

F Checklist of Implementation-Defined Features (Non-Normative)

This appendix provides a summary of XSLT language features whose effect is explicitly [implementation-defined](#). The conformance rules (see [26 Conformance](#)) require vendors to provide documentation that explains how these choices have been exercised.

1. If the initialization of any [global variables](#) or [parameter](#) depends on the context item, a dynamic error can occur if the context item is absent. It is [implementation-defined](#) whether this error occurs during priming of the stylesheet or subsequently when the variable is referenced; and it is [implementation-defined](#) whether the error occurs at all if the variable or parameter is never referenced. (See [2.3.2 Priming a Stylesheet](#))
2. The way in which an XSLT processor is invoked, and the way in which values are supplied for the source document, starting node, [stylesheet parameters](#), and [base output URI](#), are implementation-defined. (See [2.3.2 Priming a Stylesheet](#))
3. The way in which a [base output URI](#) is established is [implementation-defined](#) (See [2.3.6 Post-processing the Raw Result](#))
4. The mechanisms for creating new [extension instructions](#) and [extension functions](#) are [implementation-defined](#). (See [2.8 Extensibility](#))
5. It is [implementation-defined](#) whether type errors are signaled statically. (See [2.11 Error Handling](#))
6. It is [implementation-defined](#) how a package is located given its name and version, and which version of a package is chosen if several are available. (See [3.6.2 Dependencies between Packages](#))
7. Mechanisms to locate the source or executable code of a [package](#) are implementation-defined. (See [3.6.2 Dependencies between Packages](#))
8. When XQuery functions and variables are used from XSLT, it is [implementation-defined](#) how any differences between XSLT and XQuery semantics are handled; it is [implementation-defined](#) whether XQuery code is evaluated within the same [execution scope](#)^{FO30} as XSLT code; and it is [implementation-defined](#) whether node identity is preserved across the interface. The effect of calling XQuery functions that are updating or nondeterministic is also [implementation-defined](#). (See [3.6.7 Using an XQuery Library Package](#))
9. In the absence of an `[xsl:]default-collation` attribute, the default collation **may** be set by the calling application in an [implementation-defined](#) way. (See [3.8.1 The default-collation Attribute](#))
10. The set of namespaces that are specially recognized by the implementation (for example, for user-defined data elements, and [extension attributes](#)) is [implementation-defined](#). (See [3.8.3 User-defined Data Elements](#))
11. The effect of user-defined data elements whose name is in a namespace recognized by the implementation is [implementation-defined](#). (See [3.8.3 User-defined Data Elements](#))
12. If the [effective version](#) of any element in the stylesheet is not 1.0 or 2.0 but is less than 3.0, the **recommended** action is to report a static error; however, processors **may** recognize such values and process the element in an [implementation-defined](#) way. (See [3.10 Backwards Compatible Processing](#))
13. It is implementation-defined whether an XSLT 3.0 processor supports backwards compatible behavior for any XSLT version earlier than XSLT 3.0. (See [3.10 Backwards Compatible Processing](#))
14. The way in which the URI reference appearing in

an [xsl:include](#) or [xsl:import](#) declaration is used to locate a representation of a [stylesheet module](#), and the way in which the stylesheet module is constructed from that representation, are [implementation-defined](#). In particular, it is implementation-defined which URI schemes are supported, whether fragment identifiers are supported, and what media types are supported. (See [3.12.1 Locating Stylesheet Modules](#))

15. It is implementation-defined what forms of URI reference are acceptable in the href attribute of the [xsl:include](#) and [xsl:import](#) elements, for example, the URI schemes that may be used, the forms of fragment identifier that may be used, and the media types that are supported. (See [3.12.1 Locating Stylesheet Modules](#))
16. An implementation may define mechanisms, above and beyond [xsl:import-schema](#) that allow [schema components](#) such as type definitions to be made available within a stylesheet. (See [3.15 Built-in Types](#))
17. It is implementation-defined which versions and editions of XML and XML Namespaces (1.0 and/or 1.1) are supported. (See [4.1 XML Versions](#))
18. Limits on the value space of primitive datatypes, where not fixed by [\[XML Schema Part 2\]](#), are implementation-defined. (See [4.7 Limits](#))
19. The set of [statically known documents](#)^{XP30} is [implementation-defined](#). (See [5.4.1 Initializing the Static Context](#))
20. The set of [statically known collections](#)^{XP30} is [implementation-defined](#). (See [5.4.1 Initializing the Static Context](#))
21. The [statically known default collection type](#)^{XP30} is [implementation-defined](#). (See [5.4.1 Initializing the Static Context](#))
22. Implementations may provide user options that relax the requirement for the [doc](#)^{FO30} and [collection](#)^{FO30} functions (and therefore, by implication, the [document](#) function) to return stable results. The manner in which such user options are provided, if at all, is [implementation-defined](#). (See [5.4.3 Initializing the Dynamic Context](#))
23. The implicit timezone for a transformation is implementation-defined. (See [5.4.3.2 Other Components of the XPath Dynamic Context](#))
24. The [default collection](#)^{XP30} is [implementation-defined](#). (See [5.4.3.2 Other Components of the XPath Dynamic Context](#))
25. The availability of dynamic context information within [extension functions](#) is [implementation-defined](#). (See [5.4.4 Additional Dynamic Context Components used by XSLT](#))
26. The default values for the warning-on-no-match and warning-on-multiple-match attributes of [xsl:mode](#) are [implementation-defined](#). (See [6.6.1 Declaring Modes](#))
27. The form of any warnings output when there is no matching template rule, or when there are multiple matching template rules, is [implementation-defined](#). (See [6.6.1 Declaring Modes](#))
28. Streamed processing may be initiated by invoking the transformation with an [initial mode](#) declared as streamable, while supplying the [initial match selection](#) (in an [implementation-defined](#) way) as a streamed document. (See [6.6.4 Streamable Templates](#))
29. The mechanism by which the caller supplies a value for a [stylesheet parameter](#) is [implementation-defined](#). (See [9.5 Global Variables and Parameters](#))
30. The set of extension functions available in the static context for the target expression of [xsl:evaluate](#) is [implementation-defined](#). (See [10.4.1 Static context for the target expression](#))
31. If an xml:id attribute that has not been subjected to attribute value normalization is copied from a source tree to a result tree, it is implementation-defined whether attribute value normalization will be applied during the copy process. (See [11.9.1 Shallow Copy](#))
32. The numbering sequences supported by the [xsl:number](#) instructions, beyond those

- defined in this specification, are [implementation-defined](#). (See [12.4 Number to String Conversion Attributes](#))
33. There **may** be implementation-defined upper bounds on the numbers that can be formatted by [xsl:number](#) using any particular numbering sequence. (See [12.4 Number to String Conversion Attributes](#))
 34. The set of languages for which numbering is supported by [xsl:number](#), and the method of choosing a default language, are implementation-defined. (See [12.4 Number to String Conversion Attributes](#))
 35. With [xsl:number](#), it is [implementation-defined](#) what combinations of values of the format token, the language, and the ordinal attribute are supported. (See [12.4 Number to String Conversion Attributes](#))
 36. If the `data-type` attribute of the [xsl:sort](#) element has a value other than `text` or `number`, the effect is implementation-defined. (See [13.1.2 Comparing Sort Key Values](#))
 37. The facilities for defining collations and allocating URIs to identify them are largely implementation-defined. (See [13.1.3 Sorting Using Collations](#))
 38. The algorithm used by [xsl:sort](#) to locate a collation, given the values of the `lang` and `case-order` attributes, is implementation-defined. (See [13.1.3 Sorting Using Collations](#))
 39. If none of the `collation`, `lang`, or `case-order` attributes is present (on [xsl:sort](#)), the collation is chosen in an [implementation-defined](#) way. (See [13.1.3 Sorting Using Collations](#))
 40. When using the family of URIs that invoke the Unicode Collation Algorithm, the effect of supplying a query keyword or value not defined in this specification is [implementation-defined](#). The defaults for query keywords are also implementation-defined unless otherwise stated. (See [13.4 The Unicode Collation Algorithm](#))
 41. The `posture` and `sweep` of an [extension instruction](#) are [implementation-defined](#). (See [19.8.4.2 Streamability of extension instructions](#))
 42. The `posture` and `sweep` of a call to an [extension function](#) are [implementation-defined](#). (See [19.8.7.13 Streamability of Function Calls](#))
 43. The `posture` and `sweep` of a NamedFunctionRef referring to an [extension function](#) are [implementation-defined](#). (See [19.8.7.14 Streamability of Named Function References](#))
 44. The set of media types recognized by the processor, for the purpose of interpreting fragment identifiers in URI references passed to the [document](#) function, is implementation-defined. (See [20.1 fn:document](#))
 45. The values returned by the [system-property](#) function, and the names of the additional properties that are recognized, are implementation-defined. (See [20.3.4 fn:system-property](#))
 46. The destination and formatting of messages written using the [xsl:message](#) instruction are [implementation-defined](#). (See [22.1 Messages](#))
 47. The detail of any external mechanism allowing a processor to disable checking of assertions is [implementation-defined](#). (See [22.2 Assertions](#))
 48. This specification does not define any mechanism for creating or binding implementations of [extension instructions](#) or [extension functions](#), and it is not **required** that implementations support any such mechanism. Such mechanisms, if they exist, are [implementation-defined](#). (See [23 Extensibility and Fallback](#))
 49. The effect of an extension function returning a string containing characters that are not permitted in XML is implementation-defined. (See [23.1.2 Calling Extension Functions](#))
 50. The way in which external objects are represented in the type system is

- implementation-defined. (See [23.1.3 External Objects](#))
51. The way in which the results of the transformation are delivered to an application is implementation-defined. (See [24 Transformation Results](#))
 52. There **may** be [implementation-defined](#) restrictions on the form of absolute URI that may be used in the href attribute of the [xsl:result-document](#) instruction. (See [24.1 Creating Secondary Results](#))
 53. Implementations **may** provide additional mechanisms allowing users to define the way in which [final result trees](#) are processed. (See [24.1 Creating Secondary Results](#))
 54. If serialization is supported, then the location to which a [final result tree](#) is serialized is implementation-defined, subject to the constraint that relative URI references used to reference one tree from another remain valid. (See [25 Serialization](#))
 55. The default value of the [encoding](#) attribute of the [xsl:output](#) element is implementation-defined. (See [25 Serialization](#))
 56. It is implementation-defined which versions of XML, HTML, and XHTML are supported in the [version](#) attribute of the [xsl:output](#) declaration. (See [25 Serialization](#))
 57. The default value of the [byte-order-mark](#) serialization parameter is implementation-defined in the case of UTF-8 encoding. (See [25 Serialization](#))
 58. It is implementation-defined whether, and under what circumstances, disabling output escaping is supported. (See [25.2 Disabling Output Escaping](#))
 59. It is [implementation-defined](#) whether (and if so how) an XSLT 3.0 processor is able to work with versions of XPath later than XPath 3.0. (See [26 Conformance](#))
 60. It is [implementation-defined](#) whether (and if so how) an XSLT 3.0 processor is able to work with versions of [\[XSLT and XQuery Serialization\]](#) later than 3.0. (See [26.3 Serialization Feature](#))

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