<training>
<when>June 15-19, 2020</when>
<where>Lyon, France</where>
</training>

<title>Summer school: XQuery + eXist-db for Humanists</title>

In the last two decades, historians, archaeologists, and philologists of ancient, medieval, and early modern societies have profited from XML-technologies to encode and store their corpora and data sets. However, most of this work has occurred at the level of individual XML files, with analysis, publication, and display generated through non-XML technologies (PHP, Python, etc.), often depending on other specialist programmers. Due to a lack of training opportunities, digital humanists have not been able to leverage their XML skills into advanced query methods and applications.

This XQuery and eXist-db week-long intensive is offered to humanists from all countries who want to capitalize on their existing knowledge of XML and XPATH in order to develop their own XML databases and applications. By the end of this free, 5-day intensive course, the attendees will be able to use XQuery and eXist-db to:

-> query and transform large corpora and datasets
-> develop XML applications
-> publish documents and data to the Web
-> make data available through APIs
-> and communicate with system administrators about XML database and application implementation

Instruction language:
English

Tuition fees:
None!

Location:
University of Lyon
(center of Lyon, France)

Application deadline:
February 9, 2020

Acceptances sent:
February 17, 2020

Organizer:
Jean-Paul Rehr (Univ. Lyon II)

Advisory committee:
Marjorie Burghart (CNRS)
Emmanuelle Morlock (CNRS)

Information and questions: exist.bootcamp.lyon@gmail.com

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SPRING SCHOOL: XQuery and eXist-db for Humanists
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Why this course?

eXist-db, built on XQuery, permits humanist researchers to maximize the potential of XML technologies to perform analysis and publish results in formats ranging from print to websites to APIs. However, courses in XQuery and eXist-db databases for non-programming specialists are exceedingly rare. This course will provide a guided, practically-oriented, workshop-based experience that will allow attendees to create functional applications and websites within 5 days: the training will be hands-on, led by humanists experienced in eXist-db development.

Who is this course for?

This course is offered to graduate students, post-docs, professors, and researchers experienced in XML and XPATH who, leveraging that knowledge, desire to create XML databases and web applications. As such, applicants **must have demonstrable experience in XML, XPATH, and XSLT**. Attendees must also be comfortable with HTML, CSS, Javascript and technical discussions of websites and internet protocol. All instruction will be in English.

The school will welcome **15 applicants** who are committed to attending all 5 days, 9:30am - 6pm.

Programme (hours daily: 9:30am - 6pm):

Day 1: eXist-db as database and application server, XQuery modules and libraries
Day 2: extracting and manipulating data with XQuery in eXist-db
Day 3: publishing to print and web in eXist-db
Day 4: indexing and searching data in eXist-db
Day 5: APIs, inter-operability, and Open Data

+ invited speakers:
- Emmanuelle Morlock on TEI Publisher application for eXist-DB
- Peter Stokes on IIIF (International Image Interoperability Framework) and XQuery
- Nicolas Larrousse (http://huma-num.fr/) on long-term data planning and co-ordinating implementations with system administrators

Costs:

There are no fees for this course!
We will provide coffee/tea/snacks + lunch every day as well as 2 group dinners during the week.*
A free guided tour of old Lyon will be offered one afternoon.
Attendees will be responsible for booking and paying for their own transportation and accommodation, and other meals not otherwise provided by the course.
*note that vegetarian options will be available, but regrettably we cannot guarantee accommodation of other dietary needs.

Technical requirements:

Attendees must come with their own laptop (with adapter for French power outlets) with Firefox installed.
Attendees must install an unmodified version of eXist-db 5.1.1 **before the course**.

How to apply:

Candidates should send the following documents by **February 9, 2020** to exist.bootcamp.lyon@gmail.com:

1. A letter in English (PDF format) containing:
   i. reasons for your interest in this training, including discussion of how you might make use of eXist-db and XQuery in your project(s)
   ii. description of your training, experience, and deployment of XML, XPATH, XSLT and other XML technologies (please include links to projects and/or source code)
   iii. description of your experience with HTML, CSS, Javascript, and other database or internet technologies

2. CV in English (PDF format)

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Instructors, Speakers, and Committee

Marjorie Burghart (CNRS, CIHAM) advisory committee

Marjorie is a permanent research fellow at the CNRS attached to the CIHAM (medieval societies) research centre at Lyon. In addition to her own research on medieval sermons, she coordinates the digital aspects of several projects involving the electronic editing of medieval documents in TEI format (for example http://sermones.net) and created the digital palaeography exercises (http://paleographie.huma-num.fr/) and TEI Critical Apparatus Toolbox (http://teicat.huma-num.fr/).

Mathias Göbel (Göttingen University) trainer

Inspired by a lecture on Digital Humanities in 2010 while studying Economics with a minor in German Philology, Mathias began experimenting with texts in statistics software. He first encountered XQuery and eXist-db at Göttingen State and University Library, where he continues to work on several projects utilizing TEI and larger infrastructures including TextGrid.

Nicolas Larrousse (Huma-Num) guest speaker

Nicolas is a research engineer at the digital humanities infrastructure Huma-Num (http://huma-num.fr/) and is responsible for long-term archival practices, interoperability, and international operations.

Emmanuelle Morlock (CNRS, HiSoMA) guest speaker, advisory committee

Emmanuelle is a research engineer in digital humanities at the CNRS attached to the HiSoMA (History and Sources of the Ancient World) research centre at Lyon; she is particularly focused on research data management, applications of TEI and EpiDoc, and TEI Publisher for eXist-db.

Jean-Paul Rehr (Université Lyon II, CIHAM) organizer, trainer

Having left the IT and business worlds in Canada, Jean-Paul is now a PhD candidate in medieval history. In addition to his own project (http://medieval-inquisition.huma-num.fr/), he trains and consults on historical projects involving network analysis, SQL and XML, including http://thema.huma-num.fr/.

Peter Stokes (École Pratique des Hautes Études, Sorbonne) guest speaker

Peter is Research Professor in digital and computational humanities applied to historical writing at the École Pratique des Hautes Études/Sorbonne. His current primary research focus is on multigraphism (the use of different scripts or writing-systems), particularly in medieval Europe, combining the fields of palaeography, digital humanities and informatics.

Michelle Weidling (Göttingen University) trainer

After finishing her MA in Latin Philology and Medieval & Renaissance Studies, Michelle dove into Digital Humanities. Since 2015 she has written software in XQuery for several (digital) critical editions, including Theodor Fontane's notebooks (https://fontane-nb.dariah.eu/index.html) and the Library of Neology (https://bdn-edition.de/).

Spring school sponsors:

CIHAM (Centre Interuniversitaire d'Histoire et d'Archéologie Médiévales)
http://ciham.msh-lse.fr/

HiSoMA (Histoire et Sources des Mondes Antiques)
http://www.hisoma.mom.fr/