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- Hello, World! (XSLT)

The following example shows a simple but complete XML document transformed by an XSLT style sheet. The source XML document, **hello.xml**, contains a "Hello, World!" greeting from "An XSLT Programmer".

XML (hello.xml)

XML

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```
<?xml version="1.0"?>
<?xml-stylesheet type="text/xsl" href="hello.xsl"?>
<hello-world>   <greeter>An XSLT Programmer</greeter>   </g
```

The source document contains the `<?xml-stylesheet ...?>` processing instruction to link it to the XSLT style sheet, **hello.xsl**. The XSLT file contains instructions for transforming the source document into an HTML document.

XSLT (hello.xsl)

XML

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```
<?xml version="1.0"?>
<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Tran
  <xsl:template match="/hello-world">
    <HTML>
      <HEAD>
        <TITLE></TITLE>
      </HEAD>
      <BODY>
        <H1>
          <xsl:value-of select="greeting"/>
        </H1>
        <xsl:apply-templates select="greeter"/>
      </BODY>
    </HTML>
  </xsl:template>
  <xsl:template match="greeter">
    <DIV>from <I><xsl:value-of select="."/></I></DIV>
  </xsl:template>
</xsl:stylesheet>
```

The effect of the transformation is to display the "Hello, World!" message on a Web page, followed by the signature of the greeter. This XSLT style sheet illustrates the basic features required of every XSLT style sheet:

- An XSLT style sheet typically starts with the `<?xml version="1.0"?>` processing instruction, declaring it as an XML file.
- The root element is `<xsl:stylesheet>`. The `version` attribute specifies the version of the XSLT specification. The `xmlns:xsl` attribute allows you to define a namespace alias (`xsl`) for use with every XSLT element in the document (e.g., `<xsl:value-of>` instead of simply `<value-of>`).
- The content of this root element consists of a set of template rules declared within the `<xsl:template>` elements. These rules specify how various elements in the source XML document are to be transformed into result elements.

The example above contains two simple template-rules. Together, they transform the contents in the source XML document into an HTML page. More complex XSLT style sheets contain either more template rules or template rules that are