Class	Property	Rule
Instance of a particular element type (derived from element)	Generic identifier	The SGML generic identifier specified for this element type
	Attribute information	A set of attributes as specified in the element type, including one for each required attribute,
	Content	Content permitted for elements of this type, accounting for inherited exceptions.
Element structure (instance of a document type)	Generic identifier	The document type name
	Attribute information	As for instance of a particular element type
	Content	

Class	Property	Rule
Attribute Type	Name	An SGML name
	Declared Value	An SGML declared value
	Content reference indicator	Indicates whether this is a content reference
	Fixed attribute indicator	Indicates whether this is a fixed attribute
	Fixed value	Value of a fixed attribute
	Required attribute indicator	Indicates whether this is a required attribute
	Class of attributes of this type	Derived from the class of Attributes; enforces SGML rules for allowed values of attributes
Element Type	Name	An SGML generic identifier
	Allowable content	Content model or declared value
	Attribute definition list	A sequence of attribute types
	Class of elements of this type	Derived from the class of Elements; enforces SGML rules for attributes and content
Document Type	Document type name	An SGML generic identifier
	Element types	Set of element types
	Class of documents of this type	Derived from the class of Elements and the value of the Element's Name must be the same as the document type name

A document type definition defines particular element types:

Class	Property	Rule
Instance of a particular attribute type (derived from attribute)	Name	The name exhibited by the attribute type
	Value	A string interpreted according to Clause 7.9.3 of ISO 8879 that satisfies the declared value exhibited by the attribute type

ISO/IEC JTC1/SC18/WG8 N1711

Information Described by SGML Markup
("SGML Information Set")

Part I: Element Structure (Incomplete)

This paper is an early step toward defining a class-object model for SGML element structure. The model is presented using vocabulary defined in an accompanying paper (ISO/IEC JTC1/SC18/WG8/N1710). It is expected that this model will be refined and elaborated over time. As of this writing, the effort is not complete. In any case, it, does not represent the only possible approach. This draft is intended to initiate discussion; later versions will actually define the element structure. Note that the model does not account for SGML syntax (the character strings used to represent a particular element structure), entity structure, or marked section structure.

The model begins by identifying classes defined in ISO 8879. Some of these classes are listed in the following table, where the first column contains a name usually given to instances of the class:

Class	Property	Rule
Attribute	Name	An SGML name
	Value	A character string, or an indication that no value was specified
Element	Generic identifier	An SGML generic identifier
	Attribute information	A set of attributes
	Content	A sequence of data characters, processing instructions, elements, and references to subdocument, specific character data, or external data entities. No element appears more than once in the sequence of elements formed by listing the original element, the elements in its content, the elements in their content, and so on.