**X-Group Methodology:** See *Extraction Group Research Methodology.*

**X-Machine**
A deterministic stream X-machine is an 8-tuple \((\Sigma, \Gamma, Q, M, \Phi, F, q_0, m_0)\), where \(\Sigma\), \(\Gamma\) is the input and output finite alphabet, respectively; \(Q\) is the finite set of states; \(M\) is the (possibly) infinite set called memory; \(\Phi\) is the type of the machine, that is, a finite set of partial functions \(\phi\) that map an input and a memory state to an output and a new memory state; \(\phi: \Sigma \times M \rightarrow \Gamma \times M\); \(F\) is the next state partial function that, given a state and a function from the type \(\Phi\), denotes the next state—\(F\) is often described as a state transition diagram, \(F: Q \times \Phi \rightarrow Q\); \(q_0\) and \(m_0\) are the initial state and memory, respectively. (Kefalas et al., 2005)

**XBRL:** See *Extensible Business Reporting Language.*

**XMI:** See *Extensible Markup Language Metadata Interchange.*

**XML:** See *Extensible Markup Language.*

**XML Content Analysis Mining:** See *Extensible Markup Language Content Analysis Mining.*

**XML Document:** See *Extensible Markup Language Document.*

**XML Interstructure Mining:** See *Extensible Markup Language Interstructure Mining.*

**XML Mining:** See *Extensible Markup Language Mining.*

**XML Rewrite:** See *Extensible Markup Language Rewrite.*

**XML Schema:** See *Extensible Markup Language Schema.*

**XML Structural Change:** See *Extensible Markup Language Structural Change.*

**XML Structural Clarification Mining:** See *Extensible Markup Language Clarification Mining.*

**XMLDB:** See *Extensible Markup Language Database.*

**XPath**
1: A language designed to access the different elements of an XML document. (de Campos et al., 2005) 2: A language for addressing parts of an XML document. It is used together with XSLT and XPointer. (Goh & Kinshuk, 2005)

**X.509 and PKI**
An X.509 certificate is a standardized data structure for proving the ownership of a public cryptographic key with a cryptographic signature of a trusted third party, a certification authority (CA). A public key infrastructure (PKI) is hardware, software, people, policies, and procedures needed to issue, manage, store, distribute, and revoke X.509 certificates. (Pulkkis et al., 2005a)

**Xpointer**
The XML Pointer Language that defines an addressing scheme for individual parts of an XML document. (Goh & Kinshuk, 2005)

**XQuery**
An XML query language, the specification of which is defined by the W3C, the authorities body behind XML. It can access XML databases and documents, and offer different querying capabilities. (Gaffar & Seffah, 2005)

**XSL**
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