Seminar aims

Introduction

XPath

XSL Transformations

XSL in action

XML Queries

XQuery in action

References

Processing of XML Documents, XPath - XSLT - XQuery

Angelo Mario Del Grosso

CNR-ILC
http://ilc.cnr.it/
angelo.delgrosso@ilc.cnr.it

Selezione, Elaborazione e Presentazione di documenti XML-TEI mediante i linguaggi XPath, XSLT e XQuery

.

Istituto di Linguistica Computazionale "A. Zampolli",
11th November 2024

Outline

Seminar aims

Introduction

XPath

XSL Transformations

XSL in action

XML Queries

XQuery in action

References

1 Seminar aims

2 Introduction

3 XPath

4 XSL Transformations

5 XSL in action

6 XML Queries

7 XQuery in action

8 References

Progress status

Seminar aims

Introduction

XPath

XSL Transformations

XSL in action

XML Queries

XQuery in action

References

1 Seminar aims

2 Introduction

3 XPath

4 XSL Transformations

5 XSL in action

6 XML Queries

7 XQuery in action

Seminar aims

Processing of XML Documents, XPath - XSLT - XQuery

A.M. Del Grosso

Seminar aims

Introduction

XPath

XSL Transformations

XSL in action

XML Queries

XQuery in action

References

We talk about

Introduction to processing and visualizing XML documents via **XPATH** and **XSL** languages.

Seminar path

Processing of XML Documents, XPath - XSLT - XQuery

A.M. Del Grosso

Seminar aims

Introduction

XPath

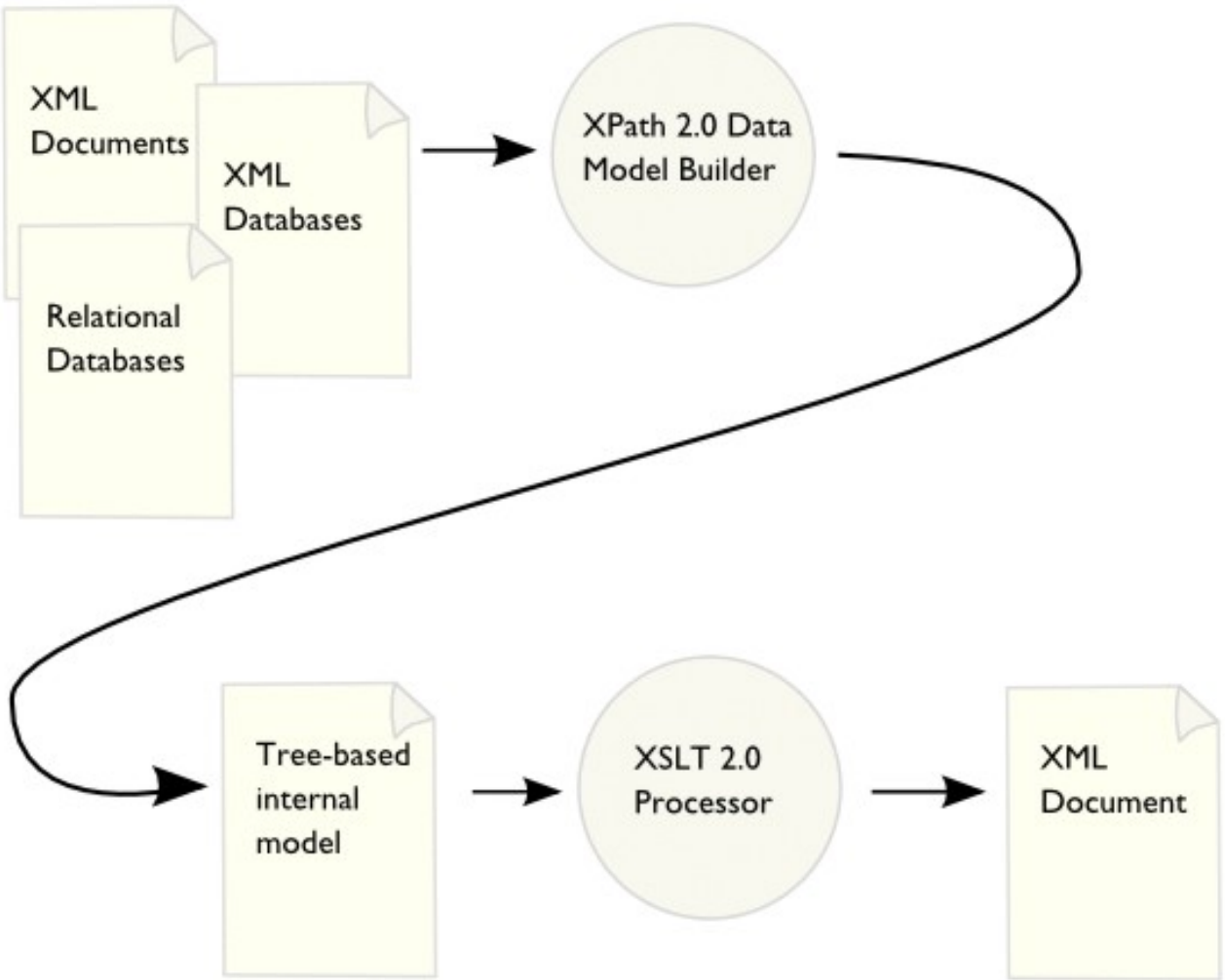
XSL Trans-formations

XSL in action

XML Queries

XQuery in action

References



Progress status

Seminar aims

Introduction

XPath

XSL Transformations

XSL in action

XML Queries

XQuery in action

References

1 Seminar aims

2 Introduction

3 XPath

4 XSL Transformations

5 XSL in action

6 XML Queries

7 XQuery in action

Progress status

Seminar aims

Introduction

XPath

XSL Transformations

XSL in action

XML Queries

XQuery in action

References

1 Seminar aims

2 Introduction

3 XPath

4 XSL Transformations

5 XSL in action

6 XML Queries

7 XQuery in action

Progress status

Seminar aims

Introduction

XPath

XSL Transformations

XSL in action

XML Queries

XQuery in action

References

1 Seminar aims

2 Introduction

3 XPath

4 XSL Transformations

5 XSL in action

6 XML Queries

7 XQuery in action

Processing of XML Documents, XPath - XSLT - XQuery

A.M. Del Grosso

Seminar aims

Introduction

XPath

XSL Transformations

XSL in action

XML Queries

XQuery in action

References

Basics

A transformation expressed in XSLT **describes rules for transforming input data into output data**. The inputs and outputs will all be instances of the XDM data model.

Processing of XML Documents, XPath - XSLT - XQuery

A.M. Del Grosso

Seminar aims

Introduction

XPath

XSL Trans-formations

XSL in action

XML Queries

XQuery in action

References

Basics (cont.)

The input often is an XML document referred to as the **source tree**, and the output is a document referred to as the **result tree**.

Processing of XML Documents, XPath - XSLT - XQuery
A.M. Del Grosso
Seminar aims
Introduction
XPath
XSL Transformations
XSL in action
XML Queries
XQuery in action
References

Basics (cont.)

The transformation is achieved by **a set of template rules**. A template rule associates a pattern, which typically **matches nodes** in the source document, with a **sequence constructor**.

Processing of XML Documents, XPath - XSLT - XQuery

A.M. Del Grosso

Seminar aims

Introduction

XPath

XSL Transformations

XSL in action

XML Queries

XQuery in action

References

Basics (cont.)

The structure of the result trees can be completely different from the structure of the source trees.

XSLT main elements

Processing of XML Documents, XPath - XSLT - XQuery

A.M. Del Grosso

Seminar aims

Introduction

XPath

XSL Transformations

XSL in action

XML Queries

XQuery in action

References

URL to Documentation

- https://xsltdev.com/xslt/xsl-stylesheet/
- https://xsltdev.com/xslt/xsl-template/
- https://xsltdev.com/xslt/xsl-value-of/
- https://xsltdev.com/xslt/xsl-apply-templates/
- https://xsltdev.com/xslt/xsl-for-each/
- https://xsltdev.com/xslt/xsl-if/
- https://xsltdev.com/xslt/xsl-choose/

XSLT main elements

URL to Documentation

- https://xsltdev.com/xslt/xsl-sort/
- https://xsltdev.com/xslt/xsl-variable/
- https://xsltdev.com/xslt/xsl-element/
- https://xsltdev.com/xslt/xsl-attribute/
- https://xsltdev.com/xslt/xsl-key/
- https://xsltdev.com/xslt/xsl-preserve-space/
- https://xsltdev.com/xslt/xsl-strip-space/
- https://xsltdev.com/xslt/xsl-analyze-string/

XSLT main elements

xsl:stylesheet

xsl:stylesheet

The `xsl:stylesheet` element is always the top-level element of an XSLT stylesheet. The name `xsl:transform` may be used as a synonym.

Available in XSLT 1.0 and later versions. Available in all Saxon editions.

- **Content**: *(declarations)*

Attributes

`id?`

id

Used to reference stylesheet modules embedded in a document.

`version`

decimal

Standard attribute that may appear on any XSLT element. Indicates the version of XSLT required by the stylesheet.

https://xsltdev.com/xslt/xsl-stylesheet/

XSLT main elements

xsl:stylesheet


```
<?xml version="1.0" encoding="UTF-8"?>

<xsl:stylesheet version="2.0"
    xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
    

</xsl:stylesheet>
```

https://xsltdev.com/xslt/xsl-stylesheet/

XSLT main elements

xsl:template

Processing of XML Documents, XPath - XSLT - XQuery

A.M. Del Grosso

Seminar aims

Introduction

XPath

XSL Trans-formations

XSL in action

XML Queries

XQuery in action

References

xsl:template

Defines a processing rule for source elements or other nodes of a particular type.

Available in XSLT 1.0 and later versions. Available in all Saxon editions.

- **Category**: declaration
- **Content**: (`xsl:context-item` ?, `xsl:param` *, *sequence-constructor*)
- **Permitted parent elements**: `xsl:package` ; `xsl:stylesheet` ; `xsl:transform` ; `xsl:override`

Attributes ¶

`match?`

pattern

Pattern to identify the type of node to be processed. The most common form of pattern is simply an element name. However, more complex patterns may also be used: the syntax of patterns is given in more detail in XSLT Pattern Syntax. The following examples show some of the possibilities:

https://xsltdev.com/xslt/xsl-template/

XSLT main elements

xsl:template

Processing of XML Documents, XPath - XSLT - XQuery

A.M. Del Grosso

Seminar aims

Introduction

XPath

XSL Trans-formations

XSL in action

XML Queries

XQuery in action

References

```
<?xml version="1.0" encoding="UTF-8"?>

<xsl:stylesheet version="2.0"
    xmlns:xsl="http://www.w3.org/1999/XSL/Transform">

    <xsl:template match="/">

    </xsl:template>

    <xsl:template match="div">

    </xsl:template>

    <xsl:template match="head">

    </xsl:template>

    <xsl:template match="lb">

    </xsl:template>

</xsl:stylesheet>
```

https://xsltdev.com/xslt/xsl-template/

XSLT main elements

xsl:value-of

xsl:value-of

Evaluates an expression as a string, and outputs its value to the current result tree.

Available in XSLT 1.0 and later versions. Available in all Saxon editions.

- **Category**: instruction
- **Content**: *sequence-constructor*
- **Permitted parent elements**: any XSLT element whose content model is *sequence-constructor*; any literal result element

Attributes

`select?`

expression

Identifes the expression. If this is not specified, the value to be output is obtained by evaluating the sequence constructor contained within the `xsl:value-of` element. The full syntax of expressions is outlined in XPath Expression Syntax. Here are some examples of expressions that can be used in the `select` attribute:

https://xsltdev.com/xslt/xsl-value-of/

XSLT main elements

xsl:value-of

Processing of XML Documents, XPath - XSLT - XQuery
A.M. Del Grosso
Seminar aims
Introduction
XPath
XSL Trans-formations
XSL in action
XML Queries
XQuery in action
References

```xml
<xsl:stylesheet version="2.0"
    xmlns:xsl="http://www.w3.org/1999/XSL/Transform">

    <xsl:template match="/">
        <xsl:value-of select="concat('&#10;', normalize-space(descendant::titleStmt/title=>string()))" />
    </xsl:template>

    <xsl:template match="div">
        <xsl:value-of select="@type" />
    </xsl:template>

    <xsl:template match="head">
        <xsl:value-of select="." />
    </xsl:template>

    <xsl:template match="lb">
        <xsl:value-of select="concat('&#10;', current()/@n)" />
    </xsl:template>

</xsl:stylesheet>
```

xt.txt U ×

```
<?xml version="1.0" encoding="UTF-8"?>
Dedication to Commodus
```

https://xsltdev.com/xslt/xsl-value-of/

XSLT main elements

xsl:apply-templates

Processing of XML Documents, XPath - XSLT - XQuery

A.M. Del Grosso

Seminar aims

Introduction

XPath

XSL Trans-formations

XSL in action

XML Queries

XQuery in action

References

xsl:apply-templates

Causes navigation from the current element, usually but not necessarily to process its children. Each selected node is processed using the best-match `xsl:template` defined for that node.

Available in XSLT 1.0 and later versions. Available in all Saxon editions.

- **Category**: instruction
- **Content**: (`xsl:sort` | `xsl:with-param`)*
- **Permitted parent elements**: any XSLT element whose content model is *sequence-constructor*; any literal result element

Attributes

`select?`

expression

Sequence of nodes to be processed. If this attribute is omitted, then all the immediate children of the current node are processed.

`mode?`

https://xsltdev.com/xslt/xsl-apply-templates/

XSLT main elements

xsl:apply-templates


```xml
<?xml version="1.0" encoding="UTF-8"?>

<xsl:stylesheet version="2.0"
    xmlns:xsl="http://www.w3.org/1999/XSL/Transform">

    <xsl:template match="/">
        <xsl:value-of select="concat('&#10;',
            normalize-space(descendant::titleStmt/
            title=>string()))" />
        <xsl:apply-templates select="//text//div" />
    </xsl:template>

    <xsl:template match="div">
        <xsl:text>&#10;</xsl:text>
        <xsl:value-of select="@type" />
        <xsl:text>&#10;</xsl:text>
    </xsl:template>

    <xsl:template match="head">
        <xsl:value-of select="." />
    </xsl:template>

    <xsl:template match="lb">
        <xsl:value-of select="concat('&#10;', current()/
            @n)" />
    </xsl:template>

</xsl:stylesheet>
```

```
1  <?xml version="1.0" encoding="UTF-8"?>
2  Dedication to Commodus
3  bibliography
4
5  history
6
7  edition
8
9  apparatus
10
11 translation
12
13 commentary
14
15 figure
16
```

https://xsltdev.com/xslt/xsl-apply-templates/

XSLT main elements

xsl:apply-templates


```xml
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="2.0"
    xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
    <xsl:template match="/">
        <xsl:value-of select="concat('&#10;',
        normalize-space(descendant::titleStmt/
        title=>string()))" />
        <xsl:apply-templates select="//text//div" />
    </xsl:template>

    <xsl:template match="div">
        <xsl:text>&#10;</xsl:text>
        <xsl:value-of select="name(.)=>concat(' : ',@type)
        " />
        <xsl:text>&#10;</xsl:text>
        <xsl:apply-templates select="head" />
    </xsl:template>

    <xsl:template match="head">
        <xsl:value-of select="name(.)=>concat(' : ', .)" /
        >
    </xsl:template>

    <xsl:template match="lb">
        <xsl:value-of select="concat('&#10;', current()/
        @n)" />
    </xsl:template>
</xsl:stylesheet>
```

```
1  <?xml version="1.0" encoding="UTF-8"?>
2  Dedication to Commodus
3  div : bibliography
4  head : Bibliography
5  div : history
6  head : Text constituted from
7  div : edition
8  head : Text
9  div : apparatus
10 head : Apparatus
11 div : translation
12 head : Translation
13 div : commentary
14 head : Commentary
15 div : figure
16 head : Photographs
```

https://xsltdev.com/xslt/xsl-apply-templates/

XSLT main elements

xsl:apply-templates


```xml
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="2.0"
    xmlns:xsl="http://www.w3.org/1999/XSL/Transform">

    <xsl:strip-space elements="*" />

    <xsl:template match="/">
        <xsl:value-of select="concat('&#10;','title : ',
        normalize-space(descendant::titleStmt/title=>string()))
        " />
        <xsl:apply-templates select="//text//div" />
    </xsl:template>

    <xsl:template match="div">
        <xsl:text>&#10;</xsl:text>
        <xsl:value-of select="name(.)=>concat(' : ',@type)" />
        <xsl:text>&#10;</xsl:text>
        <xsl:apply-templates select="head" />
    </xsl:template>

    <xsl:template match="head">
        <xsl:value-of select="name(.)=>concat(' : ', .,'&#10;')
        " />
        <xsl:apply-templates select="following-sibling::*" />
    </xsl:template>

    <xsl:template match="lb">
        <xsl:value-of select="concat('&#10;', 'riga ', current
        ()/@n, ' : ')" />
    </xsl:template>

</xsl:stylesheet>
```

```
1  <?xml version="1.0" encoding="UTF-8"?>
2  title : Dedication to Commodus
3  div : bibliography
4  head : Bibliography
5  Not previously published.
6  div : history
7  head : Text constituted from
8  Transcription (Reynolds, Ward-Perkins)
9  div : edition
10 head : Text
11 riga 1 : ImperatorCaesarMarciAntoniniPiifili
12 riga 2 : diuiPiinepdiuiHadrianipronepdiui
13 riga 3 : TraianiParthiciabnepdiuiNeruaeadnep
14 riga 4 : LuciAeliAureliCommodAugust
15 div : apparatus
16 head : Apparatus
17 Line 4 is represented by the upper parts only of
   two letters with rounded bowls.
18 div : translation
19 head : Translation
20 Emperor Caesar son of Marcus Antonius Pius,
   grandson of deified Pius, great grandson of
   deified Hadrian, great great grandson of deified
   Trajan victor in Parthia, great great great
   grandson of deified Nerva, Lucuis Aelius Aurelius
   Commodus Augustus
21 div : commentary
22 head : Commentary
23 No comment
24 div : figure
25 head : Photographs
26 head : Ward-Perkins Archive, BSR (BSR 48.XXVII.13)
```

https://xsltdev.com/xslt/xsl-apply-templates/

XSLT main elements

xsl:for-each

Processing of XML Documents, XPath - XSLT - XQuery
A.M. Del Grosso
Seminar aims
Introduction
XPath
XSL Trans-formations
XSL in action
XML Queries
XQuery in action
References

xsl:for-each

Causes iteration over the nodes selected by a node-set expression.

Available in XSLT 1.0 and later versions. Available in all Saxon editions.

- **Category**: instruction
- **Content**: (`xsl:sort`* , *sequence-constructor*)
- **Permitted parent elements**: any XSLT element whose content model is *sequence-constructor*; any literal result element

Attributes

`select`

expression

Defines the nodes over which the statement will iterate. The XSLT statements subordinate to the `xsl:for-each` element are applied to each source node selected by the node-set expression in turn. The full syntax of expressions is outlined in XPath Expression Syntax.

https://xsltdev.com/xslt/xsl-for-each/

XSLT main elements

xsl:for-each xsl:sort


```xml
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="2.0"
    xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
    <xsl:output method="text" encoding="UTF-8" />

    <xsl:template match="/">
        <xsl:for-each select="distinct-values(//w/@lemma)">
            <xsl:sort select="." data-type="text" lang="la"/>
            <xsl:text>&#32;</xsl:text>
            <xsl:value-of select="." />
            <xsl:text>&#32;</xsl:text>
        </xsl:for-each>
    </xsl:template>

</xsl:stylesheet>
```

out-text.txt U

```
diuus filius imperator
```

https://xsltdev.com/xslt/xsl-for-each/

XSLT main elements

xsl:if xsl:key

xsl:if

Used for conditional processing. It takes a mandatory test attribute, whose value is a boolean expression. The contents of the `xsl:if` element are expanded only of the expression is true.

Available in XSLT 1.0 and later versions. Available in all Saxon editions.

- **Category**: instruction
- **Content**: *sequence-constructor*
- **Permitted parent elements**: any XSLT element whose content model is *sequence-constructor*; any literal result element

Attributes ¶

`test`

expression

The boolean expression to be tested. The full syntax of boolean expressions is outlined in XPath Expression Syntax.

https://xsltdev.com/xslt/xsl-if/

XSLT main elements

xsl:key xsl:if


```xml
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="2.0"
    xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
    <xsl:output method="text" encoding="UTF-8" />

    <xsl:key name="lang" match="language" use="@ident"></xsl:key>

    <xsl:template match="/">
        <xsl:if test="key('lang','la')">
            <xsl:value-of select="key('lang','la')" />
        </xsl:if>
    </xsl:template>

</xsl:stylesheet>
```

out-text.txt U

```
Latin
```

https://xsltdev.com/xslt/xsl-key/

Processing of XML Documents, XPath - XSLT - XQuery

A.M. Del Grosso

Seminar aims

Introduction

XPath

XSL Transformations

XSL in action

XML Queries

XQuery in action

References

xsl:variable

Used to declare a variable and give it a value. If it appears at the top level (immediately within `xsl:stylesheet`) it declares a global variable, otherwise it declares a local variable that is visible only within the stylesheet element containing the **`xsl:variable`** declaration. The value of a variable can be referenced within an expression using the syntax `$name`.

Available in XSLT 1.0 and later versions. Available in all Saxon editions.

- **Category**: declaration
- **Category**: instruction
- **Content**: *sequence-constructor*
- **Permitted parent elements**: `xsl:package` ; `xsl:stylesheet` ; `xsl:transform` ; `xsl:override` ; `xsl:function` ; any XSLT element whose content model is *sequence-constructor*; any literal result element

Attributes

`name`

eqname

Defines the name of the variable.

`select?`

XSLT main elements

xsl:variable


```xml
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="2.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
    <xsl:output method="text" encoding="UTF-8" />
    <xsl:key name="lang" match="language" use="@ident"></xsl:key>

    <xsl:template match="/">
        <xsl:if test="key('lang','la')">
            <xsl:variable name="latLang" select="key('lang','la')" />
            <xsl:value-of select="
                concat('Selected Language: ',$latLang/text(), ' (' ,$latLang/@ident,')')
            "/>
        </xsl:if>
    </xsl:template>

</xsl:stylesheet>
```

out-text.txt U

```
Selected Language: Latin (la)
```

https://xsltdev.com/xslt/xsl-variable/

Progress status

Seminar aims

Introduction

XPath

XSL Transformations

XSL in action

XML Queries

XQuery in action

References

1 Seminar aims

2 Introduction

3 XPath

4 XSL Transformations

5 XSL in action

6 XML Queries

7 XQuery in action

eXtensible Style Sheet

Working with XSL-T


```
<teiHeader>
  <fileDesc>
    <titleStmt>
      <title>
        <rs type="textType">Christian</rs>
        <rs type="textType">funerary</rs> inscription for Helladios</title>
      <editor>J. M. Reynolds</editor>
      <editor>J. B. Ward-Perkins</editor>
    </titleStmt>
    <publicationStmt>
      <authority>Centre for Computing in the Humanities, King's College London</authority>
      <idno type="filename">IRT256a</idno>
      <availability>
        <p>Creative Commons licence Attribution UK 2.0 (<ref>http://creativecommons.org/li
        <p>All reuse or distribution of this work must contain somewhere a link back to th
        </p>
      </availability>
    </publicationStmt>
    <sourceDesc>···
```

The Inscriptions of Roman Tripolitania - https://inslib.kcl.ac.uk/irt2009/

eXtensible Style Sheet

Working with XSL-T


```xml
<?xml version="1.0" encoding="UTF-8"?>
<!-- $Id$ -->
<xsl:stylesheet
    xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
    xmlns:t="http://www.tei-c.org/ns/1.0"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    exclude-result-prefixes="t" version="2.0">

    <xsl:output method="html" encoding="UTF-8"/>

    <!-- HTML FILE -->
    <xsl:template match="/">
        <xsl:choose>…
        </xsl:choose>
    </xsl:template>

</xsl:stylesheet>
```

```xml
<!DOCTYPE HTML><html xmlns:i18n="http://apache
org/cocoon/i18n/2.1">
    <head>
        <meta http-equiv="Content-Type"
        content="text/html; charset=UTF-8">
        <title>IRT256a. Christian funerary
        inscription for Helladios</title>
        <link rel="stylesheet" type="text/css"
        media="screen, projection" href="global.
        css">
    </head>
    <body>
        <h1>IRT256a. Christian funerary
        inscription for Helladios</h1>
        <div id="metadata">
            <p><b>Description: </b> The right-har
            part of a marble
                panel.
                (surviving width w 0.46 metre x h
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL wsl

```
angelodel80@LAPTOP-V8V3MLG0:/mnt/c/Users/angel/risorse/universita/corsoCodifica/tools$ java -jar SaxonHE10-
3J/saxon-he-10.3.jar -s:source/IRT256a.xml  -xsl:source/Stylesheets-9.4/start-edition.xsl -o:source/out/out
-text-epidoc.html
```

The Inscriptions of Roman Tripolitania - https://inslib.kcl.ac.uk/irt2009/

Processing of XML Documents, XPath - XSLT - XQuery

A.M. Del Grosso

Seminar aims

Introduction

XPath

XSL Trans-formations

XSL in action

XML Queries

XQuery in action

References

Bibliography

Not previously published.

Text constituted from

Transcription (Reynolds, Ward-Perkins)

Text

[Εὐμοιριτο] Ἑλλάδιος ἔζησε ἔτι ν΄
[πλέον ἔλατ(τ)ον μῆ]ν[ες γ΄] ἡμέρας
[δεκαπέντε ὁ Χριστὸς μετὰ τ(ο)ῦ] πνεύ-
[ματός σ(ο)υ ἐτ]ελεύ[τισεν μι]νὶ Παυνὶ
5 [ἑβδό]μι κατὰ τοὺς Ἄφρ<ο>υς

Apparatus

Apparatus

The supplied letters are no longer legible.

Translation

[May he be well off]. Helladios lived approximately 50 years, three months and fifteen days. Christ be with your spirit. He died on the seventh of the month of Payn among the Africans.

eXtensible Style Sheet

Working with XSL-T


```
<parameter>
   <name>edition-type</name>
   <value>interpretive</value>
   <value on="yes">diplomatic</value>
</parameter>

<!-- Line-numbering increment -->
<parameter>
   <name>line-inc</name>
   <value>1</value>
</parameter>
```

The Inscriptions of Roman Tripolitania - https://inslib.kcl.ac.uk/irt2009/

Processing of XML Documents, XPath - XSLT - XQuery

A.M. Del Grosso

Seminar aims

Introduction

XPath

XSL Trans-formations

XSL in action

XML Queries

XQuery in action

References

Text

1	[.....]ΕΛΛΑΔΙΟΣΕΖΗΣΕΕΤΙΝ
2	[.....]Ν[...]ΗΜΕΡΑΣ
3	[.....]ΠΝΕΥ
4	[.....]ΕΛΕΥ[.....]ΝΙ.ΑΥΝΙ
5	[....]ΜΙΚΑΤΑΤΟΥΣΑΦΡΥΣ

Apparatus

Apparatus

The supplied letters are no longer legible.

Translation

[.....]. Helladios lived approximately 50 years, three months and fifteen days. Christ be with your spirit. He died on the seventh of the month of Payn among the Africans.

The Inscriptions of Roman Tripolitania - https://inslib.kcl.ac.uk/irt2009/

eXtensible Style Sheet

Working with XSL-T

Processing of XML Documents, XPath - XSLT - XQuery

A.M. Del Grosso

Seminar aims

Introduction

XPath

XSL Trans-formations

XSL in action

XML Queries

XQuery in action

References

```
<parameter>
    <name>edn-structure</name>
    <value>default</value>
    <value>ddbdp</value>
    <value>hgv</value>
    <value>inslib</value>
    <value>iospe</value>
    <value>edh</value>
    <value>edh-db</value>
    <value>rib</value>
    <value>sammelbuch</value>
    <value on="yes">sample</value>
    <value>eagle</value>
    <value>igcyr</value>
</parameter>
```

Processing of XML Documents, XPath - XSLT - XQuery

A.M. Del Grosso

Seminar aims

Introduction

XPath

XSL Trans-formations

XSL in action

XML Queries

XQuery in action

References

Current repository: Unknown

Text type: Christianfunerary

Editor(s): J. M. Reynolds, J. B. Ward-Perkins

Changes history: 2010-08-18 GB Converted from TEI P4 (EpiDoc DTD v. 6) to P5 (EpiDoc RNG schema v. 8); 2008-09-09 ZA converted 2009-05-19 RV Added Figures; 2009-08-24 RV Added Figures

Publication details: Centre for Computing in the Humanities, King's College London;

Creative Commons licence Attribution UK 2.0 ().

All reuse or distribution of this work must contain somewhere a link back to the URL

Interpretive

Text

1 [Εὐμοιριτο] Ἑλλάδιος ἔζησε ἔτι ν΄
2 [πλέον ἔλατ(τ)ον μῆ]ν[ες γ΄] ἡμέρας
3 [δεκαπέντε ὁ Χριστὸς μετὰ τ(ο)ῦ] πνεύ-
4 [ματός σ(ο)υ ἐτ]ελεύ[τισεν μι]νὶ Παυνὶ
5 [ἑβδό]μι κατὰ τοὺς Ἄφρ<ο>υς

Diplomatic

Text

1 [.....]ΕΛΛΑΔΙΟΣΕΖΗΣΕΕΤΙΝ
2 [.....]Ν[...]ΗΜΕΡΑΣ
3 [.....]ΠΝΕΥ
4 [.....]ΕΛΕΥ[.....]ΝΙ.ΑΥΝΙ
5 [....]ΜΙΚΑΤΑΤΟΥΣΑΦΡΥΣ

eXtensible Style Sheet

Working with XSL-T

Processing of XML Documents, XPath - XSLT - XQuery

A.M. Del Grosso

Seminar aims

Introduction

XPath

XSL Trans-formations

XSL in action

XML Queries

XQuery in action

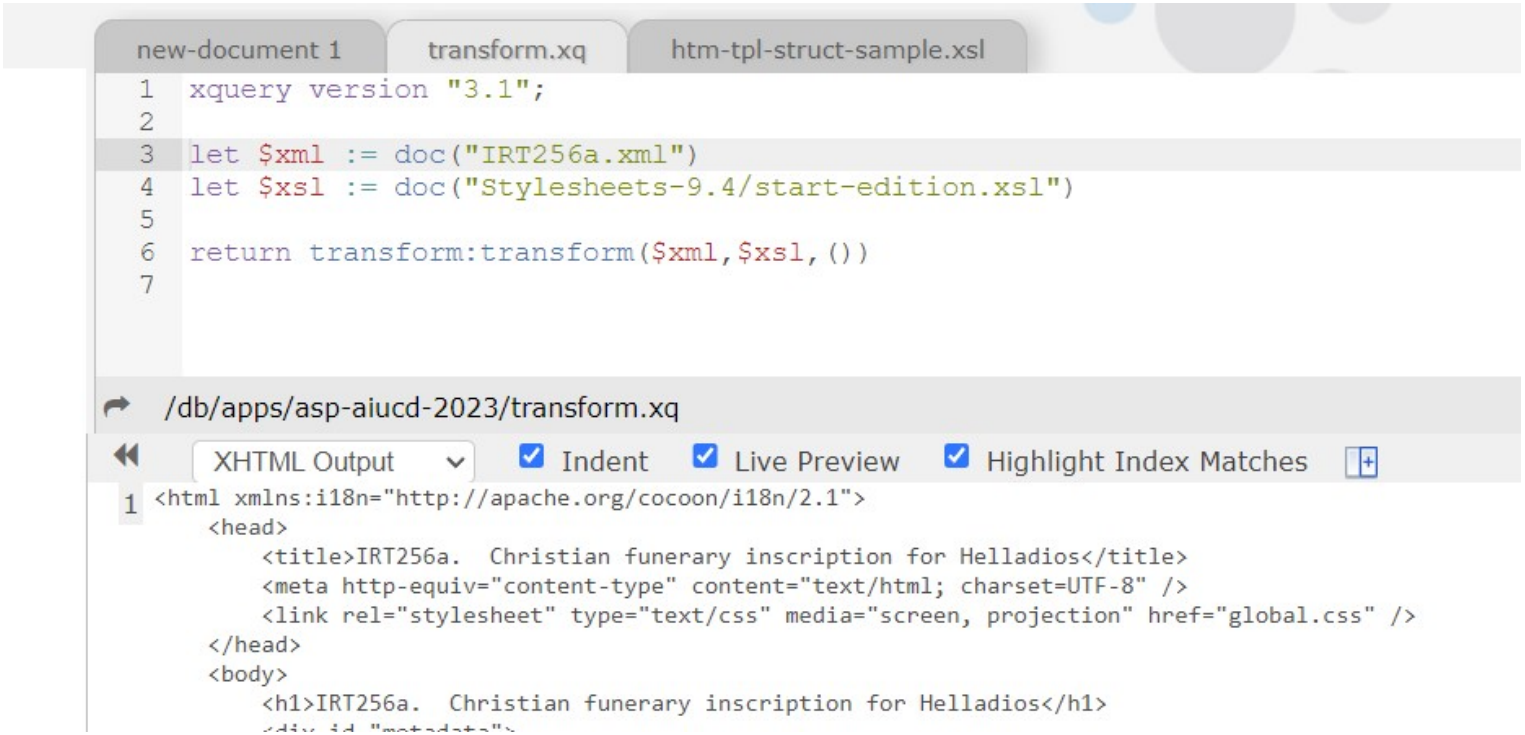
References

```
<p><b>Text type: </b>
  <xsl:choose>
    <xsl:when test="//t:textClass//t:keywords//t:term[@type='textType']">
      <xsl:apply-templates select="//t:textClass//t:keywords//t:term[@type=
    </xsl:when>

    <!--xsl:when test="//t:teiHeader//t:rs[@type='textType']">
      <xsl:apply-templates select="//t:teiHeader//t:rs[@type='textType']"/>
    </xsl:when-->

    <xsl:when test="//t:teiHeader//t:rs[@type='textType']">

      <xsl:for-each select="//t:teiHeader//t:rs[@type='textType']">
        <xsl:apply-templates select="current()"/><xsl:text> </xsl:text>
      </xsl:for-each>

    </xsl:when>
```

The Inscriptions of Roman Tripolitania - https://inslib.kcl.ac.uk/irt2009/

eXtensible Style Sheet

Working with XSL-T



The Inscriptions of Roman Tripolitania - https://inslib.kcl.ac.uk/irt2009/

Progress status

Seminar aims

Introduction

XPath

XSL Transformations

XSL in action

XML Queries

XQuery in action

References

1 Seminar aims

2 Introduction

3 XPath

4 XSL Transformations

5 XSL in action

6 XML Queries

7 XQuery in action

Progress status

Seminar aims

Introduction

XPath

XSL Transformations

XSL in action

XML Queries

XQuery in action

References

1 Seminar aims

2 Introduction

3 XPath

4 XSL Transformations

5 XSL in action

6 XML Queries

7 XQuery in action

Progress status

Seminar aims

Introduction

XPath

XSL Transformations

XSL in action

XML Queries

XQuery in action

References

1 Seminar aims

2 Introduction

3 XPath

4 XSL Transformations

5 XSL in action

6 XML Queries

7 XQuery in action

Bibliography

deepen into XPath and XSLT

Processing of XML Documents, XPath - XSLT - XQuery

A.M. Del Grosso

Seminar aims

Introduction

XPath

XSL Trans-formations

XSL in action

XML Queries

XQuery in action

References

Some References

- XQuery and XPath Data Model 3.1
  https://www.w3.org/TR/xpath-datamodel-31/
- XSLT Recommendations
  https://www.w3.org/TR/xslt/
- XPath Recommendations
  https://www.w3.org/TR/xpath/
- Kay, M. (2011). XSLT 2.0 and XPath 2.0 Programmer's Reference. Wiley.
- Williams, I. (2009). Beginning XSLT and XPath: Transforming XML Documents and Data. Wiley.
- Walmsley, P. (2015) XQuery: Search Across a Variety of XML Data. O'Reilly.
- Saxonica documentation:
  https://www.saxonica.com/documentation11/documentation.xml