# XPath for Document Archeology and Project Management

## DHSI 2018, Course #44, Elisa Beshero-Bondar and David J. Birnbaum

### Coursepack contents

1. Contents 1
2. About this course 3
3. Syllabus 5
4. Resources (bibliography and links) 8
5. Exercises and tutorials (links) 10
6. XPath
   1. What can XPath do for me? 11
   2. The XPath functions we use most 21
7. Regular expressions (regex)
   1. Autotagging with regular expressions (regex) 25
8. XSLT
   1. Introduction to XSLT 33
   2. Attribute value templates (AVT) 41
   3. The XSLT identity transformation
      1. Tutorial 45
      2. Exercise 49
   4. Modal XSLT 52
   5. XSLT, part 2: advanced features 55
   6. Using <xsl:analyze-string> 63
9. Schematron
   1. Guide to schema writing with Schematron 66
   2. Validating references with Schematron 69
10. What’s new in XSLT 3.0 and XPath 3.1 (under development) 73
11. Obdurodon exercises and tests
    1. Regular expressions (regex) 78
    2. XPath 92
    3. XQuery 100
    4. XSLT 105
    5. Schematron 126
12. Mulberry guides and quick references
    1. Guide to using the Oxygen XML Editor (v20.0) 122
    2. XQuery 1.0 and XPath 2.0 functions and operators quick reference 136
    3. Regular expressions in XSLT 2.0, XQuery 1.0 and XPath 2.0 quick reference 138
    4. ISO Schematron quick reference 140
    5. XPath 2.0 quick reference 142
    6. XQuery 1.0 quick reference 144
    7. XSLT 2.0 quick reference 146
13. Supplemental readings
    1. *XQuery* (Priscilla Walmsley; sample) 104
    2. *XPath 2.0 and XSLT 2.0* *programmer’s reference* (Michael Kay; tables of contents) blah