

This work deals with possibilities of integrity constraints validation in XML documents. From this point of view we review well-known schema languages DTD, XML Schema and Relax NG. Next we present more specialized languages Schematron and CliX. The purpose of this work is to design and implement new language Incox (Integrity Constraints in XML). Incox is based on using of first-order logic and XPath language. It draws inspiration from Clix, but it also brings new features such as optional syntax (natural language as well as XML), constants or extended quantifiers to help specify required degree of truth more precisely.