined in font substitution logic to locate an appropriate substitute font when this font is not available. This information is determined by querying the font when present and shall not be modified when the font is not available.

136. §17.9, "Numbering", p. 773

```
<w:lvl w:ilvl="0">
  <w:start w:val="1" />
  <w:lvlText w:val="%1." />
  <w:lvlJc w:val="start~~left~~" />
  …
</w:lvl>
```

137. §17.9, "Numbering", p. 773

```
<w:pPr>
  <w:tabs>
    <w:tab w:val="num" w:pos="720" />
  </w:tabs>
  <w:ind w:start~~left~~="720" w:hanging="360" />
</w:pPr>
```

138. §17.9.1, "abstractNum (Abstract Numbering Definition)", p. 774

```
<w:pPr>
  <w:tabs>
    <w:tab w:val="num" w:pos="720" />
```

```
    </w:tabs>
    <w:ind w:start~~left~~="720" w:hanging="360" />
  </w:pPr>
```

139. §17.9.1, "abstractNum (Abstract Numbering Definition)", pp. 774–775

```
<w:lvl w:ilvl="0">
  <w:start w:val="1" />
  <w:lvlText w:val="%1." />
  <w:lvlJc w:val="start~~left~~" />
  …
</w:lvl>
```

140. §17.9.1, "abstractNum (Abstract Numbering Definition)", p. 775, attribute abstractNumId

```
<w:pPr>
  <w:tabs>
    <w:tab w:val="num" w:pos="720" />
  </w:tabs>
  <w:ind w:start~~left~~="720"/>
</w:pPr>
```

141. §17.9.5, "legacy (Legacy Numbering Level Properties)", p. 780

```
<w:lvl w:ilvl="0">
  …
  <w:legacy w:legacySpace="820" w:legacyIndent="960" />
  <w:lvlJc w:val="start~~left~~" />
  …
</w:lvl>
```

142. §17.9.5, "legacy (Legacy Numbering Level Properties)", p. 780

```
<w:pPr>
  <w:ind w:start~~left~~="360" w:hanging="360" />
</w:pPr>
```

143. §17.9.6, "lvl (Numbering Level Override Definition)", p. 782

```
<w:lvl w:ilvl="0">
  <w:start w:val="4" />
  <w:lvlText w:val="%1)" />
  <w:lvlJc w:val="start~~left~~" />
```



```
  …
</w:lvl>
```

144. §17.9.6, "lvl (Numbering Level Override Definition)", pp. 782–783

```
<w:pPr>
  <w:ind w:start~~left~~="360" w:hanging="360" />
</w:pPr>

<w:pPr>
  <w:ind w:start~~left~~="360" w:hanging="360" />
</w:pPr>
```

145. §17.9.6, "lvl (Numbering Level Override Definition)", p. 783

```
<w:lvl w:ilvl="0">
  <w:start w:val="4" />
  <w:lvlText w:val="%1)" />
  <w:lvlJc w:val="start~~left~~" />
  …
</w:lvl>
```

146. §17.9.8, "lvlJc (Justification)", p. 788

```
<w:lvl w:ilvl="8" w:tplc="756C1446" w:tentative="1">
  <w:start w:val="1" />
  <w:numFmt w:val="bullet" />
  <w:lvlText w:val="•" />
  <w:lvlJc w:val="start~~left~~" />
…
</w:lvl>
```

147. §17.9.9, "lvlOverride (Numbering Level Definition Override)", p. 790

```
<w:lvl w:ilvl="0">
  <w:start w:val="4" />
  <w:lvlText w:val="%1)" />
  <w:lvlJc w:val="start~~left~~" />
  …
</w:lvl>
…
<w:lvl w:ilvl="1">
  <w:start w:val="5" />
  <w:lvlText w:val="%Test)" />
  <w:lvlJc w:val="start~~left~~" />
```

```
    …
  </w:lvl>
```

148. §17.9.9, "lvlOverride (Numbering Level Definition Override)", pp. 790–791

```
  <w:pPr>
    <w:ind w:start~~left~~="360" w:hanging="360" />
  </w:pPr>
  …
  <w:pPr>
    <w:ind w:start~~left~~="360" w:hanging="360" />
  </w:pPr>

  <w:pPr>
    <w:ind w:start~~left~~="360" w:hanging="360" />
  </w:pPr>
```

149. §17.9.9, "lvlOverride (Numbering Level Definition Override)", p. 791

```
  <w:lvl w:ilvl="0">
    <w:start w:val="4" />
    <w:lvlText w:val="%1)" />
    <w:lvlJc w:val="start~~left~~" />
    …
  </w:lvl>
```

150. §17.9.9, "lvlOverride (Numbering Level Definition Override)", pp. 791–792, attribute ilvl

```
  <w:pPr>
    <w:ind w:start~~left~~="360" />
  </w:pPr>
```

151. §17.9.11, "lvlRestart (Restart Numbering Level Symbol)", pp. 793-794

```
  <w:lvl w:ilvl="0">
    <w:start w:val="1" />
    <w:lvlText w:val="%1)" />
    <w:lvlJc w:val="start~~left~~" />
    …
  </w:lvl>
  <w:lvl w:ilvl="1">
    <w:start w:val="1" />
    <w:numFmt w:val="upperLetter" />
```

```
    <w:lvlText w:val="%2)" />
    <w:lvlJc w:val="startleft" />
  </w:lvl>
  <w:lvl w:ilvl="2">
    <w:start w:val="1" />
    <w:numFmt w:val="lowerRoman" />
    <w:lvlRestart w:val="0">
    <w:lvlText w:val="%3)" />
    <w:lvlJc w:val="startleft" />
    …
  </w:lvl>
```

152. §17.9.11, "lvlRestart (Restart Numbering Level Symbol)", pp. 793–794

```
<w:pPr>
  <w:ind w:startleft="360" w:hanging="360" />
</w:pPr>
…
<w:pPr>
  <w:ind w:startleft="720" w:hanging="360" />
</w:pPr>
…
<w:pPr>
  <w:ind w:startleft="1080" w:hanging="360" />
</w:pPr>
```

153. §17.9.14, "name (Abstract Numbering Definition Name)", p. 799, attribute val

Attributes	Description

val (String Value)	…
	
	[*Example*: Consider the following WordprocessingML fragment:
	
	`<w:pPr>`
	`  <w:pStyle w:val="Heading1heading1" />`
	`</w:pPr>`
	
	…

154. §17.9.16, "num (Numbering Definition Instance)", p. 802

```
<w:pPr>
  <w:ind w:startleft="360" w:hanging="360" />
</w:pPr>
```

155. §17.9.18, "num (Numbering Definition Instance)", p. 802

```
<w:lvl w:ilvl="0">
  <w:start w:val="4" />
  <w:lvlText w:val="%1)" />
  <w:lvlJc w:val="startleft" />
  …
</w:lvl>
```

156. §17.9.18, "numFmt (Numbering Format)", p. 804

```
<w:pPr>
  <w:ind w:startleft="1080" w:hanging="360" />
</w:pPr>
```

157. §17.9.18, "numFmt (Numbering Format)", p. 804

```
<w:lvl w:ilvl="2">
  <w:start w:val="1" />
  <w:numFmt w:val="lowerRoman" />
  <w:lvlRestart w:val="0" />
  <w:lvlText w:val="%3)" />
  <w:lvlJc w:val="startleft" />
  …
</w:lvl>
```

158. §17.9.18, "numFmt (Numbering Format)", p. 804

Attributes	Description
format (Custom Defined Number Format)	Specifies a custom number format using the syntax defined by the XSLT ~~1.0~~ format attribute. This format shall be used for all numbering in the parent object. …

159. §17.9.22, "numStyleLink (Numbering Style Reference)", p. 809, attribute val

Attributes	Description

val (String Value)	…
	
	[*Example*: Consider the following WordprocessingML fragment:
	
	`<w:pPr>`
	`  <w:pStyle w:val="Heading1~~heading1~~" />`
	`</w:pPr>`
	
	…

160. §17.9.23, "pPr (Numbering Level Associated Paragraph Properties)", p. 810

```
<w:pPr>
  <w:tabs>
    <w:tab w:val="num" w:pos="720" />
  </w:tabs>
  <w:ind w:start~~left~~="720" w:hanging="360" />
</w:pPr>
```

161. §17.9.24, "pStyle (Paragraph Style's Associated Numbering Level)", p. 812

```
<w:pPr>
  <w:tabs>
    <w:tab w:val="num" w:pos="720" />
  </w:tabs>
  <w:ind w:start~~left~~="720" w:hanging="360" />
</w:pPr>
```

162. §17.9.24, "pStyle (Paragraph Style's Associated Numbering Level)", p. 813, attribute val

Attributes	Description
val (String Value)	… [*Example*: Consider the following WordprocessingML fragment: <w:pPr> <w:pStyle w:val="Heading1~~heading1~~" /> </w:pPr> …

163. §17.9.28, "styleLink (Numbering Style Definition)", p. 819, attribute val

Attributes	Description
val (String Value)	… [*Example*: Consider the following WordprocessingML fragment: <w:pPr> <w:pStyle w:val="Heading1~~heading1~~" /> </w:pPr> …

164. §17.11.4, "endnotePr (Document-Wide Endnote Properties)", p. 845

```
<w:endnotePr>
  <w:pos w:val="sectEnd"/>
  <w:numFmt w:val="lowerRoman" />
  <w:pos w:val="sectEnd"/>
</w:endnotePr>
```

165. §17.11.6, "endnoteRef (Endnote Reference Mark)", p. 848

```
<w:r>
  <w:rPr>
    <w:rStyle w:val="EndnoteReference" />
  </w:rPr>
  <w:end~~foot~~noteRef />
</w:r>
```


166. §17.11.17, "numFmt (Endnote Numbering Format)", p. 866

Attributes	Description
format (Custom Defined Number Format)	Specifies a custom number format using the syntax defined by the XSLT ~~1.0~~ format attribute. This format shall be used for all numbering in the parent object. …

167. §17.11.18, "numFmt (Footnote Numbering Format)", p. 867

Attributes	Description
format (Custom Defined Number Format)	Specifies a custom number format using the syntax defined by the XSLT ~~1.0~~ format attribute. This format shall be used for all numbering in the parent object. …

168. §17.12.4, "description (Description for Entry)", p. 881, attribute val

Attributes	Description

val (String Value)	…
	
	[*Example*: Consider the following WordprocessingML fragment:
	
	`<w:pPr>`
	`  <w:pStyle w:val="Heading1~~heading1~~" />`
	`</w:pPr>`
	
	…

169. §17.12.9, "gallery (Gallery Associated With Entry)", p. 888

```
<w:category>
  <w:name w:val="Internal Memo Covers" />
  <w:gallery w:val="coverPg" />
  <w:name w:val="Internal Memo Covers" />
</w:category>
```

170. §17.12.12, "name (Category Associated With Entry)", p. 891

```
<w:category>
  <w:name w:val="Internal Memo Covers" />
  <w:gallery w:val="coverPg" />
  <w:name w:val="Internal Memo Covers" />
</w:category>
```

171. §17.12.12, "name (Category Associated With Entry)", p. 891, attribute val

Attributes	Description

val (String Value)	…
	
	[*Example*: Consider the following WordprocessingML fragment:
	
	`<w:pPr>`
	`  <w:pStyle w:val="Heading1~~heading1~~" />`
	`</w:pPr>`
	
	…

172. §17.12.14, "style (Associated Paragraph Style Name)", p. 894, attribute val

Attributes	Description

val (String Value)	…
	
	[*Example*: Consider the following WordprocessingML fragment:
	
	`<w:pPr>`
	`  <w:pStyle w:val="Heading1~~heading1~~" />`
	`</w:pPr>`
	
	…

173. §17.13.4.2, "comment (Comment Content)", p. 905, attribute initials

Change "… application. If there …" to "… application. If there …"

174. §17.13.4.2, "comment (Comment Content)", p. 905, attribute initials

[*Example*: Consider a comment represented using the following WordprocessingML fragment:

```
<w:comment w:id="1" w:initials="KB" w:author~~name~~="Krista Bendig">
  …
</w:comment>
```

The initials attribute specifies that the initials of the author of the current comment are KB, which can be used as desired. *end example*]

175. §17.13.5.13, "del (Deleted Math Control Character)", p. 949

[*Note*: The W3C XML Schema definition of this element's content model (CT_MathCtrlDel~~CT_RPrChange~~) is located in §A.1. *end note*]

176. §17.13.5.16, "ins (Inserted Math Control Character)", p. 957

[*Note*: The W3C XML Schema definition of this element's content model (CT_MathCtrlIns~~CT_RPrChange~~) is located in §A.1. *end note*]

177. §17.13.5.34, "tblPrChange (Revision Information for Table Properties)", p. 1014

```
<w:tblPr>
  …
  <w:tblLook ~~w:val="04A0"~~w:firstRow="true" w:firstColumn="true"
      w:noVBand="true"/>
  <w:tblPrChange w:id="0" w:author="Tristan Davis" w:date="2006-06-
01T13:39:00Z">
    <w:tblPr>
      …
      <w:tblLook ~~w:val="04A0"~~w:firstRow="true" w:firstColumn="true"
      w:noVBand="true"/>
    </w:tblPr>
  </w:tblPrChange>
</w:tblPr>
```

178. §17.13.5.36, "tcPrChange (Revision Information for Table Cell Properties)", p. 1018

```
<w:tcPr>
  <w:cnfStyle ~~w:val="001000000000"~~w:firstColumn="true"/>
  <w:tcW w:w="3192" w:type="dxa"/>
  <w:tcPrChange w:id="8" w:author="Tristan Davis" w:date="2006-06-01T13:39:00Z">
    <w:tcPr>
      <w:tcW w:w="3192" w:type="dxa"/>
    </w:tcPr>
  </w:tcPrChange>
</w:tcPr>
```

179. §17.14.3, "addressFieldName (Column Containing E-mail Address)", p. 1050, attribute val

Attributes	Description

val (String Value)	…
	
	[*Example*: Consider the following WordprocessingML fragment:
	
	`<w:pPr>`
	`  <w:pStyle w:val="Heading1~~heading1~~" />`
	`</w:pPr>`
	
	…

180. §17.14.8, "connectString (Data Source Connection String)", p. 1056, attribute val

Attributes	Description

val (String Value)	…
	
	[*Example*: Consider the following WordprocessingML fragment:
	
	`<w:pPr>`
	`  <w:pStyle w:val="Heading1~~heading1~~" />`
	`</w:pPr>`
	
	…

181. §17.14.21, "mailSubject (Merged E-mail or Fax Subject Line)", p. 1070, attribute val

Attributes	Description

val (String Value)	…
	
	[*Example*: Consider the following WordprocessingML fragment:
	
	`<w:pPr>`
	`  <w:pStyle w:val="Heading1~~heading1~~" />`
	`</w:pPr>`
	
	…

182. §17.14.23, "mappedName (Predefined Merge Field Name)", p. 1072

```
<w:fieldMapData>
  <w:column w:val="0" />
  <w:name w:val="Column Name A" />
  <w:mappedName w:val="First Name" />
  <w:column w:val="0" />
…
</w:fieldMapData>
<w:fieldMapData>
  <w:column w:val="1" />
  <w:name w:val="Column Name B" />
  <w:mappedName w:val="Last Name" />
  <w:column w:val="1" />
  …
</w:fieldMapData>
```

183. §17.14.23, "mappedName (Predefined Merge Field Name)", p. 1073, attribute val

Attributes	Description
val (String Value)	… [*Example*: Consider the following WordprocessingML fragment: <w:pPr> <w:pStyle w:val="Heading1heading1" /> </w:pPr> …

184. §17.14.24, "name (Data Source Name for Column)", p. 1074, attribute val

Attributes	Description
val (String Value)	… [*Example*: Consider the following WordprocessingML fragment: <w:pPr> <w:pStyle w:val="Heading1heading1" /> </w:pPr> …

185. §17.14.26, "query (Query For Data Source Records To Merge)", p. 1077, attribute val

Attributes	Description

val (String Value)	…
	
	[*Example*: Consider the following WordprocessingML fragment:
	
	`<w:pPr>`
	`  <w:pStyle w:val="Heading1~~heading1~~" />`
	`</w:pPr>`
	
	…

186. §17.14.31, "table (Data Source Table Name)", p. 1084, attribute val

Attributes	Description

val (String Value)	…
	
	[*Example*: Consider the following WordprocessingML fragment:
	
	`<w:pPr>`
	`  <w:pStyle w:val="Heading1~~heading1~~" />`
	`</w:pPr>`
	
	…

187. §17.14.34, "udl (UDL Connection String)", p. 1088, attribute val

Attributes	Description

val (String Value)	…
	
	[*Example*: Consider the following WordprocessingML fragment:
	
	`<w:pPr>`
	`  <w:pStyle w:val="Heading1~~heading1~~" />`
	`</w:pPr>`
	
	…

188. §17.15.1.1, "activeWritingStyle (Grammar Checking Settings)", p. 1091

[*Example*: Consider the following WordprocessingML fragment from the document settings:

```
<w:activeWritingStyle w:lang="en-CA" w:vendorID="64" w:dllVersion="131078"
w:nlCheck="1" w:checkStyle="0" w:appName="testApp" />
```


The activeWritingStyle element's lang attribute specifies that the English (Canada) language setting for grammatical and stylistic checks must be applied; the vendorID attribute specifies information about the vendor associated with the DLL used to perform the grammatical and stylistic checks; the dllVersion attribute specifies the version of this DLL; the nlCheck attribute specifies if natural language checks were performed or not; ~~and~~ the checkStyle attribute specifies that the hosting application should allow its grammar engine to check both the grammar and style of the given WordprocessingML document, if that functionality is available; and the appName attribute indicates that an application called `testApp` specified the grammar checking rules of the given WordprocessingML. *end example*]

189. §17.15.1.5, "attachedSchema (Attached Custom XML Schema)", p. 1096, attribute val

Attributes	Description

val (String Value)	…
	
	[*Example*: Consider the following WordprocessingML fragment:
	
	`<w:pPr>`
	`  <w:pStyle w:val="Heading1~~heading1~~" />`
	`</w:pPr>`
	
	…

190. §17.15.1.7, "autoCaption (Single Automatic Captioning Setting)", p. 1098

```
<w:captions>
  <w:caption w:name="Table" w:pos="below" w:chapNum="1" w:heading="2"
    w:numFmt="upperLetter" w:sep="hyphen~~8212~~" />
  <w:autoCaptions>
    <w:autoCaption w:name="wfwTable" w:caption="Table" />
  </w:autoCaptions>
</w:captions>
```

191. §17.15.1.8, "autoCaptions (Automatic Captioning Settings)", p. 1101

```
<w:captions>
  <w:caption w:name="Table" w:pos="below" w:chapNum="1" w:heading="2"
    w:numFmt="upperLetter" w:sep="hyphen~~8212~~" />
  <w:autoCaptions>
    <w:autoCaption w:name="wfwTable" w:caption="Table" />
  </w:autoCaptions>
</w:captions>
```

192. §17.15.1.11, "bookFoldPrinting (Book Fold Printing)", p. 1104

```
<w:pgMar w:header="0" w:top="1440" w:right="1440" w:bottom="1440" w:left="2160"
  w:footer="720" w:gutter="0" />
```

193. §17.15.1.13, "bookFoldRevPrinting (Reverse Book Fold Printing)", p. 1108

```
<w:pgMar w:header="0" w:top="1440" w:right="1440" w:bottom="1440" w:left="2160"
  w:footer="720" w:gutter="0" />
```

194. §17.15.1.16, "caption (Single Caption Type Definition)", p. 1114, attribute chapNum

```
<w:caption w:name="Table" w:pos="below" w:chapNum="true"
w:heading="2" w:numFmt="upperLetter" w:sep="hyphen~~8212~~" />
```

195. §17.15.1.16, "caption (Single Caption Type Definition)", p. 1115, attribute heading

```
<w:caption w:name="Table" w:pos="below" w:chapNum="1"
w:heading="2" w:numFmt="upperLetter" w:sep="hyphen~~8212~~" />
```

In other words, the WordprocessingML above can be used to label tables inserted in a given WordprocessingML document generated by an application with a caption consisting of: the string `Table` followed by a decimal number corresponding with the chapter number in which the table is present, a hyphen~~dash~~ as defined in the sep attribute, and a capital English letter defined by the numFmt attribute corresponding with the given table's ordering within the current chapter. *end example*]

196. §17.15.1.18, "captions (Caption Settings)", p. 1122

```
<w:caption w:name="Table" w:pos="below" w:chapNum="1" w:heading="2"
w:numFmt="upperLetter" w:sep="hyphen~~8212~~" />
```


197. §17.15.1.19, "clickAndTypeStyle (Paragraph Style Applied to Automatically Generated Paragraphs)", p. 1125, attribute val

Attributes	Description

val (String Value)	…
	
	[*Example*: Consider the following WordprocessingML fragment:
	
	`<w:pPr>`
	`  <w:pStyle w:val="Heading1~~heading1~~" />`
	`</w:pPr>`
	
	…

198. §17.15.1.23, "decimalSymbol (Radix Point for Field Code Evaluation)", p. 1133, attribute val

Attributes	Description

val (String Value)	…
	
	[*Example*: Consider the following WordprocessingML fragment:
	
	`<w:pPr>`
	`  <w:pStyle w:val="Heading1~~heading1~~" />`
	`</w:pPr>`
	
	…

199. §17.15.1.24, "defaultTableStyle (Default Table Style for Newly Inserted Tables)", p. 1134, attribute val

Attributes	Description

val (String Value)	…
	
	[*Example*: Consider the following WordprocessingML fragment:
	
	`<w:pPr>`
	`  <w:pStyle w:val="Heading1~~heading1~~" />`
	`</w:pPr>`
	
	…

200. §17.15.1.29, "documentProtection (Document Editing Restrictions)", p. 1144

```
<w:style w:type="paragraph" w:styleId="Heading1">
  <w:name w:val="hHeading 1" />
  <w:locked w:val="1" />
  …
</w:style>
```

201. §17.15.1.44, "drawingGridHorizontalOrigin (Drawing Grid Horizontal Origin Point)", p. 1158

```
<w:settings>
  …
  <w:donNotUuseMarginsForDrawingGridOrigin w:val="true" />
  <w:drawingGridHorizontalOrigin w:val="4320" />
  …
</w:settings>
```

The drawingGridHorizontalOrigin element's val attribute is equal to 4320 specifying that the horizontal edge of the document's drawing grid must begin three inches (4320 twentieths of a point) from the left edge of the page, since the donNotUseMarginsForDrawingGridOrigin element's val attribute is equal to true. *end example*]

202. §17.15.1.46, "drawingGridVerticalOrigin (Drawing Grid Vertical Origin Point)", p. 1160

[*Example*: Consider a WordprocessingML document whose drawing grid must begin one inch (1440 twentieths of a point) before the top edge of the page. This requirement would be specified using the following WordprocessingML markup in the document settings:

```
<w:settings>
  …
  <w:donNottuUseMarginsForDrawingGridOrigin w:val="true" />
  <w:drawingGridVerticallOrigin w:val="1440" />
  …
</w:settings>
```

The drawingGridVerticalOrigin element's val attribute is equal to 1440 specifying that the vertical edge of the document's drawing grid must begin one inch (1440 twentieths of a point) from the top edge of the page, since the donNotUseMarginsForDrawingGridOrigin element's val attribute is equal to true. *end example*]

203. §17.15.1.54, "ignoreMixedContent (Ignore Mixed Content When Validating Custom XML Markup)", p. 1168

~~[*Example*: Consider a WordprocessingML document which should not have its custom XML content validated even by applications which support this operation. This requirement is specified using the following WordprocessingML in the document settings:~~

```
<w:doNotValidateAgainstSchema w:val="true" />
```

~~The doNotValidateAgainstSchema element's val attribute has a value of true specifying that the custom XML markup in this document must not be validated. *end example*]~~

[*Example*: Consider a WordprocessingML document that contains the following markup:

```
<w:customXml w:element="invoice" w:uri="http://www.example.com/invoice">
  <w:p>
    <w:r>
      <w:t>Invoice #:</w:t>
    </w:r>
    <w:customXml w:element="id" w:uri="http://www.example.com/invoice">
      <w:r>
        <w:t>012345</w:t>
      </w:r>
    </w:customXml>
  </w:p>
  <w:p>
    <w:r>
      <w:t>Invoice Date:</w:t>
    </w:r>
    <w:customXml w:element="date" w:uri="http://www.example.com/invoice">
      <w:r>
        <w:t>01/29/2009</w:t>
      </w:r>
    </w:customXml>
  </w:p>
</w:customXml>
```

If all the custom markup is extracted from the document, that markup would include all content in the document, i.e.:

```
<invoice xmlns="http://www.example.com/invoice">
  Invoice #:
  <id>012345</id>
  Invoice Date
  <date>01/29/2009</date>
</invoice>
```

The content shown above is formatted for readability. In fact, there is no such space in the XML.

However, if the ignoreMixedContent element is present with a val attribute value of `true` (or equivalent) then an application should ignore all text nodes in elements with mixed content, i.e.:

```
<invoice xmlns="http://www.example.com/invoice">
  <id>012345</id>
  <date>01/29/2009</date>
</invoice>
```

end example]

204. §17.15.1.56, "listSeparator (List Separator for Field Code Evaluation)", p. 1169, attribute val

Attributes	Description

val (String Value)	…
	
	[*Example*: Consider the following WordprocessingML fragment:
	
	`<w:pPr>`
	`  <w:pStyle w:val="Heading1~~heading1~~" />`
	`</w:pPr>`
	
	…

205. §17.15.1.57, "mirrorMargins (Mirror Page Margins)", p. 1170

This element specifies that the left and right margins defined in the section properties shall be swapped on facing pages. [*Note*: Page numbering can be set arbitrarily, so the flip might not always be on the even-numbered pages. *end note*]

206. §17.15.1.64, "printTwoOnOne (Print Two Pages Per Sheet)", p. 1177

```
<w:pgMar w:header="0" w:top="2160" w:right="1440" w:bottom="1440" w:left="1440"
  w:footer="720" w:gutter="0" />
```


207. §17.15.1.74, "saveInvalidXml (Allow Saving Document As XML File When Custom XML Markup Is Invalid)", p. 1191

This element specifies that this document should be capable of being saved into a format consisting of a single XML file (not defined by ISO/IEC 29500) even when its contents are invalid based XML schema validation of the custom XML markup contained in the document.

208. §17.15.1.77, "saveXmlDataOnly (Only Save Custom XML Markup)", p. 1194

[*Example*: …

```
<w:body>
  <w:p>
    <w:customXml w:element="root" w:namespaceuri="urn:example">
      <w:r>
        <w:t>Hello, world</w:t>
      </w:r>
    </w:customXml>
  </w:p>
</w:body>
```

The presence of this element specifies that the resulting document only contains the custom Xml markup, resulting in the following:

```
<ns0:root xmlns:ns0="urn:example">Hello, world</ns0:root>
```

end example]

209. §17.15.1.77, "saveXmlDataOnly (Only Save Custom XML Markup)", p. 1194

```
<w:customXml w:element="root" w:namespaceuri="urn:example">
  <w:r>
    <w:t>Hello world</w:t>
  </w:r>
</w:customXml>
```

210. §17.15.1.93, "writeProtection (Write Protection)", p. 1213

[*Example*: Consider a WordprocessingML document that can be opened but only in a write protected state unless a password is provided, in which case the file would be opened in an editable state. This requirement would be specified using the following WordprocessingML in the document settings:

```
<w:writeProtection w:hashValue="9oN7nWkCAyEZib1RomSJTjmPpCY=" />
```

If the attributes specified in the password attribute group AG_Password are present, then the application shall require a password to exit write protection. If the hash value derived from supplied password does not match the hash value in the attribute hashValue, then write protection shall be enabled.~~The writeProtection element is present which specifies that write protection must be turned on for this document. Since the password attribute is equal to 9oN7nWkCAyEZib1RomSJTjmPpCY= the given WordprocessingML document can only be opened in a write protected state unless a password which matches the hash value 9oN7nWkCAyEZib1RomSJTjmPpCY=is provided; in which case the file would be opened in an editable state.~~ *end example*]

211. §17.15.2, "Web Page Settings", p. 1219

[*Example*: Consider the following WordprocessingML fragment for the web page settings in a WordprocessingML document:

…

The webSettings element contains all of the web page settings for this document. In this case, the web page settings specified for this document are: a frameset defined using the frameset element (§17.15.2.19); and a setting specifying that when this file is saved as a web page, all resulting files must not exceed 8~~.3 characters~~octets ~~in length~~ with 3 octet extension using the doNotUseLongFileNames element (§17.15.2.13). *end example*]

212. §17.15.2.13, "doNotUseLongFileNames", p. 1237

This element specifies that applications shall ensure that the file names for all files generated when saving this document as a web page do not exceed eight ~~characters~~octets with a three ~~character~~octet extension. This includes all supporting files (images which are part of this HTML web page, etc.). The file names generated are not case-sensitive.

[*Example*: Consider a WordprocessingML document which contains the following content within the web settings part:

…

The doNotUseLongFileNames element specifies that applications should ensure that all file names generated when this document is subsequently saved as a web page do not exceed the 8.3 ~~character~~octet file name limitation. *end example*]

213. §17.15.2.14, "encoding (Output Encoding When Saving as Web Page)", p. 1239, attribute val

Attributes	Description
val (String Value)	… [*Example*: Consider the following WordprocessingML fragment: <w:pPr> <w:pStyle w:val="Heading1~~heading1~~" /> </w:pPr> …

214. §17.15.2.17, "frameLayout (Frameset Layout)", p. 1244, attribute val

```
<w:frameset>
  <w:frameLayout w:val="cols" />
  …
</w:frameset>
```

215. §17.15.2.30, "name (Frame Name)", p. 1265, attribute val

Attributes	Description
val (String Value)	… [*Example*: Consider the following WordprocessingML fragment: <w:pPr> <w:pStyle w:val="Heading1~~heading1~~" /> </w:pPr> …

216. §17.15.2.40, "sz (Frame Size)", p. 1280, attribute val

Attributes	Description
val (String Value)	… [*Example*: Consider the following WordprocessingML fragment: <w:pPr> <w:pStyle w:val="Heading1~~heading1~~" /> </w:pPr> …

217. §17.15.2.41, "sz (Nested Frameset Size)", p. 1281, attribute val

Attributes	Description

val (String Value)	…
	
	[*Example*: Consider the following WordprocessingML fragment:
	
	`<w:pPr>`
	`  <w:pStyle w:val="Heading1~~heading1~~" />`
	`</w:pPr>`
	
	…

218. §17.15.2.43, "title (Frame or Frameset Title)", p. 1284, attribute val

Attributes	Description

val (String Value)	…
	
	[*Example*: Consider the following WordprocessingML fragment:
	
	`<w:pPr>`
	`  <w:pStyle w:val="Heading1~~heading1~~" />`
	`</w:pPr>`
	
	…

219. §17.15.2.46, "webSettings (Web Page Settings)", p. 1288

[*Example*: Consider the following WordprocessingML fragment for the web page settings in a WordprocessingML document:

…

The webSettings element contains all of the web page settings for this document. In this case, the web page settings specified for this document are: a frameset defined using the frameset element (§17.15.2.19); and a setting specifying that when this file is saved as a web page, all resulting files must not exceed 8.3 ~~characters~~octets ~~in length~~ with 3 octet extension using the doNotUseLongFileNames element (§17.15.2.13). *end example*]

220. §17.16.1, "Syntax", p. 1301

numbering=~~<blank line>~~"LISTNUM", [field-argument] | …

221. §17.16.1, "Syntax", p. 1303

```
double-quote=
'␣"␣' ; (* one double-quote character *)
```

222. §17.16.1, "Syntax", p. 1304

```
letter=
"a"|"b"|"c"|"d"|"e"|"f"|"g"|"h"|"i"|"j"|"k"|"l"|"m"|
"n"|"o"|"p"|"q"|"r"|"s"|"t"|"u"|"v"|"w"|"x"|"y"|"z"|
"a"|"b"|"c"|"d"|"e"|"f"|"g"|"h"|"i"|"j"|"k"|"l"|"m"|
"A"|"B"|"C"|"D"|"E"|"F"|"G"|"H"|"I"|"J"|"K"|"L"|"M"|
"n"|"o"|"p"|"q"|"r"|"s"|"t"|"u"|"v"|"w"|"x"|"y"|"z" ;
"N"|"O"|"P"|"Q"|"R"|"S"|"T"|"U"|"V"|"W"|"X"|"Y"|"Z" ;
```

223. §17.16.5, "Field definitions", p. 1341, category User Information

Change "… a user␣account under which the document is manipulated. ␣[*Note*: These …" to a user account under which the document is manipulated. [*Note*: These …"

224. §17.16.5.1, "ADDRESSBLOCK", p. 1342, switch \d

Change "… the recipient␣as defined …" to "… the recipient as defined …"

225. §17.16.5.1, "ADDRESSBLOCK", p. 1342, switch \f

Change "… placeholders␣in the …" to "… placeholders in the …"

226. §17.16.5.1, "ADDRESSBLOCK", p. 1343, switch \l

Change "… document.␣This language …" to "… document. This language …"

227. §17.16.5.13, "DATE", p. 1353, switch \l

\l	When a field update is performed, if no *date-and-time-formatting-switch* is used, this switch is an instruction specifying that the field shall use the *date-and-time-formatting-switch* last used by the hosting application when inserting a new DATE field. If there is no last-used date format available, then the *date-and-time-formatting-switch* used is implementation-defined.

228. §17.16.5.18, "FILESIZE", p. 1358

\k	Round to the nearest thousand bytes~~kilobyte~~.
\m	Round to the nearest million bytes~~megabyte~~.

229. §17.16.5.33, "LISTNUM", p. 1369

Description: … specific level …

230. §17.16.5.49, "QUOTE", p. 1382

Description: Retrieves the text specified by *text* in *field-argument*. This text can include any other fields except ~~AUTONUM, AUTONUMLGL, AUTONUMOUT, and~~ SYMBOL.

231. §17.16.10, "default (Default Text Box Form Field String)", p. 1406, attribute val

Attributes	Description

val (String Value)	…
	
	[*Example*: Consider the following WordprocessingML fragment:
	
	`<w:pPr>`
	`  <w:pStyle w:val="Heading1~~heading1~~" />`
	`</w:pPr>`
	
	…

232. §17.16.17, "ffData (Form Field Properties)", p. 1413

[*Example*: Consider the following WordprocessingML fragment for a text box form field:

…

The ffData element specifies the set of properties for this text box form field; in this example, a form field name of TestTextBox via the name element (§17.16.27), a disabled state via the enabled element (§17.16.14), and a maximum character length of 10 Unicode scalar values~~characters~~ via the maxLength element (§17.16.26). *end example*]

233. §17.16.18, "fldChar (Complex Field Character)", p. 1415

```
<w:body>
  <w:p>
    <w:r>
      <w:fldChar w:fldCharType="begin~~start~~" />
    </w:r>
  …
</w:body>
```


234. §17.16.18, "fldChar (Complex Field Character)", p. 1416, attribute dirty

```
<w:r>
  <w:fldChar w:fldCharType="beginstart" w:dirty="true"/>
</w:r>
```

235. §17.16.18, "fldChar (Complex Field Character)", p. 1417, attribute fldLock

```
<w:r>
  <w:fldChar w:fldCharType="beginstart" w:fldLock="true"/>
</w:r>
```

236. §17.16.19, "fldSimple, Simple Field", p. 1418

Parent Elements
bdo (§17.3.2.3); customXml (§17.5.1.3); deg (§22.1.2.26); den (§22.1.2.28); dir (§17.3.2.8); e (§22.1.2.32); fldSimple (§17.16.19); fName (§22.1.2.37); hyperlink (§17.16.22); lim (§22.1.2.52); num (§22.1.2.75); oMath (§22.1.2.77); p (§17.3.1.22); sdtContent (§17.5.2.36); smartTag (§17.5.1.9); sub (§22.1.2.112); sup (§22.1.2.114)

237. §17.16.20, "format (Text Box Form Field Formatting)", p. 1421, attribute val

Attributes	Description

val (String Value)	…
	
	[*Example*: Consider the following WordprocessingML fragment:
	
	`<w:pPr>`
	`  <w:pStyle w:val="Heading1heading1" />`
	`</w:pPr>`
	
	…

238. §17.16.22, "hyperlink, Hyperlink", p. 1424

Parent Elements
bdo (§17.3.2.3); customXml (§17.5.1.3); deg (§22.1.2.26); den (§22.1.2.28); dir (§17.3.2.8); e (§22.1.2.32); fldSimple (§17.16.19); fName (§22.1.2.37); hyperlink (§17.16.22); lim (§22.1.2.52); num (§22.1.2.75); oMath (§22.1.2.77); p (§17.3.1.22); sdtContent (§17.5.2.36); smartTag (§17.5.1.9); sub (§22.1.2.112); sup (§22.1.2.114)

239. §17.16.25, "listEntry (Drop-Down List Entry)", p. 1432, attribute val

Attributes	Description

val (String Value)	…
	
	[*Example*: Consider the following WordprocessingML fragment:
	
	`<w:pPr>`
	`  <w:pStyle w:val="Heading1~~heading1~~" />`
	`</w:pPr>`
	
	…

240. §17.18.3, "ST_BrClear (Line Break Text Wrapping Restart Location)", pp. 1508–1509

Enumeration Value	Description
left (Restart In Next Text Region Left to Right)	Specifies that the text wrapping break shall behave as follows when this line intersects a floating object: If the parent paragraph is left-to-right: • … • Otherwise, treat this as a text wrapping break of ~~style~~type none. If the parent paragraph is right to left: If the object occurs to the left of the break, treat this as a break of ~~style~~type `all`. • Otherwise, treat this as a text wrapping break of type none. In either case, if this line does not intersect a floating object, then treat this break as a text wrapping break of ~~style~~type none.

Enumeration Value	Description

right (Restart In Next Text Region Right to Left)	Specifies that the text wrapping break shall behave as follows when this line intersects a floating object:
	
	If the parent paragraph is left-to-right:
	• If the object occurs to the right of the break, treat this as a break of ~~style~~type `all`.
	• Otherwise, treat this as a text wrapping break of ~~style~~type none.
	If the parent paragraph is right to left:
	• If this is the rightmost region of text flow currently on this line,
	  • If a floating object occurs to the right of the break, treat this as a break of ~~style~~type `all`.
	  • Otherwise, advance the text to the next position on the line where text can be displayed
	• Otherwise, treat this as a text wrapping break of ~~style~~type none.
	
	In either case, if this line does not intersect a floating object, then treat this break as a text wrapping break of ~~style~~type none.
	If the parent paragraph is right to left, then these behaviors are also reversed.
	
	…

241. §17.18.3, "ST_BrClear (Line Break Text Wrapping Restart Location)", p. 1509

Enumeration Value	Description
right (Restart In Next Text Region Right to Left)	… In either case, if this line does not intersect a floating object, then treat this break as a text wrapping break of style none. ~~If the parent paragraph is right to left, then these behaviors are also reversed.~~ ~~[*Note*: This break type is used to control the text wrapping on the right side of a floating image without preventing text from appearing on the opposite side. *end note*]~~

242. §17.18.14, "ST_DocGrid (Document Grid Types)", p. 1520

[*Example*: Consider the document discussed above with the document grid defined to allow 20 characters per line, and 20 lines per page by snapping characters to the grid as follows:

…

This document has a type attribute of type ST_DocGrid and value ~~snapTOCars~~`snapToChars`, which specifies that the grid must force East Asian characters to fit 20 to a line. *end example*]

243. §17.18.14, "ST_DocGrid (Document Grid Types)", p. 1521, enumeration snapTOCars

Enumeration Value	Description
~~snapTOCars~~snapToChars (Character Grid Only)	…

244. §17.18.16, "ST_DocPartGallery (Entry Gallery Types)", p. 1523

```
<w:category>
  <w:name w:val="Internal Memo Covers" />
  <w:gallery w:val="coverPg" />
  <w:name w:val="Internal Memo Covers" />
</w:category>
```

245. §17.18.25, "ST_FFHelpTextVal", p. 1534

This simple type also specifies the following restrictions:

- This simple type's contents have a maximum length of 256 Unicode scalar values~~characters~~.

246. §17.18.26, ST_FFName, p. 1535

This simple type also specifies the following restrictions:

- This simple type's contents have a maximum length of 65 Unicode scalar values~~characters~~.

247. §17.18.44, "ST_Jc (Horizontal Alignment Type)", p. 1554

[*Example*: … The val attribute's value of ~~right~~end specifies that the content must be right-aligned on the page for a left-to-right paragraph, and left-justfied for a right-to-left paragraph. *end example*]

248. §17.18.51, "ST_MacroName", p. 1563

This simple type also specifies the following restrictions:

- This simple type's contents have a maximum length of 33 Unicode scalar values~~characters~~.

249. §17.18.57, "ST_Merge (Merged Cell Type)", pp. 1569–1570

```
<w:tc>
  <w:tcPr>
    <w:vMmerge w:val="restart"/>
  </w:tcPr>
  …
</w:tc>
…
<w:tc>
  <w:tcPr>
    <w:vMmerge w:val="continue"/>
  </w:tcPr>
  …
</w:tc>
…
<w:tc>
  <w:tcPr>
    <w:vMmerge w:val="continue"/>
  </w:tcPr>
  …
</w:tc>
```

The val attribute of type ST_Merge on the vMmerge element defines the cells thatwhich are vertically merged, and how each cell is merged together. *end example*]

250. §17.18.59, "ST_NumberFormat (Numbering Format)", p. 1574, enumeration value arabicAlpha

Change "… alphabet_from the …" to "… alphabet from the …"

251. §17.18.59, "ST_NumberFormat (Numbering Format)", p. 1584, enumeration value decimalFullWidth2

Enumeration Value	Description
~~decimalFullWidth2 (Full Width Arabic Numerals Alternate)~~	~~Specifies that the sequence shall consist of a set of full-width Arabic numbering.~~ ~~To determine the text that is displayed for any value, this sequence specifies a set of characters that represent positions 1–9 and then those same characters are combined with each other and 0 (represents the number zero) to construct the remaining values.~~ ~~The set of characters used by this numbering format for values 0–9 is U+FF10–U+FF19, respectively.~~ ~~For values greater than the size of the set, the number is constructed by following these steps:~~ ~~1. Divide the value by 10 and write the symbol which represents the remainder.~~ ~~2. Divide the quotient of the previous division by 10 and write the symbol, which represents the remainder, to the left of the existing position.~~ ~~3. Repeat step 2 until the remaining value is equal to zero.~~ ~~[*Example*: The numbering for the items should be represented by the following pattern: 1, 2, 3, …, 8, 9, 10, 11, 12, …, 18, 19, 20, 21, … *end example*]~~

252. §17.18.59, "ST_NumberFormat (Numbering Format)", p. 1587, enumeration value hebrew1

Change "_To determine …" to "To determine …"

253. §17.18.59, "ST_NumberFormat (Numbering Format)", p. 1590, enumeration value hindiConsonants

Change "… consonant_from …" to "… consonant from …"

254. §17.18.59, "ST_NumberFormat (Numbering Format)", p. 1591, enumeration value hindiNumbers

Change "… number_from …" to "… number from …"

255. §17.18.59, "ST_NumberFormat (Numbering Format)", p. 1592, enumeration value hindiVowels

Change "… vowel_from …" to "… vowel from …"

256. §17.18.59, "ST_NumberFormat (Numbering Format)", p. 1613, enumeration value thaiLetters

Change "… letter_ from …" to "… letter from …"

257. §17.18.78, "ST_Shd (Shading Patterns)", p. 1633

This simple type specifies the pattern thatwhich shall be used to lay the pattern color over the background color for a shading.

This pattern consists of a mask thatwhich is applied over the background shading color to get the locations where the pattern color should be shown. Each of these possible masks are is shown in the enumeration values located below. In each example, an 8 pixel by 8 pixel mask is displayed where black has been used as the fill color (the parent element's fill attribute), and white has been used as the pattern color (the parent element's color attribute). When the shading is applied, the mask is tiled as necessary to match the size of the shaded area.

258. §17.18.84, "ST_TabJc (Custom Tab Stop Type)", p. 1651

```
<w:tab w:val="startleft" w:pos="2160" />
```

259. §17.18.93, "ST_TextDirection (Text Flow Direction)", p. 1665

[*Example*: Consider an object in which text must be oriented vertically, flowing from left to right horizontally on the page. flow bottom to top vertically, and left to right horizontally. Thise is achieved by using an lrbtLr value in an element of type ST_TextDirection specifies that the text flow must go bottom to top, and left to right. *end example*]

260. §17.18.93, "ST_TextDirection (Text Flow Direction)", p. 1665

Attributes	Description
lrV (Lines Flow From Left to Right Rotated)	Specifies that text in the parent object shall be oriented vertically, flowing from left to right horizontally on the page. This means that vertical lines are filled before the text expands horizontally. This flow is also rotated clockwise such that text which is not in an East Asian script is rotated 90 degrees when displayed on a page.

261. §17.18.93, "ST_TextDirection (Text Flow Direction)", p. 1666

Attributes	Description
rlV (Lines Flow From Right to Left Rotated)	Specifies that text in the parent object shall be oriented vertically, flowing from right to left horizontally on the page. This means that vertical lines are filled before the text expands horizontally. This flow is also rotated such that text which is not in an East Asian script is rotated 90 degrees counter clockwise when displayed on a page.

262. §17.18.98, "ST_UcharHexNumber (Two Digit Hexadecimal Value)", p. 1672

[*Example*: Consider the following value for a node of type ST_Uchar~~Long~~HexNumber: BE. … *end example*]

263. §18.2.3, "customWorkbookView (Custom Workbook View)", p. 1709–1710, attribute autoUpdate

Change "… that if_the …" to "… that if the …"

Change "… the_spreadsheet …" to "… the spreadsheet …"

264. §18.2.5, "definedName (Defined Name)", p. 1719, new attribute

Attributes	Description
xml:space (Content Contains Significant Whitespace) Namespace: http://www.w3.org/XML/1998/namespace	Specifies how white space should be handled for the contents of this element using the W3C space preservation rules. The possible values for this attribute are defined by §2.10 of the XML 1.0 specification.

265. §18.2.20, "sheets (Sheets)", p. 1733

```
<sheets>
  <sheet name="Sheet1" sheetId="1" r:id="rId1"/>
  <sheet name="Sheet2" sheetId="2" r:id="rId2"/>
  <sheet name="Sheet5" sheetId="3" r:id="rId3"/>
  <sheet name="Chart1" sheetId="4" type="chartsheet" r:id="rId4"/>
</sheets>
```

266. §18.2.24, "webPublishing", p. 1736

Attributes	Description
longFileNames (Enable Long File Names)	Specifies a boolean value that indicates whether the application allows file names longer than 8 ~~characters~~octets with a three octet extension for Web pages. File names are not case-sensitive. The possible values for this attribute are defined by the W3C XML Schema boolean datatype.

267. §18.2.27, "workbook (Workbook)", p. 1739

```
<sheets>
  <sheet name="Sheet1" sheetId="1" r:id="rId1"/>
  <sheet name="Sheet2" sheetId="2" r:id="rId2"/>
  <sheet name="Sheet5" sheetId="3" r:id="rId3"/>
  <sheet name="Chart1" sheetId="4" ~~type="chartsheet"~~ r:id="rId4"/>
</sheets>
```

268. §18.3.1.2, "autoFilter (AutoFilter Settings)", p. 1758

[*Example*: … The filter is being applied to the range B3:E8, and the criteria is being applied to values in the column whose ~~colId='1'~~ colId is 1 (zero based column numbering, from left to right). …

269. §18.3.1.3, "brk (Break)", p. 1759, attribute man

Attributes	Description
man (Manual Page Break)	Manual Break flag. ~~'~~1~~'~~ means the break is a manually inserted break. …

270. §18.3.1.10, "cfRule (Conditional Formatting Rule)", pp. 1765–1766, various attributes

Attributes	Description
aboveAverage (Above Or Below Average)	Indicates whether the rule is an "above average" rule. ~~'~~1~~'~~ indicates 'above average'. This attribute is ignored if type is not equal to aboveAverage. …
bottom (Bottom N)	Indicates whether a "top/bottom n" rule is a "bottom n" rule. ~~'~~1~~'~~ indicates 'bottom'. This attribute is ignored if type is not equal to top10. …
equalAverage (Equal Average)	Flag indicating whether the 'aboveAverage' and 'belowAverage' criteria is inclusive of the average itself, or exclusive of that value. ~~'~~1~~'~~ indicates to include the average value in the criteria. This attribute is ignored if type is not equal to aboveAverage. …
priority (Priority)	The priority of this conditional formatting rule. This value is used to determine which format should be evaluated and rendered. Lower numeric values are higher priority than higher numeric values, where ~~'~~1~~'~~ is the highest priority. …
stopIfTrue (Stop If True)	If this flag is ~~'~~1~~'~~, no rules with lower priority shall be applied over this rule, when this rule evaluates to true. …

271. §18.3.1.11, "cfvo (Conditional Format Value Object)", p. 1768, attribute gte

Attributes	Description
gte (Greater Than Or Equal)	For icon sets, determines whether this threshold value uses the greater than or equal to operator. '0' indicates 'greater than' is used instead of 'greater than or equal to'. …

272. §18.3.1.25, "customSheetView (Custom Sheet View)", p. 1786

Attributes	Description
showAutoFilter (Show AutoFiltlter Drop Down Controls)	…

273. §18.3.1.29, "dataConsolidate (Data Consolidate)", p. 1790, new attribute

Attributes	Description
xml:space (Content Contains Significant Whitespace) Namespace: http://www.w3.org/XML/1998/namespace	Specifies how white space should be handled for the contents of this element using the W3C space preservation rules. The possible values for this attribute are defined by §2.10 of the XML 1.0 specification.

274. §18.3.1.32, "dataValidation (Data Validation)", p. 1791, attribute allowBlank

Attributes	Description
allowBlank (Allow Blank)	A boolean value indicating whether the data validation allows the use of empty or blank entries. '1' means empty entries are OK and do not violate the validation constraints. …

275. §18.3.1.38, "evenFooter (Even Page Footer)", p. 1802, new attribute

Attributes	Description
xml:space (Content Contains Significant Whitespace) Namespace: http://www.w3.org/XML/1998/namespace	Specifies how white space should be handled for the contents of this element using the W3C space preservation rules. The possible values for this attribute are defined by §2.10 of the XML 1.0 specification.

276. §18.3.1.39, "evenHeader", p. 1804

&"*font name*,*font type*" - code for "text font name" and "text font type", where *font name* and *font type* are strings specifying the name and type of the font, separated by a comma. When a hyphen appears in *font name*, it means "none specified". Both of *font name* and *font type* can be localized values. Although ISO/IEC 14496-22 permits commas in font family/subfamily/full names, name and font type, the lexically first comma in the string is the one recognized as the separating comma.

277. §18.3.1.40, "f (Formula)", p. 1806, attribute aca

Change "… needed._The …" to "… needed. The …"

278. §18.3.1.40, "f (Formula)", p. 1807, attribute r2

Attributes	Description
r2 (Input Cell 2)	Second input cell for data table when dt2D is '1'. Only applies to the data tables array function "TABLE()". Written on master cell of data table formula only. …

279. §18.3.1.40, "f (Formula)", p. 1808, new attribute

Attributes	Description
xml:space (Content Contains Significant Whitespace) Namespace: http://www.w3.org/XML/1998/namespace	Specifies how white space should be handled for the contents of this element using the W3C space preservation rules. The possible values for this attribute are defined by §2.10 of the XML 1.0 specification.

280. §18.3.1.41, "firstFooter (First Page Footer)", p. 1808

First page footer content. Only used when `headerFooter@differentFirst` is '1'.

281. §18.3.1.41, "firstFooter (First Page Footer)", p. 1808, new attribute

Attributes	Description
xml:space (Content Contains Significant Whitespace) Namespace: http://www.w3.org/XML/1998/namespace	Specifies how white space should be handled for the contents of this element using the W3C space preservation rules. The possible values for this attribute are defined by §2.10 of the XML 1.0 specification.

282. §18.3.1.42, "firstHeader (First Page Header)", p. 1808

First page header content. Only used when `headerFooter@differentFirst` is '1'.

283. §18.3.1.42, "firstHeader (First Page Header)", p. 1809, new attribute

Attributes	Description
xml:space (Content Contains Significant Whitespace) Namespace: http://www.w3.org/XML/1998/namespace	Specifies how white space should be handled for the contents of this element using the W3C space preservation rules. The possible values for this attribute are defined by §2.10 of the XML 1.0 specification.

284. §18.3.1.43, "formula (Formula)", p. 1809, new attribute

Attributes	Description
xml:space (Content Contains Significant Whitespace) Namespace: http://www.w3.org/XML/1998/namespace	Specifies how white space should be handled for the contents of this element using the W3C space preservation rules. The possible values for this attribute are defined by §2.10 of the XML 1.0 specification.

285. §18.3.1.44, "formula1 (Formula 1)", p. 1809, new attribute

Attributes	Description
xml:space (Content Contains Significant Whitespace) Namespace: http://www.w3.org/XML/1998/namespace	Specifies how white space should be handled for the contents of this element using the W3C space preservation rules. The possible values for this attribute are defined by §2.10 of the XML 1.0 specification.

286. §18.3.1.45, "formula2 (Formula 2)", p. 1810, new attribute

Attributes	Description
xml:space (Content Contains Significant Whitespace) Namespace: http://www.w3.org/XML/1998/namespace	Specifies how white space should be handled for the contents of this element using the W3C space preservation rules. The possible values for this attribute are defined by §2.10 of the XML 1.0 specification.

287. §18.3.1.49, "iconSet (Icon Set)", p. 1813, attribute reverse

Attributes	Description
reverse (Reverse Icons)	If '1', reverses the default order of the icons in this icon set. …

288. §18.3.1.57, "oddFooter (Odd Page Footer)", p. 1823, new attribute

Attributes	Description
xml:space (Content Contains Significant Whitespace) Namespace: http://www.w3.org/XML/1998/namespace	Specifies how white space should be handled for the contents of this element using the W3C space preservation rules. The possible values for this attribute are defined by §2.10 of the XML 1.0 specification.

289. §18.3.1.58, "oddHeader (Odd Header)", p. 1823, new attribute

Attributes	Description
xml:space (Content Contains Significant Whitespace) Namespace: http://www.w3.org/XML/1998/namespace	Specifies how white space should be handled for the contents of this element using the W3C space preservation rules. The possible values for this attribute are defined by §2.10 of the XML 1.0 specification.

290. §18.3.1.63, "pageSetup (Page Setup Settings)", p. 1827

```
<pageSetup blackAndWhite="true" draft="false" paperHeight="1189mm"
paperWidth="841mm" ~~paperUnits="mm"~~ />
```

291. §18.3.1.63, "pageSetup (Page Setup Settings)", p. 1830

When paperHeight~~,~~ and paperWidth~~, and paperUnits~~ are specified, paperSize should be ignored.

292. §18.3.1.63, "pageSetup (Page Setup Settings)", p. 1830, attribute paperSize

Attributes	Description
paperSize (Paper Size)	Paper size 1 = Letter paper (8.5 in. by 11 in.) … 68 = A3 extra transverse paper (322 mm by 445 mm) 69 = Japanese Double Postcard (200 mm x 148 mm) 70 = A6 (105 mm x 148 mm) 71 = Japanese Envelope Kaku #2 72 = Japanese Envelope Kaku #3 73 = Japanese Envelope Chou #3 74 = Japanese Envelope Chou #4 75 = Letter Rotated (11in x 8 1/2 11 in) 76 = A3 Rotated (420 mm x 297 mm)

	77 = A4 Rotated (297 mm x 210 mm) 78 = A5 Rotated (210 mm x 148 mm) 79 = B4 (JIS) Rotated (364 mm x 257 mm) 80 = B5 (JIS) Rotated (257 mm x 182 mm) 81 = Japanese Postcard Rotated (148 mm x 100 mm) 82 = Double Japanese Postcard Rotated (148 mm x 200 mm) 83 = A6 Rotated (148 mm x 105 mm) 84 = Japanese Envelope Kaku #2 Rotated 85 = Japanese Envelope Kaku #3 Rotated 86 = Japanese Envelope Chou #3 Rotated 87 = Japanese Envelope Chou #4 Rotated 88 = B6 (JIS) (128 mm x 182 mm) 89 = B6 (JIS) Rotated (182 mm x 128 mm) 90 = (12 in x 11 in) 91 = Japanese Envelope You #4 92 = Japanese Envelope You #4 Rotated 93 = PRC 16K (146 mm x 215 mm) 94 = PRC 32K (97 mm x 151 mm) 95 = PRC 32K(Big) (97 mm x 151 mm) 96 = PRC Envelope #1 (102 mm x 165 mm) 97 = PRC Envelope #2 (102 mm x 176 mm) 98 = PRC Envelope #3 (125 mm x 176 mm) 99 = PRC Envelope #4 (110 mm x 208 mm) 100 = PRC Envelope #5 (110 mm x 220 mm) 101 = PRC Envelope #6 (120 mm x 230 mm)

	102 = PRC Envelope #7 (160 mm x 230 mm) 103 = PRC Envelope #8 (120 mm x 309 mm) 104 = PRC Envelope #9 (229 mm x 324 mm) 105 = PRC Envelope #10 (324 mm x 458 mm) 106 = PRC 16K Rotated 107 = PRC 32K Rotated 108 = PRC 32K(Big) Rotated 109 = PRC Envelope #1 Rotated (165 mm x 102 mm) 110 = PRC Envelope #2 Rotated (176 mm x 102 mm) 111 = PRC Envelope #3 Rotated (176 mm x 125 mm) 112 = PRC Envelope #4 Rotated (208 mm x 110 mm) 113 = PRC Envelope #5 Rotated (220 mm x 110 mm) 114 = PRC Envelope #6 Rotated (230 mm x 120 mm) 115 = PRC Envelope #7 Rotated (230 mm x 160 mm) 116 = PRC Envelope #8 Rotated (309 mm x 120 mm) 117 = PRC Envelope #9 Rotated (324 mm x 229 mm) 118 = PRC Envelope #10 Rotated (458 mm x 324 mm) When paperHeight, paperWidth, and paperUnits are specified, paperSize should be ignored. The possible values for this attribute are defined by the W3C XML Schema unsignedInt datatype.

293. §18.3.1.64, "pageSetup (Chart Sheet Page Setup)", p. 1832

```
<pageSetup blackAndWhite="true" draft="false" paperHeight="1189mm"
paperWidth="841mm" ~~paperUnits="mm"~~ />
```

294. §18.3.1.64, "pageSetup (Chart Sheet Page Setup)", p. 1834

When paperHeight~~,~~ and paperWidth~~, and paperUnits~~ are specified, paperSize should be ignored.

295. §18.3.1.73, "row (Row)", p. 1848, various attributes

Attributes	Description
collapsed (Collapsed)	~~'~~1~~'~~ if the rows 1 level of outlining deeper than the current row are in the collapsed outline state. It means that the rows which are 1 outline level deeper (numerically higher value) than the current row are currently hidden due to a collapsed outline state. …
customFormat (Custom Format)	~~'~~1~~'~~ if the row style should be applied. ….
customHeight (Custom Height)	~~'~~1~~'~~ if the row height has been manually set. …
hidden (Hidden)	~~'~~1~~'~~ if the row is hidden, e.g., due to a collapsed outline or by manually selecting and hiding a row. …
ph (Show Phonetic)	~~'~~1~~'~~ if the row should show phonetic. …
thickBot (Thick Bottom)	~~'~~1~~'~~ if any cell in the row has a medium or thick bottom border, or if any cell in the row directly below the current row has a thick top border. …

296. §18.3.1.75, "scenario (Scenario)", p. 1854

Attributes	Description
name (Scenario Name)	Scenario's name (user input). Shall be unique for the ~~workbook~~worksheet. The possible values for this attribute are defined by the ST_Xstring simple type (§22.9.2.19).

297. §18.3.1.85, "sheetProtection (Sheet Protection Options)", p. 1870, attribute scenarios

Change "… Scenarios _should …" to "… Scenarios should …"

298. §18.3.1.96, "v (Cell Value)", p. 1884, new attribute

Attributes	Description
xml:space (Content Contains Significant Whitespace) Namespace: http://www.w3.org/XML/1998/namespace	Specifies how white space should be handled for the contents of this element using the W3C space preservation rules. The possible values for this attribute are defined by §2.10 of the XML 1.0 specification.

299. §18.3.2.1, "colorFilter (Color Filter Criteria)", p. 1888, attribute cellColor

Attributes	Description
cellColor (Filter By Cell Color)	Flag indicating whether or not to filter by the cell's fill color. ~~'~~1~~'~~ indicates to filter by cell fill. ~~'~~0~~'~~ indicates to filter by the cell's font color. …

300. §18.3.2.2, "customFilter (Custom Filter Criteria)", p. 1888

A custom AutoFilter … when the fi~~l~~lter is applied.

301. §18.3.2.3, "customFilters (Custom Filters)", p. 1889, attribute and

Attributes	Description
and (And)	Flag indicating whether the two criteria~~s~~ have an "and" relationship. ~~'~~1~~'~~ indicates "and", ~~'~~0~~'~~ indicates "or". …

302. §18.3.2.5, "dynamicFilter (Dynamic Filter)", pp. 1891–1892, attribute various

Attributes	Description
val (Value)	A minimum numeric value for dynamic filter. (See description of valIso to understand when val is required.) The possible values for this attribute are defined by the W3C XML Schema double datatype.
valIso (ISO Value)	A minimum date value for dynamic filter. (See description of maxValIso to understand when val/valIso is required.) Only these types of dynamic filters use numeric data, and therefore shall use val and shall not use valIso: • aboveAverage and belowAverage The possible values for this attribute are defined by the W3C XML Schema dateTime datatype.

303. §18.4.12 , "t (Text)", p. 1906, new attribute

Attributes	Description
xml:space (Content Contains Significant Whitespace) Namespace: http://www.w3.org/XML/1998/namespace	Specifies how white space should be handled for the contents of this element using the W3C space preservation rules. The possible values for this attribute are defined by §2.10 of the XML 1.0 specification.

304. §18.5.1.1, "calculatedColumnFormula (Calculated Column Formula)", p. 1909, new attribute

Attributes	Description
xml:space (Content Contains Significant Whitespace) Namespace: http://www.w3.org/XML/1998/namespace	Specifies how white space should be handled for the contents of this element using the W3C space preservation rules. The possible values for this attribute are defined by §2.10 of the XML 1.0 specification.

305. §18.7.1, "author (Author)", p. 1929, new attribute

Attributes	Description
xml:space (Content Contains Significant Whitespace) Namespace: http://www.w3.org/XML/1998/namespace	Specifies how white space should be handled for the contents of this element using the W3C space preservation rules. The possible values for this attribute are defined by §2.10 of the XML 1.0 specification.

306. §18.8.1, "alignment (Alignment)", p. 1936, attribute indent

Attributes	Description
indent (Indent)	… [*Example*:For example, an indent value of '1' means that the text begins 3 space widths (of the normal style font) from the edge of the cell. *end example*] …
textRotation (Text Rotation)	Text rotation in cells. Expressed in degrees. Values are in the range ~~from~~ 0 to 180. The possible values for this attribute are defined by the W3C XML Schema unsignedInt datatype.

307. §18.8.5, "borders (Borders)", p. 1943

[*Example*: …

```
<borders count="3">
  <border>
    <startleft/>
    <endright/>
    …
  </border>
  <border>
    <startleft/>
    <endright style="medium">
      <color indexed="64"/>
    </endright>
    …
  </border>
  <border>
    <startleft/>
    <endright/>
    …
  </border>
</borders>
```

end example]

308. §18.8.29, "name (Font Name)", p. 1965

Attributes	Description
val (String Value)	… The string length for this attribute shall be 0 to 31 Unicode scalar valuescharacters. …

309. §18.8.31, "numFmts (Number Formats)", p. 1974

Format symbol	Description and result
$-+/():space	Displays the symbol. If it is desired to display a character that differs from one of these symbols, precede the character with a backslash (\). Alternatively, enclose the character in quotation marks. [*Example*: If the number format is (000), and the value 12 is in the cell, the number (012) is displayed. *end example*]
/	If this symbol is preceded and followed by a number symbol (0, #, and ?), it is interpreted as the fraction format symbol and will display the number in the format of a fraction. Otherwise, it is interpreted as the forward slash character and is displayed as such.

310. §18.10.1.10, "calculatedMember (Calculated Member)", p. 2030

~~Represents a calculated OLAP hierarchy. A calculated member is a member of an OLAP-based PivotTable whose value is calculated on the OLAP server. For PivotTables that are created from OLAP cubes the summarized values are precalculated on the OLAP server before the SpreadsheetML application displays the results. These fields appear in the PivotTable field list but cannot be changed from within the PivotTable. You cannot change the summary function used to calculate data fields or subtotals, or add calculated items.~~

A calculated member is a member in an OLAP hierarchy for which the value is calculated by an OLAP server using a Multidimensional Expressions (MDX) expression. For PivotTables that are created from OLAP cubes the summarized values are calculated by an OLAP server before the SpreadsheetML application displays the results. In OLAP PivotTables, the consuming application cannot change the summary function used to calculate totals and subtotals.

311. §18.10.1.45, "item (PivotTable Field Item)", p. 2071

Attributes	Description
x (Item Index)	Specifies the item index in pivotFields collection in the PivotCache. ~~Applies only non-OLAP PivotTables.~~ …

312. §18.10.1.46, "items (Field Items)", p. 2072

[*Example*: In the … <item x="66"/>, which … Therefore, if you added …

313. §18.10.1.67, "pivotCacheDefinition (PivotCache Definition)", pp. 2093–2094

```
<pivotCacheDefinition xmlns="…" xmlns:r="…" r:id="rId1" refreshedBy="AnonUser"
  refreshedDateIso="2006-05-22T10:07:16" createdVersion="3" refreshedVersion="3"
  minRefreshableVersion="3" recordCount="182">
  …
</pivotCacheDefinition>
```

314. §18.10.1.67, "pivotCacheDefinition (PivotCache Definition)", p. 2096, attribute refreshedDateIso

~~If refreshedDateIso and refreshedDate are both present, refreshedDateIso shall take precedence."~~

315. §18.10.1.73, "pivotTableDefinition (PivotTable Definition)", p. 2142, attribute printDrill

Change "… indicates_that …" to "… indicates that …"

316. §18.10.1.73, "pivotTableDefinition (PivotTable Definition)", p. 2146, attribute useAutoFormatting

Change "… indicates_that …" to "… indicates that …"

317. §18.10.1.90, "sharedItems (Shared Items)", p. 2167

Attributes	Description
longText (Long Text)	Specifies a boolean value that indicates whether this field contains a long text value. A string is considered long if it is over 255 Unicode scalar values~~characters~~. A value of `1` or `true` indicates the value contains more than 255 Unicode scalar values~~characters~~ of text. A value of `0` or `false` indicates the value contains less than 255 Unicode scalar values~~characters~~. [*Note*: This is used as many legacy spreadsheet application support a limit of Unicode scalar values~~characters~~ for text values. *end note*] The possible values for this attribute are defined by the W3C XML Schema boolean datatype.

318. §18.14.11, "oleLink (Generic Object Link Connection)", p. 2251, attribute progId

Change "… connection._[*Example*: …" to "… connection. [*Example*: …"

319. §18.17.2.1, "Constants", p. 2276

```
error-constant=
  "#DIV/0! " | "#N/A" | "#NAME? " | "#NULL! " |
  "#NUM! " | "#REF! " | "#VALUE! " | "#GETTING DATA" ;
```

320. §18.17.2.1, "Constants", p. 2276

```
error-constant=
  "#DIV/0!–" | "#N/A" | "#NAME?–" | "#NULL!–" |
  "#NUM!–" | "#REF!–" | "#VALUE!–" ;
```

321. §18.17.2.1, "Constants", p. 2277

```
double-quote=
'–"–' ; (* one double-quote character*)
```



```
string-char=
'␣""␣' | (* consecutive double-quotes, with no space between them *) character -
double-quote ; (* any character except double-quote *)
```

322. §18.17.2.3, "Cell References", p. 2281

```
apostrophe=
"␣'␣" ; (* one apostrophe character *)
```

323. §18.17.2.3.1, "A1-Style Cell References", p. 2285.

```
letter=
"a"|"b"|"c"|"d"|"e"|"f"|"g"|"h"|"i"|"j"|"k"|"l"|"m"|
"n"|"o"|"p"|"q"|"r"|"s"|"t"|"u"|"v"|"w"|"x"|"y"|"z"|
"a"|"b"|"c"|"d"|"e"|"f"|"g"|"h"|"i"|"j"|"k"|"l"|"m"|
"A"|"B"|"C"|"D"|"E"|"F"|"G"|"H"|"I"|"J"|"K"|"L"|"M"|
"n"|"o"|"p"|"q"|"r"|"s"|"t"|"u"|"v"|"w"|"x"|"y"|"z" ;
"N"|"O"|"P"|"Q"|"R"|"S"|"T"|"U"|"V"|"W"|"X"|"Y"|"Z" ;
```

324. §18.17.3, "Error values", p. 2292

Error Value	Reason for Occurrence
#GETTING_DATA	Intended to indicate when a cell reference cannot be evaluated because the value for the cell has not been retrieved or calculated. [*Note*: This can happen when connected to an OLAP cube. *end note*] This error constant differs from #N/A in that #GETTING_DATA is used when there is an expectation that the value for the cell will eventually be available, whereas #N/A is used when there is no such expectation.

325. §18.17.5.2, "Precision", p. 2296

The *value space* consists of the values (-1)^s × m × 2^n, where s is 0 or 1, ~~where~~ m is an integer greater than or equal to 0 and ~~whose absolute value is~~ less than 2^53, and n is an integer between -1074~~5~~ and 971~~0~~, inclusive.

326. §18.17.5.4, "Interpretation", p. 2297

Strings that are permitted according to the lexical definition in §18.17.5.3 shall be interpreted as values in the value space as follows:

4. If the ~~raw~~absolute value is larger than the largest value in the value space (2^~~1023~~1024 minus ~~-~~ ~~1~~2^971~~, by default~~), ~~or smaller than the smallest value in the value space (- 2^1023 + 1, by default),~~ then a consuming application shall treat this as equivalent to the error value #NUM! (§18.17.3). Otherwise, the value in the value space that is closest to the raw value is chosen as the interpretation. In the case that two values are equally close, the one with the smaller absolute value is chosen.

327. §18.17.6.5, "Name Representation", p. 2300

A formula can contain one or more names. These names shall be defined in the ~~Worksheet~~Workbook part's XML with each being the subject of a definedName element, inside a definedNames element. …

328. §18.17.7.2, "ACCRINT", p. 2306, value 0 or omitted

Change "… 30/360. Assumes …" to "… 30/360. Assumes …"

329. §18.17.7.2, "ACCRINT", p. 2307, value 4

Change "… 30/360. The …" to "… 30/360. The …"

330. §18.17.7.28, "BETAINV", p. 2333

Syntax:

BETAINV (*probability* , *alpha* , *beta* [, [*A*] , [*B*]])

Description: Computes the inverse of the cumulative distribution function for a specified beta distribution. Given a value for *probability*, BETAINV is used to seek for the value *x* such that BETADIST(*x*, *alpha*, *beta*, *A*, *B*) = *probability*. Thus, precision of BETAINV depends on precision of BETADIST. ~~BETAINV uses an iterative search technique.~~

331. §18.17.7.37, "CHIINV", p. 2347

Return Type and Value: number – The inverse of the one-tailed probability of the chi-squared distribution.

However, if

- …
- ~~An implementation uses an iterative search technique, and the search has not converged after some implementation-defined number of iterations~~the implementation determines that a return value cannot be computed, #N/A is returned

332. §18.17.7.49, "CORREL", p. 2360

- $\bar{y}$ ~~y-bar~~ = the sample mean AVERAGE(*array-2*)

333. §18.17.7.63, "COVAR", p. 2382

- $\bar{x}$ ~~x~~ = the sample mean AVERAGE(*array-1*)

334. §18.17.7.66, "CUBEMEMBER", p. 2385, name member-expression

Change "… constant. [*Note*: …" to "… constant. [*Note*: …"

335. §18.17.7.74, "DATE", p. 2393, name year

Change "… integer_representing …" to "… integer representing …"

336. §18.17.7.76, "DATEVALUE", pp. 2396–2397

Arguments:

Name	Type	Description
date-time-string	text	The date and/or time whose date component serial value is to be computed. … Any time information in *date-time-string* shall be ignored. …

337. §18.17.7.76, "DATEVALUE", p. 2397, name date-time-string

Change "… ignored._When …" to "… ignored. When …"

338. §18.17.7.89, "DEVSQ", p. 2410

- $\bar{x}$~~x bar~~ = the mean of the elements in *argument-list*

339. §18.17.7.110, "ERROR.TYPE", p. 2429

value	Return Value
#N/A	7
#GETTING_DATA	8
Anything else	#N/A

340. §18.17.7.121, "FINV", p. 2438

Return Type and Value: number – The inverse of the F probability distribution.

However, if

- …
- ~~An implementation uses an iterative search technique, and the search has not converged after some implementation-defined number of iterations~~the implementation determines that a return value cannot be computed, #N/A is returned

341. §18.17.7.126, "FORECAST", p. 2442

- x = a sample value
- $\bar{x}$~~x~~ is the sample mean AVERAGE(*known-xs*)
- y = a sample value

- $\bar{y}$~~y-bar~~ is the sample mean AVERAGE(*known-ys*)

342. §18.17.7.132, "GAMMAINV", p. 2447

Return Type and Value: number – The inverse of the gamma distribution.

However, if

- …
- ~~An implementation uses an iterative search technique, and the search has not converged after some implementation-defined number of iterations~~the implementation determines that a return value cannot be computed, #N/A is returned.

343. §18.17.7.170, "INTERCEPT", p. 2482

- x = a sample value
- $\bar{x}$~~x~~ is the sample mean AVERAGE(*known-xs*)
- y = a sample value
- $\bar{y}$~~y-bar~~ is the sample mean AVERAGE(*known-ys*)

344. §18.17.7.173, "IRR", p. 2487

Return Type and Value: number – The internal rate of return for a series of cash flows.

However, if ~~an implementation uses an iterative search technique, and the calculation has not converged after an implementation-defined number of iterations~~ the implementation determines that a return value cannot be computed, #NUM! is returned.

345. §18.17.7.195, "LINEST", p. 2500

- x = a sample value
- $\bar{x}$~~x~~ is the sample mean AVERAGE(*known-xs*)
- y = a sample value
- $\bar{y}$~~y-bar~~ is the sample mean AVERAGE(*known-ys*)

346. §18.17.7.230, "NORMINV", p. 2534

Return Type and Value: number – The inverse of the normal distribution for the specified mean and standard deviation.

However, if

- …

- ~~An implementation uses an iterative search technique, and the search has not converged after some implementation-defined number of iterations~~the implementation determines that a return value cannot be computed, #N/A is returned.

347. §18.17.7.232, "NORMSINV", p. 2535

Return Type and Value: number – The inverse of the standard normal distribution.

However, if

- …
- ~~An implementation uses an iterative search technique, and the search has not converged after some implementation-defined number of iterations~~the implementation determines that a return value cannot be computed, #N/A is returned.

348. §18.17.7.247, "PEARSON", p. 2557

- *x* = a sample value
- $\bar{x}$~~x~~ = the sample mean AVERAGE(*array-1*)
- *y* = a sample value
- $\bar{y}$~~y-bar~~ = the sample mean AVERAGE(*array-2*)

349. §18.17.7.283, "RSQ", p. 2593

- *x* = a sample value
- $\bar{x}$~~x~~ is the sample mean AVERAGE(*known-xs*)
- *y* = a sample value
- $\bar{y}$~~y-bar~~ is the sample mean AVERAGE(*known-ys*)

350. §18.17.7.292, "SKEW", p. 2600

- $\bar{x}$~~x-bar~~ = the mean of the elements in *argument-list*

351. §18.17.7.294, "STDEVA", p. 2602

- *x* = a sample value
- $\bar{x}$~~x~~ is the sample mean AVERAGE(*known-xs*)
- *y* = a sample value
- $\bar{y}$~~y-bar~~ is the sample mean AVERAGE(*known-ys*)

352. §18.17.7.298, "STANDARDIZE", p. 2605, name mean

Change "… distribution._Represented …" to "… distribution. Represented …"

353. §18.17.7.298, "STANDARDIZE", p. 2605, name standard-dev

Change "… distribution. Represented …" to "… distribution. Represented …"

354. §18.17.7.299, "STDEV", p. 2605

- $\bar{x}$~~x~~ = the sample mean AVERAGE(*argument-1*, *argument-1*,…, *argument-n*)

355. §18.17.7.300, "STDEVA", p. 2606

- $\bar{x}$~~x~~ = the sample mean AVERAGE(*argument-1*, *argument-1*,…, *argument-n*)

356. §18.17.7.301, "STDEVP", p. 2607

- $\bar{x}$~~x~~ = the sample mean AVERAGE(*argument-1*, *argument-1*,…, *argument-n*)

357. §18.17.7.302, "STDEVPA", p. 2608

- $\bar{x}$~~x~~ = the sample mean AVERAGE(*argument-1*, *argument-1*,…, *argument-n*)

358. §18.17.7.303, "STEYX", p. 2609

- x = a sample value
- $\bar{x}$~~x~~ is the sample mean AVERAGE(*known-xs*)
- y = a sample value
- $\bar{y}$~~y bar~~ is the sample mean AVERAGE(*known-ys*)

359. §18.17.7.324, "TIMEVALUE", p. 2627

Description: Computes the serial value of the ~~date and/or~~ time represented by the string *date-time-string*.

Arguments:

Name	Type	Description
date-time-string	text	The date and/or time whose time component serial value is to be computed. *date-time-string* can have any date and/or time format. Any date information in *date-time-string* shall be ignored.

Return Type and Value: number – The serial value of the ~~date and/or~~ time represented by the string *date-time-string*, as a value greater than or equal to 0 and less than or equal to 1.

360. §18.17.7.338, "VAR", p. 2636

- $\bar{x}$~~x~~ = the sample mean AVERAGE(*argument-1*, *argument-1*,…, *argument-n*)

361. §18.17.7.339, "VARA", p. 2637

- $\bar{x}$~~x~~ = the sample mean AVERAGE(*argument-1*, *argument-1*,…, *argument-n*)

362. §18.17.7.340, "VARP", p. 2638

- $\bar{x}$~~x~~ = the sample mean AVERAGE(*argument-1*, *argument-1*,…, *argument-n*)

363. §18.17.7.341, "VARPA", p. 2639

- $\bar{x}$~~x~~ = the sample mean AVERAGE(*argument-1*, *argument-1*,…, *argument-n*)

364. §18.17.7.356, "ZTEST", p. 2663

- $\bar{x}$~~x~~ = the sample mean AVERAGE(*array*)

365. §18.18.26, "ST_DynamicFilterType (Dynamic Filter)", p. 2682–2683, enumeration values

Enumeration Value	Description
lastQuarter (Last Quarter)	Shows last calendar quarter's dates.
lastWeek (Last Week)	Shows last week's dates, using Sunday as the first weekday.
M2 (2nd Month)	Shows the dates that are in ~~Februray~~February, regardless of year.
nextQuarter (Next Quarter)	Shows next calendar quarter's dates.
nextWeek (Next Week)	Shows next week's dates, using Sunday as the first weekday.
Q1 (1st Quarter)	Shows the dates that are in the 1st calendar quarter, regardless of year.
Q2 (2nd Quarter)	Shows the dates that are in the 2nd calendar quarter, regardless of year.
Q3 (3rd Quarter)	Shows the dates that are in the 3rd calendar quarter, regardless of year.
Q4 (4th Quarter)	Shows the dates that are in the 4th calendar quarter, regardless of year.
thisQuarter (This Quarter)	Shows this calendar quarter's dates.
thisWeek (This Week)	Shows this week's dates, using Sunday as the first weekday.

366. §19.2.1.13, "font (Embedded Font Name)", p. 2769

Attributes	Description
pitchFamily (Similar Font Family) Namespace:	Specifies the font pitch as well as the font family for the corresponding font. Because the value of this attribute is determined by an octet value ~~byte variable~~ this value shall be interpreted as follows: …

…/drawingml/2006/main	This information is determined by querying the font when present and shall not be modified when the font is not available. This information can be used in font substitution logic to locate an appropriate substitute font when this font is not available. [*Note*: Although the attribute name is pitchFamily, the integer value of this attribute specifies the font family with higher 4 bits and the font pitch with lower 4 bits. *end note*] The possible values for this attribute are defined by the W3C XML Schema byte datatype.

367. §19.2.1.19, "modifyVerifier (Modification Verifier)", p. 2774

The password supplied to the algorithm is to be a UTF-16LE encoded string; strings longer than 510 octets~~255 characters~~ are truncated to 510 octets~~255 characters~~. If there is a leading BOM character (U+FEFF) in the encoded password it is removed before hash calculation.

368. §19.3.1.21, "graphicFrame (Graphic Frame)", p. 2829, attribute bwMode

Attributes	Description
bwMode (Black and White Mode) Namespace: …/drawingml/2006/main	Specifies how the graphical object should be rendered, using color, black or white, or grayscale. [*Note*: This does not mean that the graphical object itself is stored with only black and white or grayscale information. This attribute instead sets the rendering mode that the graphical object uses. *end note*] The possible values for this attribute are defined by the ST_BlackWhiteMode simple type (§20.1.10.10).

369. §19.3.2.4, "oleObj (Global Element for Embedded objects and Controls)", p. 2859

This element specifies a global element to be used for an Embedded object and Control.

When the oleObject element contains a pic child element, the identifier specified by the pic/nvPicPr/cNvPr@id attribute shall be ignored and the identifier specified by the graphicFrame/nvGraphicFramePr/cNvPr@id attribute shall be used when deciding which identifier to use for the OLE object.

370. §19.5.9, "audio (Audio)", p. 2882

```
<p:cMediaNode vol="50%11000">…
  <p:tgtEl>
    <p:sndTgt r:embed="rId2" />
  </p:tgtEl>
</p:cMediaNode>
```

371. §19.5.44, "from (From)", p. 2919

```
<p:animScale>
  …
  <p:from x="100%000" y="100%000"/>
  <p:to x="80%000" y="100%000"/>
</p:animScale>
```

372. §19.5.46, "hsl (HSL)", p. 2921, attributes l and s

Attributes	Description
l (Lightness)	Specifies a lightness as fixed percentage in 1000ths of a percent when no percent sign is included in the value or as percent when a percent sign is presentas a percentage. The values are in the rangerange from [-100%, 100%]. The possible values for this attribute are defined by the ST_FixedPercentage simple type (§20.1.20.24).
s (Saturation)	Specifies a saturation as fixed percentage in 1000ths of a percent when no percent sign is included in the value or as percent when a percent sign is presentas a percentage. The values are in the rangerange from [-100%, 100%]. The possible values for this attribute are defined by the ST_FixedPercentage simple type (§20.1.20.24).

373. §19.5.46, "hsl (HSL)", p. 2921, attribute l

Change "… percent_ when …" to "… percent when …"

374. §19.5.46, "hsl (HSL)", p. 2921, attribute s

Change "… percent_ when …" to "… percent when …"

375. §19.5.62, "rCtr (Rotation Center)", p. 2935

```
<p:animMotion origin="layout" path="M 0 0 L 0.25 0.33333 E"
  pathEditMode="relative" rAng="0" ptsTypes="">
  …
  <p:rCtr x="56.7%457200" y="83.4%274638"/>
</p:animMotion>
```

376. §19.5.63, "rgb (RGB)", pp. 2936–2937, attributes b, g, and r

Attributes	Description
b (Blue)	This attribute specifies a blue component luminance ~~as fixed percentage in 1000ths of a percent when no percent sign is included in the value or as percent when a percent sign is present~~as a percentage. Values are in the range~~range from~~ [-100%, 100%]. The possible values for this attribute are defined by the ST_FixedPercentage simple type (§20.1.20.24).
g (Green)	This attribute specifies a green component luminance ~~as fixed percentage in 1000ths of a percent when no percent sign is included in the value or as percent when a percent sign is present~~as a percentage. Values are in the range~~range from~~ [-100%, 100%]. The possible values for this attribute are defined by the ST_FixedPercentage simple type (§20.1.20.24).
r (Red)	This attribute specifies a red component luminance ~~as fixed percentage in 1000ths of a percent when no percent sign is included in the value or as percent when a percent sign is present~~as a percentage. Values are in the range~~range from~~ [-100%, 100%]. The possible values for this attribute are defined by the ST_FixedPercentage simple type (§20.1.20.24).

377. §19.5.63, "rgb (RGB)", p. 2936, attribute b

Change "… percent_when …" to "… percent when …"

378. §19.5.63, "rgb (RGB)", p. 2937, attribute g

Change "… percent_when …" to "… percent when …"

379. §19.5.63, "rgb (RGB)", p. 2937, attribute r

Change "… percent_when …" to "… percent when …"

380. §19.5.68, "snd (Sound)", p. 2941

```
<p:stSnd>
  <p:snd r:embed="rId2" ~~r:link="rId3"~~/>
</p:stSnd>
```

381. §19.5.68, "snd (Sound)", p. 2942, attribute embed

Change "… file._[*Note*: …" to "… file. [*Note*: …"

382. §19.5.69, "sndAc (Sound Action)", p. 2942

```
<p:stSnd>
  <p:snd r:embed="rId2" r:link="rId3"/>
</p:stSnd>
```

383. §19.5.70, "sndTgt (Sound Target)", p. 2943, attribute embed

Change "… file. [*Note*: …" to "… file. [*Note*: …"

384. §19.5.76, "stSnd (Start Sound Action)", p. 2949

```
<p:stSnd>
  <p:snd r:embed="rId2" r:link="rId3"/>
</p:stSnd>
```

385. §19.5.79, "tav (Time Animate Value)", p. 2952

```
<p:tavLst>
  <p:tav tm="0%">
    …
  </p:tav>
  <p:tav tm="100000%">
    …
  </p:tav>
</p:tavLst>
```

386. §19.5.79, "tav (Time Animate Value)", p. 2955, attribute fmla

```
<p:tavLst>
  <p:tav tm="0%" fmla="#ppt_y-sin(pi*$)/3">
    …
  </p:tav>
  <p:tav tm="100000%">
    …
  </p:tav>
</p:tavLst>
```

387. §19.5.80, "tavLst (Time Animated Value List)", p. 2956

```
<p:tavLst>
  <p:tav tm="0%">
  …
  </p:tav>
```

```
    …
  </p:tavLst>
```

388. §19.5.83, “tmPct (Time Percentage)”, p. 2958

[*Example*: …

```
  <p:par>
    <p:cTn id="5" >
      <p:stCondLst> … </p:stCondLst>
      <p:iterate type="lt">
        <p:tmPct val="10000010%"/>
      </p:iterate>
      <p:childTnLst> … </p:childTnLst>
    </p:cTn>
  </p:par>
```

end example]

389. §19.5.88, “to (To)”, p. 2962

```
  <p:animScale>
    …
    <p:from x="100%000" y="100%000"/>
    <p:to x="80%000" y="100%000"/>
  </p:animScale>
```

390. §19.5.88, “to (To)”, p. 2962

```
  <p:cBhvr>
    <p:cTn id="9" dur="200" decel="10.5%0000" autoRev="1" fill="hold">
      <p:stCondLst>
      …
    </p:cTn>
    …
  </p:cBhvr>
```

391. §19.5.90, “to (To)”, p. 2964

```
  <p:animClr clrSpc="rgsb">
    …
  </p:animClr>
```

392. §19.5.92, "tavLst val (Value)", p. 2965–2966

```
<p:tavLst>
  <p:tav tm="0%">
    …
  </p:tav>
  <p:tav tm="100000%">
    …
  </p:tav>
</p:tavLst>
```

393. §19.7.53, "ST_TransitionSideDirectionType (Transition ~~Slide~~Side Direction Type)", p. 3004, enumeration values ~~r~~

Enumeration Value	Description
d (Transition ~~Slide~~Side Direction Enum (Down))	Specifies that the transition direction is down
l (Transition ~~Slide~~Side Direction Enum (Left))	Specifies that the transition direction is left
r (Transition ~~Slide~~Side Direction Enum (Right))	Specifies that the transition direction is right
u (Transition ~~Slide~~Side Direction Enum (Up))	Specifies that the transition direction is up

394. §20.1.2.2.32, "snd (Hyperlink Sound)", p. 3044, attribute embed

Change "… file. [*Note*: …" to "… file. [*Note*: …"

395. §20.1.2.3.1, "alpha (Alpha)", p. 3052, attribute val

Attributes	Description

val (Value)	…
	[*Example*: The following represents a green solid fill which is 50% opaque
	
	`<a:solidFill>`
	`  <a:srgbClr val="00FF00">`
	`  <a:alpha val="50~~.000~~%"/>`
	`  </a:srgbClr>`
	`</a:solidFill>`
	
	end example]
	…

396. §20.1.2.3.2, "alphaMod (Alpha Modulation)", p. 3052, attribute val

Attributes	Description

val (Value)	…
	[*Example*: The following represents a green solid fill which is 50% opaque
	
	`<a:solidFill>`
	`  <a:srgbClr val="00FF00">`
	`  <a:alphaMod val="50~~.000~~%"/>`
	`  </a:srgbClr>`
	`</a:solidFill>`
	
	end example]

397. §20.1.2.3.3, "alphaOff (Alpha Offset)", p. 3053, attribute val

Attributes	Description

val (Value)	Specifies the opacity as expressed by a percentage offset increase or decrease ~~relative~~ to the input color. Increases never increase the opacity beyond 100%, decreases never decrease the opacity below 0%.
	
	[*Example*: The following represents a green solid fill which is 90% opaque
	
	`<a:solidFill>`
	`  <a:srgbClr val="00FF00">`
	`  <a:alphaOff val="-10~~.000~~%"/>`
	`  </a:srgbClr>`
	`</a:solidFill>`
	
	end example]
	…

398. §20.1.2.3.4, "blue (Blue)", p. 3054, attribute val

Attributes	Description

val (Value)	…
	[*Example*: The following manipulates the fill from having RGB value RRGGBB = (00, FF, 00) to value RRGGBB= (00, FF, FF)
	
	`  <a:solidFill>`
	`  <a:srgbClr val="00FF00">`
	`  <a:blue val="100~~.000~~%"/>`
	`  </a:srgbClr>`
	`  </a:solidFill>`
	
	end example]
	…

399. §20.1.2.3.5, "blueMod (Blue ~~Modification~~Modulation)", p. 3055, attribute val

Attributes	Description

val (Value)	~~Specifies the value of the blue component. The assigned value is specified as a percentage with 0% indicating minimal blue and 100% indicating maximum blue.~~ Specifies the blue component as expressed by a percentage relative to the input color component. Increases never increase the blue component beyond 100%, decreases never decrease the blue component below 0%.
	
	[*Example*: The following manipulates the fill from having RGB value RRGGBB = (~~00, FF, 00~~00, 00, FF) to value RRGGBB= (~~00, FF, FF~~00, 00, 80)
	
	`<a:solidFill>`
	`  <a:srgbClr val="~~00FF00~~0000FF">`
	`  <a:~~blue~~blueMod val="~~100.000%~~50%"/>`
	`  </a:srgbClr>`
	`</a:solidFill>`
	
	end example]
	
	…

400. §20.1.2.3.6, "blueOff (Blue Offset)", pp. 3055–3056, attribute val

Attributes	Description

val (Value)	~~Specifies the value of the blue component. The assigned value is specified as a percentage with 0% indicating minimal blue and 100% indicating maximum blue.~~ Specifies the blue component as expressed by a percentage offset increase or decrease to the input color component. Increases never increase the blue component beyond 100%, decreases never decrease the blue component below 0%.
	
	[*Example*: The following manipulates the fill from having RGB value RRGGBB = (~~00, FF, 00~~00, 00, FF) to value RRGGBB= (~~00, FF, FF~~00, 00, CC)
	
	`<a:solidFill>`
	`  <a:srgbClr val="00FF00">`
	`  <a:~~blue~~blueOff val="~~100.000%~~-20%"/>`
	`  </a:srgbClr>`
	`</a:solidFill>`
	
	end example]
	
	…

401. §20.1.2.3.10, "green (Green)", p. 3057, attribute val

Attributes	Description

val (Value)	Specifies the value of the ~~blue~~green component. The assigned value is specified as a percentage with 0% indicating minimal ~~blue~~green and 100% indicating maximum ~~blue~~green.
	
	[*Example*: The following manipulates the fill from having RGB value RRGGBB = (~~00, FF, 00~~00, 00, FF) to value RRGGBB= (00, FF, FF)
	
	`<a:solidFill>`
	`  <a:srgbClr val="~~00FF00~~0000FF">`
	`  <a:~~blue~~green val="100.~~000~~%"/>`
	`  </a:srgbClr>`
	`</a:solidFill>`
	
	end example]
	
	…

402. §20.1.2.3.11, "greenMod (Green ~~Modification~~Modulation)", p. 3058, attribute val

Attributes	Description

val (Value)	~~Specifies the value of the blue component. The assigned value is specified as a percentage with 0% indicating minimal blue and 100% indicating maximum blue.~~ Specifies the green component as expressed by a percentage relative to the input color component. Increases never increase the green component beyond 100%, decreases never decrease the green component below 0%.
	
	[*Example*: The following manipulates the fill from having RGB value RRGGBB = (00, FF, 00) to value RRGGBB= (~~00, FF, FF~~00, 80, 00)
	
	`<a:solidFill>`
	`  <a:srgbClr val="00FF00">`
	`  <a:~~blue~~greenMod val="~~100.000%~~50%"/>`
	`  </a:srgbClr>`
	`</a:solidFill>`
	
	end example]
	
	…

403. §20.1.2.3.12, "greenOff (Green Offset)", p. 3059, attribute val

Attributes	Description

val (Value)	~~Specifies the value of the blue component. The assigned value is specified as a percentage with 0% indicating minimal blue and 100% indicating maximum blue.~~ Specifies the green component as expressed by a percentage offset increase or decrease to the input color component. Increases never increase the green component beyond 100%, decreases never decrease the green component below 0%.
	
	[*Example*: The following manipulates the fill from having RGB value RRGGBB = (00, FF, 00) to value RRGGBB= (~~00, FF, FF~~00, CC, 00)
	
	`<a:solidFill>`
	`  <a:srgbClr val="00FF00">`
	`  <a:~~blue~~greenOff val="~~100.000%~~-20%"/>`
	`  </a:srgbClr>`
	`</a:solidFill>`
	
	end example]
	
	…

404. §20.1.2.3.13, "hslClr (Hue, Saturation, Luminance Color Model)", p. 3059

[*Example*:

The color blue having RGB value RRGGBB = (00, 00, 80) is equivalent to

```
  <a:solidFill>
    <a:hslClr hue="14400000" sat="100~~.000~~%" lum="50~~.000~~%">
  </a:solidFill>
```

end example]

405. §20.1.2.3.15, "hueMod (Hue Modulate)", p. 3062

Attributes	Description

val (Value)	…
	[*Example*: The following represents a green solid fill which is 50% opaque
	
	`<a:solidFill>`
	`  <a:srgbClr val="00FF00">`
	`  <a:alphaMod val="50~~.000~~%"/>`
	`  </a:srgbClr>`
	`</a:solidFill>`
	
	end example]
	…

406. §20.1.2.3.19, "lum (Luminance)", p. 3065, attribute val

[*Example*:

The following two solid fills are equivalent:

```
<a:solidFill>
  <a:hslClr hue="14400000" sat="100~~.000~~%" lum="50~~.000~~%">
</a:solidFill>
<a:solidFill>
  <a:hslClr hue="14400000" sat="100~~.000~~%" lum="0%">
    <a:lum val="50%"/>
  <a:hslClr/>
</a:solidFill>
```

end example]

Attributes	Description
val (Value)	Specifies the value of the ~~blue component~~luminance. The assigned value is specified as a percentage with 0% indicating minimal ~~blue~~luminance and 100% indicating maximum ~~blue~~luminance. [*Example*: The following manipulates the fill from having RGB value RRGGBB = (00, FF, 00) to value RRGGBB= (~~00, FF, FF~~00, 66, 00) <a:solidFill> <a:srgbClr val="00FF00"> <a:~~blue~~lum val="~~100.000%~~20%"/> </a:srgbClr> </a:solidFill> *end example*] …

407. §20.1.2.3.20, "lumMod (Luminance Modulation)", p. 3065, attribute val

Attributes	Description

val (Value)	~~Specifies the value of the blue component. The assigned value is specified as a percentage with 0% indicating minimal blue and 100% indicating maximum blue.~~ Specifies the luminance as expressed by a percentage relative to the input color. Increases never increase the luminance beyond 100%, decreases never decrease the luminance below 0%.
	
	[*Example*: The following manipulates the fill from having RGB value RRGGBB = (00, FF, 00) to value RRGGBB= (~~00, FF, FF~~00, 75, 00)
	
	`<a:solidFill>`
	`  <a:srgbClr val="00FF00">`
	`  <a:~~blue~~lumMod val="~~100.000%~~50%"/>`
	`  </a:srgbClr>`
	`</a:solidFill>`
	
	end example]
	
	…

408. §20.1.2.3.21, "lumOff (Luminance Offset)", p. 3066, attribute val

Attributes	Description

val (Value)	~~Specifies the value of the blue component. The assigned value is specified as a percentage with 0% indicating minimal blue and 100% indicating maximum blue.~~ Specifies the luminance as expressed by a percentage offset increase or decrease to the input color. Increases never increase the luminance beyond 100%, decreases never decrease the luminance below 0%.
	
	[*Example*: The following manipulates the fill from having RGB value RRGGBB = (00, FF, 00) to value RRGGBB= (~~00, FF, FF~~00, 99, 00)
	
	`<a:solidFill>`
	`  <a:srgbClr val="00FF00">`
	`  <a:~~blue~~lumOff val="~~100.000%~~-20%"/>`
	`  </a:srgbClr>`
	`</a:solidFill>`
	
	end example]
	
	…

409. §20.1.2.3.23, "red (Red)", p. 3068, attribute val

Attributes	Description

val (Value)	Specifies the value of the ~~blue~~red component. The assigned value is specified as a percentage with 0% indicating minimal ~~blue~~red and 100% indicating maximum ~~blue~~red.
	
	[*Example*: The following manipulates the fill from having RGB value RRGGBB = (00, FF, 00) to value RRGGBB= (~~00, FF, FF~~FF, FF, 00)
	
	`<a:solidFill>`
	`  <a:srgbClr val="00FF00">`
	`  <a:~~blue~~red val="100~~.000~~%"/>`
	`  </a:srgbClr>`
	`</a:solidFill>`
	
	end example]
	
	…

410. §20.1.2.3.24, "redMod (Red Modulation)", p. 3069, attribute val

Attributes	Description

val (Value)	~~Specifies the value of the blue component. The assigned value is specified as a percentage with 0% indicating minimal blue and 100% indicating maximum blue.~~ Specifies the red component as expressed by a percentage relative to the input color component. Increases never increase the red component beyond 100%, decreases never decrease the red component below 0%.
	
	[*Example*: The following manipulates the fill from having RGB value RRGGBB = (~~00, FF, 00~~FF, 00, 00) to value RRGGBB= (~~00, FF, FF~~80, 00, 00)
	
	`<a:solidFill>`
	`  <a:srgbClr val="~~00FF00~~FF0000">`
	`  <a:~~blue~~redMod val="~~100.000%~~50%"/>`
	`  </a:srgbClr>`
	`</a:solidFill>`
	
	end example]
	
	…

411. §20.1.2.3.25, "redOff (Red Offset)", p. 3070, attribute val

Attributes	Description

val (Value)	~~Specifies the value of the blue component. The assigned value is specified as a percentage with 0% indicating minimal blue and 100% indicating maximum blue.~~ Specifies the red component as expressed by a percentage offset increase or decrease to the input color component. Increases never increase the red component beyond 100%, decreases never decrease the red component below 0%.
	
	[*Example*: The following manipulates the fill from having RGB value RRGGBB = (~~00, FF, 00~~FF, 00, 00) to value RRGGBB= (~~00, FF, FF~~CC, 00, 00)
	
	`<a:solidFill>`
	`  <a:srgbClr val="`~~`00FF00`~~`FF0000">`
	`  <a:`~~`blue`~~`redOff val="`~~`100.000%`~~`-20%"/>`
	`  </a:srgbClr>`
	`</a:solidFill>`
	
	end example]
	
	…

412. §20.1.2.3.26, "sat (Saturation)", p. 3071, attribute val

[*Example*:

The following two solid fills are equivalent:

```
  <a:solidFill>
    <a:hslClr hue="14400000" sat="100000100%" lum="5000050%">
  </a:solidFill>
  <a:solidFill>
    <a:hslClr hue="14400000" sat="0%" lum="5000050%">
      <a:sat val="100000"/>
    <a:hslClr/>
  </a:solidFill>
```

end example]

Attributes	Description

Attributes	Description

val (Value)	Specifies the value of the ~~blue component~~saturation. The assigned value is specified as a percentage with 0% indicating minimal ~~blue~~saturation and 100% indicating maximum ~~blue~~saturation.
	
	[*Example*: The following manipulates the fill from having RGB value RRGGBB = (00, FF, 00) to value RRGGBB= (~~00, FF, FF~~40, C0, 40)
	
	`<a:solidFill>`
	`  <a:srgbClr val="00FF00">`
	`  <a:~~blue~~sat val="~~100.000%~~50%"/>`
	`  </a:srgbClr>`
	`</a:solidFill>`
	
	end example]
	
	…

413. §20.1.2.3.27, "satMod (Saturation Modulation)", pp. 3071–3072, attribute val

Attributes	Description

val (Value)	~~Specifies the value of the blue component. The assigned value is specified as a percentage with 0% indicating minimal blue and 100% indicating maximum blue.~~ Specifies the saturation as expressed by a percentage relative to the input color. Increases never increase the saturation beyond 100%, decreases never decrease the saturation below 0%.
	
	[*Example*: The following manipulates the fill from having RGB value RRGGBB = (00, FF, 00) to value RRGGBB= (~~00, FF, FF~~66, 99, 66)
	
	`<a:solidFill>`
	`  <a:srgbClr val="00FF00">`
	`  <a:~~blue~~satMod val="~~100.000%~~20%"/>`
	`  </a:srgbClr>`
	`</a:solidFill>`
	
	end example]
	…

414. §20.1.2.3.28, "satOff (Saturation Offset)", p. 3072, attribute val

Attributes	Description

val (Value)	~~Specifies the value of the blue component. The assigned value is specified as a percentage with 0% indicating minimal blue and 100% indicating maximum blue.~~ Specifies the saturation as expressed by a percentage offset increase or decrease to the input color. Increases never increase the saturation beyond 100%, decreases never decrease the saturation below 0%.
	
	[*Example*: The following manipulates the fill from having RGB value RRGGBB = (00, FF, 00) to value RRGGBB= (~~00, FF, FF~~19, E5, 19)
	
	`<a:solidFill>`
	`  <a:srgbClr val="00FF00">`
	`  <a:~~blue~~satOff val="~~100.000%~~-20%"/>`
	`  </a:srgbClr>`
	`</a:solidFill>`
	
	end example]
	
	…

415. §20.1.2.3.30, "scrgbClr (RGB Color Model - Percentage Variant)", p. 3074

[*Example*: The following represent the same color

```
<a:solidFill>
  <a:scrgbClr r="~~50000~~50%" g="~~50000~~50%" b="~~50000~~50%"/>
</a:solidFill>
<a:solidFill>
  <a:srgbClr val="BCBCBC"/>
</a:solidFill>
```

end example]

416. §20.1.2.3.31, "shade (Shade)", pp. 3076–3077, attribute val

Attributes	Description

val (Value)	Specifies the ~~opacity~~shade as expressed by a percentage value.
	
	[*Example*: ~~The following represents a green solid fill which is 50% opaque~~ The following manipulates the fill from having RGB value RRGGBB = (00, FF, 00) to value RRGGBB= (00, BC, 00)
	
	`<a:solidFill>`
	`  <a:srgbClr val="00FF00">`
	`  <a:~~alpha~~shade val="50~~.000~~%"/>`
	`  </a:srgbClr>`
	`</a:solidFill>`
	
	end example]
	
	…

417. §20.1.2.3.32, "srgbClr (RGB Color Model - Hex Variant)", p. 3077

[*Example*: The following represent the same color

```
<a:solidFill>
  <a:scrgbClr r="~~50000~~50%" g="~~50000~~50%" b="~~50000~~50%"/>
</a:solidFill>
<a:solidFill>
  <a:srgbClr val="BCBCBC"/>
</a:solidFill>
```

end example]

418. §20.1.2.3.34, "tint (Tint)", p. 3081, attribute val

Attributes	Description

val (Value)	Specifies the ~~opacity~~tint as expressed by a percentage value.
	
	[*Example*: ~~The following represents a green solid fill which is 50% opaque~~ The following manipulates the fill from having RGB value RRGGBB = (00, FF, 00) to value RRGGBB= (BC, FF, BC)
	
	`<a:solidFill>`
	`  <a:srgbClr val="00FF00">`
	`  <a:~~alpha~~tint val="50~~.000~~%"/>`
	`  </a:srgbClr>`
	`</a:solidFill>`
	
	end example]
	
	…

419. §20.1.3.7, "wavAudioFile (Audio from WAV File)", p. 3089, attribute embed

Change "… file. [*Note*: …" to "… file. [*Note*: …"

420. §20.1.5.5, "camera (Camera)", p. 3153

Attributes	Description

zoom (Zoom)	…
	`<a:camera prst="perspectiveContrastingRightFacing"`
	`  fov="6900000" zoom="~~200000~~200%">`
	`  <a:rot lat="1200000" lon="18000000" rev="1200000"/>`
	`</a:camera>`
	…

421. §20.1.10.46, "ST_PositivePercentage (Positive Percentage Value with Sign)", p. 3300

422. §20.4.2.3, "anchor (Anchor for Floating DrawingML Object)", p. 3462–3467

Attributes	Description
allowOverlap (Allow Objects to Overlap)	… ~~If this element is omitted on a given DrawingML object, then overlap shall not be allowed between a DrawingML object which intersects another DrawingML object displayed at the same location.~~ …
behindDoc (Display Behind Document Text)	… ~~If this attribute is omitted, then the parent DrawingML object shall be displayed in front of the text content of the document in cases of overlapping.~~ …
layoutInCell (Layout In Table Cell)	… ~~If this attribute is omitted, then its default value shall be considered to be `false`.~~ …
locked (Lock Anchor)	… ~~If this attribute is omitted, then the anchor shall not be locked for the parent DrawingML object (i.e. a default value of `false`).~~ ~~…~~

423. §21.1.2.2.2, "defPPr (Default Paragraph Style)", p. 3569–3570, attribute rtl

Change "[*Example*: Consider …" to "[*Example*: Consider …"

Change "… <a:t>تجربة </a:t> …" to "… <a:t>تجربة</a:t> …"

424. §21.1.2.2.7, "pPr (Text Paragraph Properties)", p. 3587–3570, attribute rtl

Change "[*Example*: Consider …" to "[*Example*: Consider …"

Change "… <a:t>تجربة </a:t> …" to "… <a:t>تجربة </a:t> …"

425. §21.1.2.3.1, "cs (Complex Script Font)", pp. 3598–3599

Attributes	Description
pitchFamily (Similar Font Family)	Specifies the font pitch as well as the font family for the corresponding font. Because the value of this attribute is determined by an octet value ~~byte variable~~ this value shall be interpreted as follows: … [*Note*: Although the attribute name is pitchFamily, the integer value of this attribute specifies the font family with higher 4 bits and the font pitch with lower 4 bits. *end note*] The possible values for this attribute are defined by the W3C XML Schema byte datatype.

426. §21.1.2.3.3, "ea (East Asian Font)", pp. 3606–3607

Attributes	Description
pitchFamily (Similar Font Family)	Specifies the font pitch as well as the font family for the corresponding font. Because the value of this attribute is determined by an octet value ~~byte variable~~ this value shall be interpreted as follows: … [*Note*: Although the attribute name is pitchFamily, the integer value of this attribute specifies the font family with higher 4 bits and the font pitch with lower 4 bits. *end note*] The possible values for this attribute are defined by the W3C XML Schema byte datatype.

427. §21.1.2.3.7, "latin (Latin Font)", pp. 3614–3615

Attributes	Description
pitchFamily (Similar Font Family)	Specifies the font pitch as well as the font family for the corresponding font. Because the value of this attribute is determined by an octet value ~~byte variable~~ this value shall be interpreted as follows: … [*Note*: Although the attribute name is pitchFamily, the integer value of this attribute specifies the font family with higher 4 bits and the font pitch with lower 4 bits. *end note*] The possible values for this attribute are defined by the W3C XML Schema byte datatype.

428. §21.1.2.3.10, "sym (Symbol Font)", pp. 3623–3624

Attributes	Description
pitchFamily (Similar Font Family)	Specifies the font pitch as well as the font family for the corresponding font. Because the value of this attribute is determined by an octet value ~~byte variable~~ this value shall be interpreted as follows: … [*Note*: Although the attribute name is pitchFamily, the integer value of this attribute specifies the font family with higher 4 bits and the font pitch with lower 4 bits. *end note*] The possible values for this attribute are defined by the W3C XML Schema byte datatype.

429. §21.1.2.4.6, "buFont (Specified)", p. 3638–3639

Attributes	Description
pitchFamily (Similar Font Family)	Specifies the font pitch as well as the font family for the corresponding font. Because the value of this attribute is determined by an octet value ~~byte variable~~ this value shall be

	interpreted as follows: … [*Note*: Although the attribute name is pitchFamily, the integer value of this attribute specifies the font family with higher 4 bits and the font pitch with lower 4 bits. *end note*] The possible values for this attribute are defined by the W3C XML Schema byte datatype.

430. §21.1.2.4.9, "buSzPct (Bullet Size Percentage)", pp. 3640–3641

This element specifies the size in percentage of the surrounding text to be used on bullet characters within a given paragraph. ~~The size is specified using a percentage where 1000 is equal to 1 percent of the font size and 100000 is equal to 100 percent font of the font size.~~

[*Example*: Consider the DrawingML shown below.

```
<p:txBody>
  …
  <a:p>
    <a:pPr …>
      <a:buSzPct val="~~111000~~111%"/>
    </a:pPr>
    …
    <a:t>Bullet 1</a:t>
    …
  </a:p>
  …
</p:txBody>
```

The size of the above bullet follows the text size in that it is always rendered at 111% the size of the text within the given text run. This is specified by val="~~111000~~111%", with a restriction on the values not being less than 25% or more than 400%. ~~A value of 100000 is equal to 100%, similarly a value of 1000 is equal to 1%.~~ This percentage size should only apply to the actual bullet character and not to the text within the bullet. *end example*]

…

Attributes	Description
val (Value)	Specifies the percentage of the text size that this bullet should be. ~~It is specified here in terms of 100% being equal to 100000 and 1% being specified in increments of 1000.~~ This attribute should not be lower than 25%~~, or 25000~~ and not be higher than 400%~~, or 400000~~. The possible values for this attribute are defined by the ST_TextBulletSizePercent simple type (§20.1.10.62).

431. §21.1.2.4.13, "lvl1pPr (List Level 1 Text Style)", p. 3651–3652, attribute rtl

Change "[*Example*:_Consider …" to "[*Example*: Consider …"

Change "… <a:t>تجربة_</a:t> …" to "… <a:t>تجربة </a:t> …"

432. §21.1.2.4.14, "lvl2pPr (List Level 2 Text Style)", p. 3660–3661, attribute rtl

Change "[*Example*:_Consider …" to "[*Example*: Consider …"

Change "… <a:t>تجربة_</a:t> …" to "… <a:t>تجربة </a:t> …"

433. §21.1.2.4.15, "lvl3pPr (List Level 3 Text Style)", p. 3669, attribute rtl

Change "[*Example*:_Consider …" to "[*Example*: Consider …"

Change "… <a:t>تجربة_</a:t> …" to "… <a:t>تجربة </a:t> …"

434. §21.1.2.4.16, "lvl4pPr (List Level 4 Text Style)", p. 3677–3678, attribute rtl

Change "[*Example*:_Consider …" to "[*Example*: Consider …"

Change "… <a:t>تجربة_</a:t> …" to "… <a:t>تجربة </a:t> …"

435. §21.1.2.4.17, "lvl5pPr (List Level 5 Text Style)", p. 3686, attribute rtl

Change "[*Example*:_Consider …" to "[*Example*: Consider …"

Change "… <a:t>تجربة_</a:t> …" to "… <a:t>تجربة </a:t> …"

436. §21.1.2.4.18, "lvl6pPr (List Level 6 Text Style)", p. 3694–3695, attribute rtl

Change "[*Example*:_Consider …" to "[*Example*: Consider …"

Change "… <a:t>تجربة_</a:t> …" to "… <a:t>تجربة </a:t> …"

437. §21.1.2.4.19, "lvl7pPr (List Level 7 Text Style)", p. 3703, attribute rtl

Change "[*Example*:_Consider …" to "[*Example*: Consider …"

Change "… <a:t>تجربة_</a:t> …" to "… <a:t>تجربة </a:t> …"

438. §21.1.2.4.20, "lvl8pPr (List Level 8 Text Style)", p. 3711–3712, attribute rtl

Change "[*Example*:_Consider …" to "[*Example*: Consider …"

Change "… <a:t>تجربة_</a:t> …" to "… <a:t>تجربة </a:t> …"

439. §21.1.2.4.21, "lvl9pPr (List Level 9 Text Style)", p. 3720, attribute rtl

Change "[*Example*:_Consider …" to "[*Example*: Consider …"

Change "… <a:t>تجربة_</a:t> …" to "… <a:t>تجربة </a:t> …"

440. §21.2.2.12, "backward (Backward)", p. 3763

This element specifies the number of categories (or units on a scatter chart) that the trend line extends before the data for the series that is being trended. On scatter and non-scatter charts, the value shall be any non-negative value~~0 or 0.5~~.

441. §21.2.2.59, "evenFooter (Even Footer)", p. 3789, new attribute

Attributes	Description
xml:space (Content Contains Significant Whitespace) Namespace: http://www.w3.org/XML/1998/namespace	Specifies how white space should be handled for the contents of this element using the W3C space preservation rules. The possible values for this attribute are defined by §2.10 of the XML 1.0 specification.

442. §21.2.2.60, "evenHeader (Even Header)", p. 3789, new attribute

Attributes	Description
xml:space (Content Contains Significant Whitespace) Namespace: http://www.w3.org/XML/1998/namespace	Specifies how white space should be handled for the contents of this element using the W3C space preservation rules. The possible values for this attribute are defined by §2.10 of the XML 1.0 specification.

443. §21.2.2.63, "externalData (External Data Relationship)", p. 3790

Attributes	Description
id (Relationship Reference) Namespace: .../officeDocument/2006/relationships	Specifies the relationship ID for the relationship for this chart. The relationship explicitly targeted by this attribute shall either be of type http://schemas.openxmlformats.org/officeDocument/2006/relationships/package, or http://schemas.openxmlformats.org/officeDocument/2006/relationships/oleObject. The possible values for this attribute are defined by the ST_RelationshipId simple type (§22.8.2.1).

444. §21.2.2.66, "firstFooter (First Footer)", p. 3792, new attribute

Attributes	Description
xml:space (Content Contains Significant Whitespace) Namespace: http://www.w3.org/XML/1998/namespace	Specifies how white space should be handled for the contents of this element using the W3C space preservation rules. The possible values for this attribute are defined by §2.10 of the XML 1.0 specification.

445. §21.2.2.67, "firstHeader (First Header)", p. 3792, new attribute

Attributes	Description
xml:space (Content Contains Significant Whitespace) Namespace: http://www.w3.org/XML/1998/namespace	Specifies how white space should be handled for the contents of this element using the W3C space preservation rules. The possible values for this attribute are defined by §2.10 of the XML 1.0 specification.

446. §21.2.2.73, "forward (Forward)", p. 3795

This element specifies the number of categories (or units on a scatter chart) that the trend line extends after the data for the series that is being trended. On scatter and non-scatter charts, the value shall be any non-negative value~~a multiple of 0.5~~.

447. §21.2.2.124, "oddFooter (Odd Footer)", p. 3818, new attribute

Attributes	Description
xml:space (Content Contains Significant Whitespace) Namespace: http://www.w3.org/XML/1998/namespace	Specifies how white space should be handled for the contents of this element using the W3C space preservation rules. The possible values for this attribute are defined by §2.10 of the XML 1.0 specification.

448. §21.2.2.125, "oddHeader (Odd Header)", p. 3818, new attribute

Attributes	Description
xml:space (Content Contains Significant Whitespace) Namespace: http://www.w3.org/XML/1998/namespace	Specifies how white space should be handled for the contents of this element using the W3C space preservation rules. The possible values for this attribute are defined by §2.10 of the XML 1.0 specification.

449. §21.2.2.134, "pageSetup (Page Setup)", p. 3822

```
<pageSetup blackAndWhite="true" draft="false" paperHeight="1189mm"
paperWidth="841mm" ~~paperUnits="mm"~~ />
```

450. §21.2.2.134, "pageSetup (Page Setup)", p. 3823, attribute paperSize

Attributes	Description
paperSize (~~Page~~ Paper Size)	Specifies the paper size according to the following table. …

451. §21.2.2.134, "pageSetup (Page Setup)", p. 3825

When paperHeight~~,~~ and paperWidth~~, and paperUnits~~ are specified, paperSize should be ignored.

452. §21.2.2.136, "perspective (Perspective)", p. 3827

Attributes	Description
val (Perspective Value)	Specifies the contents of this attribute ~~contain an integer between 0 and 100~~. …

453. §21.2.2.220, "userShapes (User Shapes)", p. 3867

This element shall specify the shapes drawn on top of the chart

Parent Elements
Root element of Chart Drawing Part

454. §21.2.3.18, "ST_HoleSize (Hole Size)", p. 3884

This simple type specifies that its contents contain an integer between 1~~0~~ and 90, whose contents are a percentage.

…

- This simple type has a minimum value of greater than or equal to 1~~0~~.

455. §21.2.3.33, "ST_Period (Period)", p. 3892

This simple type specifies that its contents contain an integer greater than or equal to 2~~between 2 and 255~~.

This simple type's contents are a restriction of the W3C XML Schema unsignedInt~~Byte~~ datatype.

This simple type also specifies the following restrictions:

- This simple type has a minimum value of greater than or equal to 2.
- ~~This simple type has a maximum value of less than or equal to 255.~~

456. §21.2.3.33, "ST_Period (Period)", p. 3892, enumeration value auto

Enumeration Value	Description
auto (Auto)	Specifies an application-specific marker shall be drawn at each data point.

457. §21.2.3.34, "ST_Perspective (Perspective)", p. 3892

This simple type specifies that its contents contain an integer between 0 and 240~~100~~, whose unit is one-half degrees~~contents are a percentage~~.