

XML Example

```
<?xml version='1.0' encoding='ISO-8859-2' ?>
<!-- first XML example -->
<message id="123456">
  <text>Hello World!</text>
</message>
```

- **version:** The version number of the XML document.
- **encoding:** Character encoding - 'ISO-8859-2' refers to Latin-2 encoding.
- **comments:** Comments can be placed between <!-- -->, and they can span multiple lines.
- **tagging data:** Data is labeled using **tags**. For example, <name></name>, where <name> is the opening tag and </name> is the closing tag. If the tag doesn't contain data, the closing can be simplified like <name />.
- In this example, "Hello World!" is stored in the <text> tag.
- An XML file contains a **root element** (or **root tag**) to which all other elements belong, in this case <message>. Elements that contain other elements are called **parent elements**, and the elements within them are called **child elements**.
- Elements can contain an unlimited number of **attributes** (properties), such as the id attribute = "123456". Attribute names are not limited in length, but every attribute name must start with a letter.

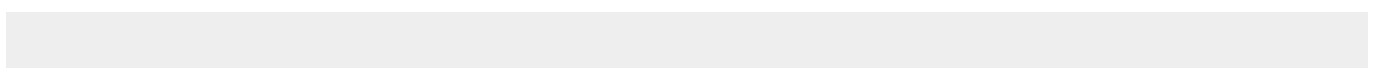
Special Characters in XML

In XML, special characters are represented as follows:

- & - &
- < - <
- > - >
- ' - '
- " - "

CDATA Section

A **CDATA** section can contain embedded data, such as the following example:



```
<script language="JavaScript" type="text/javascript">
  <![CDATA[
    function sayHello() {
      document.write("Hello World!");
    }
  ]]>
</script>
```

XML Namespaces

Since creators of XML documents use their own vocabulary to build XML, **name conflicts** are possible. For example, the `<student>` tag might be too generic. Using **namespace prefixes**, the element can be specialized:

```
<miskolc:student>Johj Smith</miskolc:student>
```

Here, the qualified element is `student` and the namespace prefix is `miskolc`.

```
<?xml version="1.0" encoding="UTF-8"?>
<data xmlns:unimiskolc="www.uni-miskolc.hu">
  <unimiskolc:file filename="aula.jpg">
    <unimiskolc:description>Photo of the university
hall</unimiskolc:description>
    <unimiskolc:size width="200" height="100" />
  </unimiskolc:file>
</adatok>
```

In this example, the namespace prefix `unimiskolc` is defined to avoid name conflicts, and it links the data to the www.uni-miskolc.hu namespace.

From:

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Last update: 2024/10/07 17:25

