

20. Structured Markup Processing Tools

Python supports a variety of modules to work with various forms of structured data markup. This includes modules to work with the Standard Generalized Markup Language (SGML) and the Hypertext Markup Language (HTML), and several interfaces for working with the Extensible Markup Language (XML).

- [20.1. `html` — HyperText Markup Language support](#)
- [20.2. `html.parser` — Simple HTML and XHTML parser](#)
 - [20.2.1. Example HTML Parser Application](#)
 - [20.2.2. `HTMLParser` Methods](#)
 - [20.2.3. Examples](#)
- [20.3. `html.entities` — Definitions of HTML general entities](#)
- [20.4. XML Processing Modules](#)
 - [20.4.1. XML vulnerabilities](#)
 - [20.4.2. The `defusedxml` and `defusedexpat` Packages](#)
- [20.5. `xml.etree.ElementTree` — The `ElementTree` XML API](#)
 - [20.5.1. Tutorial](#)
 - [20.5.1.1. XML tree and elements](#)
 - [20.5.1.2. Parsing XML](#)
 - [20.5.1.3. Pull API for non-blocking parsing](#)
 - [20.5.1.4. Finding interesting elements](#)
 - [20.5.1.5. Modifying an XML File](#)
 - [20.5.1.6. Building XML documents](#)
 - [20.5.1.7. Parsing XML with Namespaces](#)
 - [20.5.1.8. Additional resources](#)
 - [20.5.2. XPath support](#)
 - [20.5.2.1. Example](#)
 - [20.5.2.2. Supported XPath syntax](#)
 - [20.5.3. Reference](#)
 - [20.5.3.1. Functions](#)
 - [20.5.3.2. Element Objects](#)
 - [20.5.3.3. `ElementTree` Objects](#)
 - [20.5.3.4. `QName` Objects](#)
 - [20.5.3.5. `TreeBuilder` Objects](#)
 - [20.5.3.6. `XMLParser` Objects](#)
 - [20.5.3.7. `XMLPullParser` Objects](#)
 - [20.5.3.8. Exceptions](#)
- [20.6. `xml.dom` — The Document Object Model API](#)
 - [20.6.1. Module Contents](#)
 - [20.6.2. Objects in the DOM](#)
 - [20.6.2.1. `DOMImplementation` Objects](#)
 - [20.6.2.2. Node Objects](#)
 - [20.6.2.3. `NodeList` Objects](#)

- 20.6.2.4. `DocumentType` Objects
 - 20.6.2.5. `Document` Objects
 - 20.6.2.6. `Element` Objects
 - 20.6.2.7. `Attr` Objects
 - 20.6.2.8. `NamedNodeMap` Objects
 - 20.6.2.9. `Comment` Objects
 - 20.6.2.10. `Text` and `CDATASection` Objects
 - 20.6.2.11. `ProcessingInstruction` Objects
 - 20.6.2.12. Exceptions
- 20.6.3. Conformance
 - 20.6.3.1. Type Mapping
 - 20.6.3.2. Accessor Methods
- 20.7. `xml.dom.minidom` — Minimal DOM implementation
 - 20.7.1. `DOM` Objects
 - 20.7.2. `DOM` Example
 - 20.7.3. `minidom` and the `DOM` standard
- 20.8. `xml.dom.pulldom` — Support for building partial `DOM` trees
 - 20.8.1. `DOMEventStream` Objects
- 20.9. `xml.sax` — Support for `SAX2` parsers
 - 20.9.1. `SAXException` Objects
- 20.10. `xml.sax.handler` — Base classes for `SAX` handlers
 - 20.10.1. `ContentHandler` Objects
 - 20.10.2. `DTDHandler` Objects
 - 20.10.3. `EntityResolver` Objects
 - 20.10.4. `ErrorHandler` Objects
- 20.11. `xml.sax.saxutils` — `SAX` Utilities
- 20.12. `xml.sax.xmlreader` — Interface for `XML` parsers
 - 20.12.1. `XMLReader` Objects
 - 20.12.2. `IncrementalParser` Objects
 - 20.12.3. `Locator` Objects
 - 20.12.4. `InputSource` Objects
 - 20.12.5. The `Attributes` Interface
 - 20.12.6. The `AttributesNS` Interface
- 20.13. `xml.parsers.expat` — Fast `XML` parsing using `Expat`
 - 20.13.1. `XMLParser` Objects
 - 20.13.2. `ExpatError` Exceptions
 - 20.13.3. Example
 - 20.13.4. Content Model Descriptions
 - 20.13.5. `Expat` error constants