

## Lab 06

**Exercise 01:** Here the *working\_group.xml* file, we want an HTML display of the workgroup XML document.

<pre>&lt;?xml version="1.0" encoding="ISO-8859-1" standalone="no"?&gt; &lt;gdt month="February" year="2004"&gt;   &lt;expose day="5"&gt;     &lt;speaker&gt;Nicolas Baudru&lt;/speaker&gt;     &lt;title&gt;Netcharts et HMSC&lt;/title&gt;     &lt;time&gt;12h45&lt;/time&gt;     &lt;salle&gt;102&lt;/salle&gt;   &lt;/expose&gt;   &lt;expose day="12"&gt;     &lt;comment&gt;Exposé proposé par Francois Denis, équipe BDA&lt;/comment&gt;     &lt;speaker&gt;Liva Ralaivola&lt;/speaker&gt;     &lt;title&gt;apprentissage statistique, noyaux et applications à la bio-informatique&lt;/title&gt;     &lt;time&gt;14h&lt;/time&gt;     &lt;salle&gt;104&lt;/salle&gt;   &lt;/expose&gt;   &lt;expose day="19"&gt;     &lt;comment&gt;pas de groupe de travail&lt;/comment&gt;   &lt;/expose&gt;   &lt;expose day="26"&gt;     &lt;speaker&gt;Pedro d'Argenio&lt;/speaker&gt;     &lt;title&gt;Secure Information Flow by Self-Composition&lt;/title&gt;     &lt;time&gt;12h45&lt;/time&gt;     &lt;salle&gt;102&lt;/salle&gt;   &lt;/expose&gt; &lt;/gdt&gt;</pre>	<p style="text-align: center;"><b>Groupe de travail, February2004</b></p> <p><b>Le 5February :</b>          Présentation de Nicolas Baudru  <b>Titre:</b>          Netcharts et HMSC</p> <p><b>Le 12February :</b>          Présentation de Liva Ralaivola  <b>Titre:</b>          apprentissage statistique, noyaux et applications à la bio-informatique</p> <p><b>Le 19February :</b>          Présentation de  <b>Titre:</b></p> <p><b>Le 26February :</b>          Présentation de Pedro d'Argenio  <b>Titre:</b>          Secure Information Flow by Self-Composition</p>
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In the following, we will extend the style sheet to improve the display:

1. Add the schedule and room information.
2. Add a test allowing a different display for days when there is no workgroup, and another for the case where the gdt element has no exposed child.
3. Use the text tag to insert the missing spaces. To do this, you will define an xsl variable representing a space to clarify your style sheet.
4. Define a translate template taking as input the value of the month attribute (the name of the month in English), and returning the name of this month in French.

# Groupe de travail, Février 2004

## Le 5 Février :

Présentation de Nicolas Baudru

### Titre:

Netcharts et HMSC

## Le 12 Février :

Présentation de Liva Ralaivola

### Titre:

apprentissage statistique, noyaux et applications à la bio-informatique

## Le 19 Février :

pas de groupe de travail

## Le 26 Février :

Présentation de Pedro d'Argenio

### Titre:

Secure Information Flow by Self-Composition

### Exercice 02: Either the following xml file:

```
<?xml version="1.0" encoding="UTF-8"?>
  <paper type="scientific">
    <title>Re-examining documentary structures</title>
    <sousTitre>From digitization to computerization</sousTitre>
    <author>Stéphane Crozat</author> <author>Bruno Bachimont</author>
    <resume>In this article we propose to address ...</resume>
    <abstract>In this paper we define...</abstract>
    <keywords>
      <term>Knowledge engineering</term>
      <term>XML</term>
      <term>Document</term>
    </keywords>
    <motsCles>
      <terme>Ingénierie des connaissances</terme>
      <terme>XML</terme>
      <terme>Document</terme>
    </motsCles>
    <publication date="2004-07-05"/>
    <version shift="1" min="0"/>
    <uriSrc
      resource="http://archivesic.ccsd.cnrs.fr/docs//PDF/sic_00001015.pdf"/>
  </paper>
```

Complete the XSLT file transf.xsl in order to generate, for each term element, an SQL instruction for insertion into a relational schema table: tKeywords (term, title, url) (where term is the

selected term, `title` is the title of the document and `url` is the address of the associated resource). As a reminder, the syntax for inserting data into a relational table in SQL:

```
INSERT INTO <Relationship name> (<Ordered list of properties to value>) VALUES (<Ordered list of values to assign>).
```

Examples:

- ```
INSERT INTO tKeywords (term, title, url) VALUES ('Knowledge engineering', 'Re-examining documentary structures', 'http://archivesic.ccsd.cnrs.fr/docs//PDF/sic_00001015.pdf');
```
- ```
INSERT INTO tKeywords (term, title, url) VALUES ('XML', 'Researching documentary structures', 'http://archivesic.ccsd.cnrs.fr/docs//PDF/sic_00001015.pdf');
```
- ```
INSERT INTO tKeywords (term, title, url) VALUES ('Document', 'Reinterrogate documentary structures', 'http://archivesic.ccsd.cnrs.fr/docs//PDF/sic_00001015.pdf');
```