

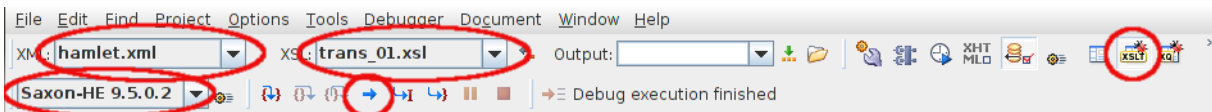
# *Transforming XML using XSLT*

Martin Holmes, David J. Birnbaum

## Transforming XML to text using XSLT using Saxon inside <oXygen/>

- Download the example Hamlet XML file and open it in Oxygen: <http://web.uvic.ca/~mholmes/dhoxss2013/examples/hamlet.xml>
- Download the first simple XSL file and open it: [http://web.uvic.ca/~mholmes/dhoxss2013/examples/trans\\_01.xsl](http://web.uvic.ca/~mholmes/dhoxss2013/examples/trans_01.xsl)

## Transforming XML to text using XSLT using Saxon inside <oXygen/>



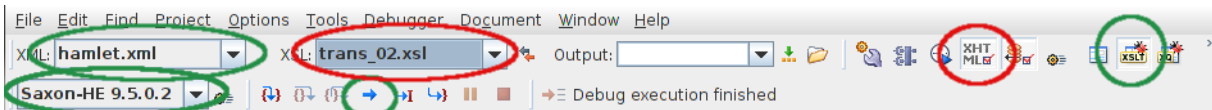
- Switch to the XSLT debugger
- Select the XSLT engine (accept the Saxon-HE default)
- Verify that you've chosen the correct XML and XSLT files
- (Optional: Specify an output filename to save output)
- Run the transformation (click on blue arrow)
- Examine the output as text

## Transforming XML to XHTML using XSLT using Saxon inside <oXygen/>

Still using the hamlet.xml file...

Download the second simple XSL file and open it: [http://web.uvic.ca/~mholmes/dhoxss2013/examples/trans\\_02.xsl](http://web.uvic.ca/~mholmes/dhoxss2013/examples/trans_02.xsl)

## Transforming XML to XHTML using XSLT using Saxon inside <Oxygen/>



- Switch to the XSLT debugger
- Select the XSLT engine (accept the Saxon-HE default)
- **Check the XHTML box**
- Verify that you've chosen the new XSLT file
- Run the transformation straight through (click on blue arrow)
- Examine the output as **XHTML and text**

## Configuring a transformation scenario

- Click on the wrench with the red triangle or type Ctrl-Shift-c (Cmd-Shift-c on Mac)
- Scenario type is XML transformation with XSLT
- Save as **project** scenario
- Create a **new** scenario
- XSLT tab
  - # **XML URL:** use the default of `${currentFileURL}`
  - # **XSL URL:** browse to your XSLT file
  - # **Transformer:** use Saxon-HE
- Output tab
  - # **Save As:** Browse to wherever you want to save the output
  - # Check preferences (suggested: "Open in browser" and either "Open in Editor" or one of the "Show As" options)

## Your mission...

- ...is to create a transformation scenario for your own TEI data.
- Open your TEI file (just one is enough).

- Download the generic empty XSL file and save it locally: [http://web.uvic.ca/~mholmes/dhoxss2013/examples/generic\\_xslt.xsl](http://web.uvic.ca/~mholmes/dhoxss2013/examples/generic_xslt.xsl)
- Create a transformation scenario using that XSLT file, saving the results to your hard drive.
- There is a useful "cheatsheet" showing the process here: [http://web.uvic.ca/~mholmes/dhoxss2013/handouts/transformation\\_scenario\\_cribsheet.xhtml](http://web.uvic.ca/~mholmes/dhoxss2013/handouts/transformation_scenario_cribsheet.xhtml)

## Transforming XML to XHTML using saxon from the command line

- Install command-line saxon processor and add to path
- Save XML and XSLT to the same directory
  - # Convenient for one-off projects
  - # For reuse of XSLT, save it to a library directory, but you then need to specify the path
- Syntax
  - # Create an alias or batch file
    - # Not required, but strongly recommended for convenience
    - # Set the name **saxon** to, e.g., **java -jar c:\bin\saxon\_9.2\saxon9he.jar**
  - # `saxon -o outputfilename xmlfilename xsltfilename`
  - # `saxon -o sample.html input.xml transform-input.xsl`
  - # Other command-line switches are available