Family Tree of Schema Languages for Markup Languages

Shadowed packages show viable schema languages as at late 1999. The thick lines should packages expected to be viable after 2000.

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Related languages or approaches not shown: MGML (Tim Bray), XML Notation Schemas (Jelliffe), MCF, RDF Schemas, UML, Larch, Forest Automata (Murata)

Basic abstractions:
- Supertype/subtype or inheritance
- Grammatical rules
- Assertions and patterns

Architectural Forms (ISO)
Lexical Types (ISO)
Element Definition Documents (Adobe nee Frame)
Property Sets and GROVES (ISO)

Express (ISO)
Element Definition Documents (Adobe nee Frame)
XML DTDs (ISO)

Express in XML (ISO)
XML-Data
XML DTDs (W3C)

Basic abstraction:
- Assertions and patterns

XDR: XML-Data Reduced (Microsoft)
DDML (nee Xschema)

Schematron (Rick Jelliffe)

Related languages or approaches not shown:
- MGML (Tim Bray)
- XML Notation Schemas (Jelliffe)
- MCF, RDF Schemas, UML, Larch, Forest Automata (Murata)
- XML-Data
- XML Schema (W3C)
- SOX 1.0
- DCD
- SOX 2.0

Basic abstraction:
- Grammatical rules

Express, STEP, (ISO)

1986
1992
1997
1998
1999
2000