

Key to XSLT Exercises 6,7,10

= Homework week 9/10

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Please note that in what follows, only XPath-expressions are given and their peculiarities explained

- It is assumed that you are aware of the structure of the XML source documents (poem.xml, Wilde-Windermere.xml and Collection.xml)
- It is assumed that you could build the basics of a working XSLT-stylesheet yourself
- And it is assumed that you would be able to generate the HTML result tree yourself as well

Colours are reflecting Oxygen's presentation with correct syntax



6 – poem

```
<xsl:for-each select="body/linegroup">
  <p>
    <xsl:for-each select="line">
      <xsl:value-of select="." />
      <br/>
    </xsl:for-each>
  </p>
</xsl:for-each>
```

Create a paragraph for each linegroup...

... and within each paragraph, print all lines, add line breaks

7.1

all parts spoken by Lord Darlington

```
<xsl:for-each select="text/body/div1/sp [speaker  
= 'LORD WINDERMERE'] ">  
    <xsl:value-of select="." />  
</xsl:for-each>
```

Note that the string for the criterion is in single quotes.

Note that the elements within the criterion do not count towards the context-setting; the context of this for-each loop is <sp>.

7.3

stage directions for character entrance

```
<xsl:for-each select="//stage[@type='entrance']">  
  <xsl:value-of select="." />  
</xsl:for-each>
```

This Xpath expression finds the following nodeset, anywhere it appears in the XML source document.

The distinction between the different directions is given in the attribute @type:
<stage type="entrance"> in the source document.

7.6 – number of parts by Lady Windermere in the first act

```
<xsl:for-each select="text/body/div1[@n='1']">  
  <xsl:value-of select=  
    "count(sp[speaker='LADY WINDERMERE'])" />  
</xsl:for-each>
```

Count function:
returns the number of
nodes (elements)
specified in round
brackets. See XSLT
Tutorial Section 9:
Navigation.

Note that you can
apply criteria
within functions.

Note that all acts in this XML
are contained in <div1>s. You
have to find the act numbered
1 (@n="1").

7.6 – number of parts by Lady Windermere in the first act

```
<xsl:value-of select="count(text/body/div1  
[@n = '1']/sp[speaker = 'LADY WINDERMERE'])"/>
```

Alternatively, you can also combine the two criteria in one Xpath expression. Note the double sets of square brackets.

10 – letter collection

```
<xsl:text>This collection contains </xsl:text>
<xsl:value-of select="count(body/letter)"/>
<xsl:text>, of which </xsl:text>
<xsl:value-of
select="count(body/letter[language='English'])"/>
<xsl:text> in English, and </xsl:text>
<xsl:value-of select="count(body/letter[date &lt;
1900])"/>
<xsl:text> from before 1900.</xsl:text>
```

Note the spacing in the
<xsl:text> elements!

Escape
entities.

10 – letter collection

```
<xsl:text>Below, I list the call numbers of all  
letters addressed to A.W. Sijthoff:</xsl:text>  
<ul>  
  <xsl:for-each  
    select="body/letter[recipient='Sijthoff,  
    Albertus Willem']">  
    <li>  
      <xsl:value-of select="callNumber" />  
    </li>  
  </xsl:for-each>  
</ul>
```