

Lecture 1: 利用 XSL 將 XML 檔轉成其他格式的檔案

(利用 XSL 將 XML 檔轉成 XML, HTML, Text, 及 RTF 格式。)

觀察 #0500 檔

一、觀察 myXmlXSL_0500.xml 檔。

(資料較多， Show it now)

二、使用 myXSLT_0500.xsl 檔。

(demo)

利用 output 的屬性 method: `<xsl:output method="html" />` 可以將 XML 檔轉成 HTML 檔。

利用 output 的屬性 method: `<xsl:output method="text" />` 可以將 XML 檔轉成 HTML 檔。

三、觀察 myXmlXSL_0502.xml 檔。

(資料相同， Show it now)

四、使用 myXSLT_0502.xsl 檔。

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- my first XSLT file myXSLT_0502.xsl -->

<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform" >
  <xsl:output method="text" indent="yes" />
  <xsl:strip-space elements="*" />

  <xsl:template match="/">{\rtf1\ansi\deff0{ \fonttbl { \f0\fnl\fcharset0 Courier New;}}
  \viewkind4 \uc1\pard\lang1033\b\f0\fs36 The first RTF Transform \par\b0\fs20
  Author\tab Title\tab Price\tab \par
    <xsl:apply-templates select="inventory" />\par}
</xsl:template>

<xsl:template match="book">
  <xsl:value-of select="author" /> \tab
```

```
<xsl:value-of select="title" /> \tab  
<xsl:value-of select="price" /> \tab \par  
</xsl:template>
```

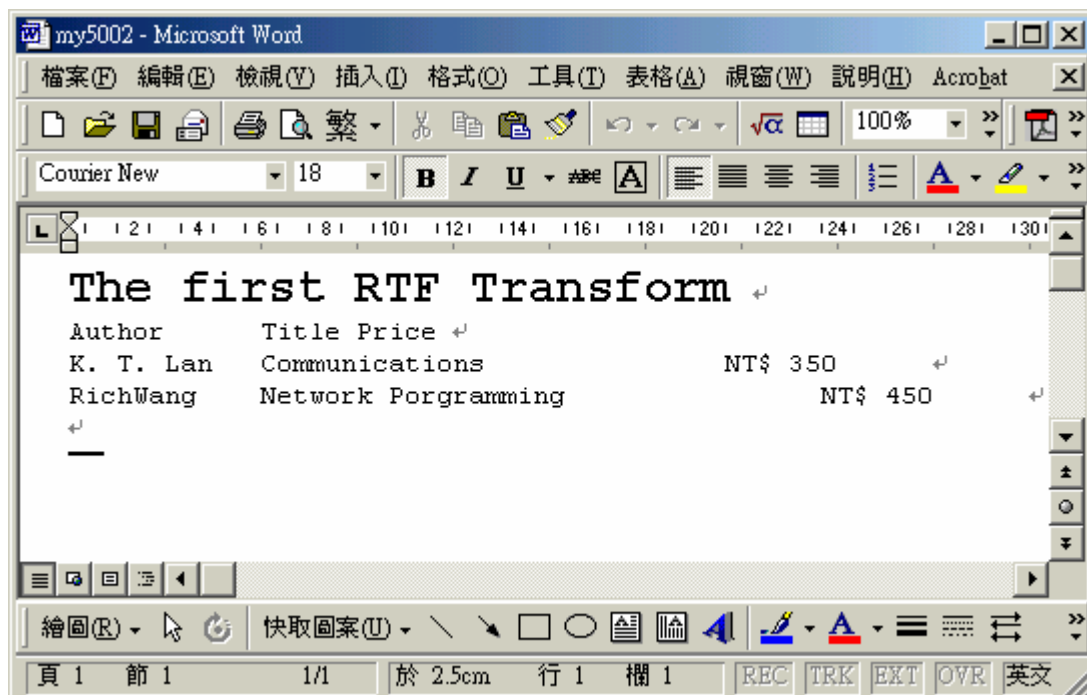
```
</xsl:stylesheet>
```

利用 msxsl.exe 可將 myXmlXsSL_0601.xml 轉成 myXmlFO_0601.fo



```
命令提示字元  
O_0601.fo  
C:\ktlan\Downloads\XSL-FO\temp>msxsl myXmlXsl_0502.xml myXslt_0502.xsl -o myXmlFO_0502.rtf  
C:\ktlan\Downloads\XSL-FO\temp>
```

將 myXmlXSL_0502.xml & myXSLT_0502.xsl 轉換成 RTF 檔。



Lecture 2: 利用 XSL 將 XML 檔轉成其他格式的檔案

(利用 XSL 將 XML 檔 轉成 XSL-FO 及 PDF 格式。)

觀察 #0601 檔

一、觀察 myXmlXSL_0601.xml 檔。

(資料 較多， Show it now)

二、使用 myXSLT_0601.xsl 檔。

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- my XSLT file myXSLT_0601.xsl -->

<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
                xmlns:fo="http://www.w3.org/1999/XSL/Format">
<xsl:template match="/">
  <fo:root >
    <fo:layout-master-set>
      <fo:simple-page-master master-name="myPage" page-height="400mm"
        page-width="300mm" margin-top="10mm" margin-bottom="10mm"
        margin-left="20mm" margin-right="20mm">
        <fo:region-body margin-top="0mm" margin-bottom="10mm" />
        <fo:region-after extent="0mm" />
      </fo:simple-page-master>
    </fo:layout-master-set>

    <fo:page-sequence master-reference="myPage">
      <fo:flow flow-name="xsl-region-body">
        <fo:block font-size="36pt" color="blue">
          [XSL consists of two part: Transform and Format]
        </fo:block>

        <xsl:apply-templates select="inventory" />

      </fo:flow>
    </fo:page-sequence>
  </fo:root>
</xsl:template>

<xsl:template match="book">
  <fo:block font-size="28pt" font-style="italic" >
    <xsl:value-of select="author" />
    <xsl:value-of select="title" />
    <xsl:value-of select="price" />
  </fo:block>
</xsl:template>
</xsl:stylesheet>
```

利用 msxsl.exe 可將 myXmlXsSL_0601.xml 轉成 myXmlFO_0601.fo



```
命令提示字元
Missing source filename.
C:\ktlan\Downloads\XSL-FO\temp>msxsl myXmlXsL_0601.xml myXsL_0601.xsl -o myXmlFO_0601.fo
C:\ktlan\Downloads\XSL-FO\temp>
```

其結果(myXmlFO_0601.fo)如下：

```
<?xml version="1.0" encoding="UTF-16"?>
<fo:root xmlns:fo="http://www.w3.org/1999/XSL/Format">
  <fo:layout-master-set>
    <fo:simple-page-master master-name="myPage" page-height="400mm"
      page-width="300mm" margin-top="10mm" margin-bottom="10mm"
      margin-left="20mm" margin-right="20mm">
      <fo:region-body margin-top="0mm" margin-bottom="10mm" />
      <fo:region-after extent="0mm" />
    </fo:simple-page-master>
  </fo:layout-master-set>
  <fo:page-sequence master-reference="myPage">
    <fo:flow flow-name="xsl-region-body">
      <fo:block font-size="36pt" color="blue">
        [XSL consists of two part: Transform and Format] </fo:block>
      <fo:block font-size="28pt" font-style="italic">
        K. T. LanCommunicationsNT$ 350</fo:block>
      <fo:block font-size="28pt" font-style="italic">
        RichWangNetwork PorgrammingNT$ 450 </fo:block>
    </fo:flow>
  </fo:page-sequence>
</fo:root>
```

使用轉換程式 Antenna XSL Formatter v3.0

```
C:\ 命令提示字元
3686
%%EOFXSLCmd :Formatting finished normally

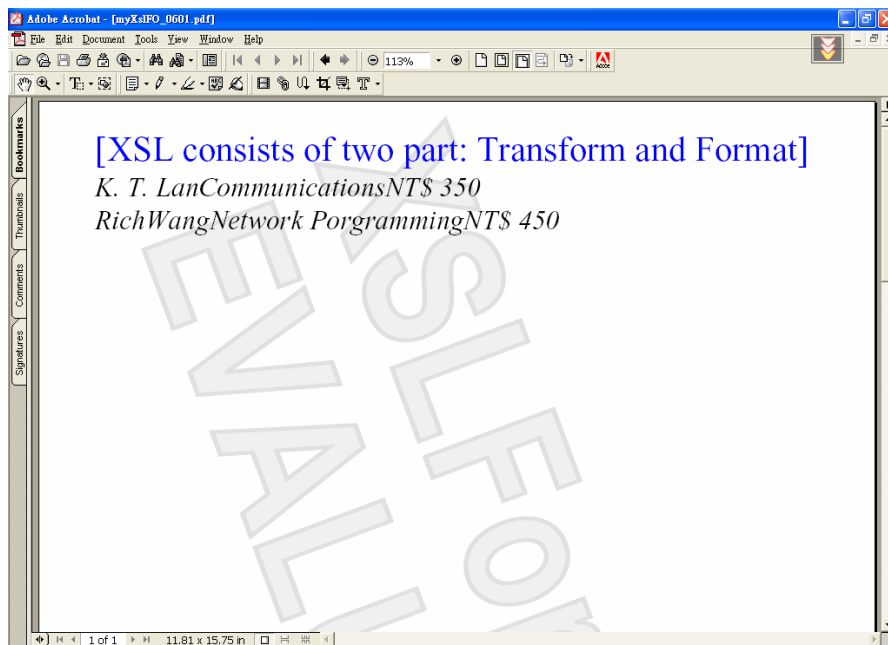
C:\ktlan\Downloads\XSL-FO>xslcmd -d "myxmlxsl_0601.xml" -s "myxslt_0601.xsl" -o
myXslFO_0601.pdf
XSLCmd :XSL Formatter U3.0 Copyright(c) 2000-2003 Antenna House, Inc.

-----
This is an EVALUATION version.
Prohibits the use of evaluation version
for the real business activity.
-----

XSLCmd :Formatting finished normally

C:\ktlan\Downloads\XSL-FO>
```

檢視 myXSLFO_0601.pdf 檔案：



sample:

```
<?xml version="1.0" encoding="UTF-8" ?>
<fo:root xmlns:fo="http://www.w3.org/1999/XSL/Format">
  <fo:layout-master-set>
    <fo:simple-page-master page-height="279mm" page-width="216mm"
      margin-top="10mm" margin-left="20mm"
      margin-right="20mm" margin-bottom="10mm"
      master-name="PageMaster">
      <fo:region-before border-style="solid" border-width="medium" extent="16mm"/>
      <fo:region-after border-style="dotted" border-width="medium" extent="16mm"/>
      <fo:region-start border-style="solid" border-width="thin" extent="8mm"
        reference-orientation="270"/>
      <fo:region-end border-style="solid" border-width="thin" extent="8mm"
        reference-orientation="270"/>
      <fo:region-body border-style="dashed" border-width="thick" margin-top="20mm"
        margin-left="10mm" margin-right="10mm" margin-bottom="20mm"/>
    </fo:simple-page-master>
  </fo:layout-master-set>
  <fo:page-sequence initial-page-number="1" master-reference="PageMaster">
    <fo:static-content flow-name="xsl-region-start">
      <fo:block font-family="sans-serif" font-size="15pt">left</fo:block>
    </fo:static-content>
    <fo:static-content flow-name="xsl-region-end">
      <fo:block font-family="sans-serif" font-size="15pt">right</fo:block>
    </fo:static-content>
    <fo:static-content flow-name="xsl-region-before">
      <fo:block font-size="7pt">
        <fo:external-graphic src="url('img/antenna-en.png')" content-height="12mm"/>
        XSL FO Sample Copyright(C) 2002 Antenna House, Inc. All rights reserved.
      </fo:block>
    </fo:static-content>
    <fo:static-content flow-name="xsl-region-after">
      <fo:block text-align="center" font-family="sans-serif" font-size="15pt">bottom</fo:block>
    </fo:static-content>
    <fo:flow flow-name="xsl-region-body">
      <fo:block text-indent="1em" font-family="sans-serif" font-size="20pt" font-weight="bold">
```

```
background-color="#EEEEEE" line-height="20mm">
```

Explaining each region in a page

```
</fo:block>
```

```
<fo:block></fo:block>
```

```
<fo:block padding-start="3mm" padding-end="3mm">
```

```
<fo:block>
```

One page consists of five regions in XSL-FO.

```
</fo:block>
```

```
<fo:block></fo:block>
```

```
<fo:block><fo:inline-container font-weight="bold">
```

```
<fo:block>1. region-start</fo:block></fo:inline-container>
```

Region of the left side where 'left' is written. The length from the left edge of the paper to the left edge of the region-start can be specified by the margin-left property. The width of region-start can be specified by the extent property.

```
</fo:block>
```

```
<fo:block></fo:block>
```

```
<fo:block><fo:inline-container font-weight="bold">
```

```
<fo:block>2. region-end</fo:block> </fo:inline-container>
```

Region of the right side where 'right' is written. The length from the right edge of the paper to the right edge of the region-end can be specified by the margin-end property. The width of region-end can be specified by the extent property.

```
</fo:block>
```

```
<fo:block></fo:block>
```

```
<fo:block><fo:inline-container font-weight="bold">
```

```
<fo:block>3. region-before </fo:block></fo:inline-container>
```

The upper region where the AntennaHouse logo is placed. The length from the top edge of the paper to the top edge of the region-before can be specified by the margin-top property. The depth of region-before can be specified by the extent property. This will be the most commonly used to create headers.

```
</fo:block>
```

```
<fo:block></fo:block>
```

```
<fo:block><fo:inline-container font-weight="bold">
```

```
<fo:block>4. region-after</fo:block></fo:inline-container>
```

The lower region where 'bottom' is placed. The length from the bottom edge of the paper to the bottom edge of the region-before can be specified by the margin-bottom property. The depth of region-after can be specified by the extent property. This will be the most commonly used to create footers.

```
</fo:block>
```

```
<fo:block></fo:block>  
<fo:block><fo:inline-container font-weight="bold">  
<fo:block>5. region-body</fo:block></fo:inline-container>  
    The middle region of the page where the text is placed.  
</fo:block>  
<fo:block></fo:block>  
<fo:block>
```

As the example shows, it is possible to specify a boader line
in each region with different types and weight of the line.

```
</fo:block>  
</fo:block>  
</fo:flow>  
</fo:page-sequence>  
</fo:root>
```