#### eXist-db basics

by Magdalena Turska / @magdaturska

eXist Solutions 2016



Press **SPACE** to navigate through slides.





- NoSQL document database (XML and binary, including text)
- web server for consuming and serving documents
- document search engine
- web application platform
- document creation platform (XForms)
- embeddable set of libraries for use in your own applications
- ... and the list goes on



The eXist alb pashboard is the central application launchpad for eXist-db.

Dashboard displays a list of apps and plugins. Apps are selfcontained applications providing their own web GUI, while plugins run inside the Dashboard simple, single-screen dialogs (eg. package manager or the collection browser).

Read more about Dashboard and core plugins here.









## PACKAGE MANAGER

eXist-db hosts a public repository of application packages which can be installed into an eXist-db database instance. The Package Manager lists all installed and available packages. ou can also upload a package to the server from your local disk. The package has to be in .xar format

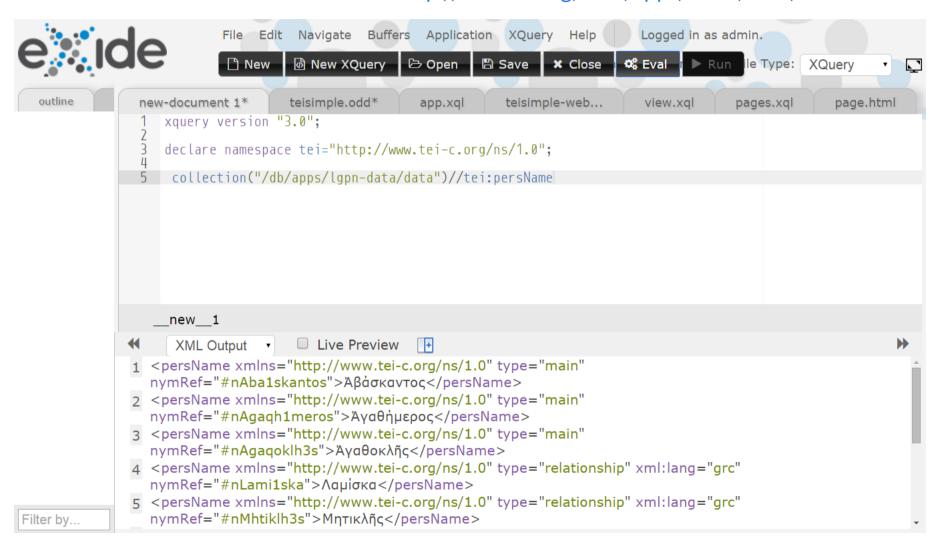
Read more about EXPath packaging format and Package repository at http://exist-db.org/exist/apps/doc/repo.xml.



#### eXide is eXist-db built-in IDE

eXide constantly validates code while you edit. It combines a client-side XQuery parser (xqlint) with the errors reported by the eXist-db server

Read more about eXide's features at http://exist-db.org/exist/apps/eXide/docs/doc.html.



#### COLLECTIONS

Collection for eXist is what we call a folder in a filesystem: it groups a number of related XML or binary resources together.

If a resource is an XML file it is called a document.

Collections pane lets you upload one or multiple files from your filesystem into the database. If you need to create a new collection for your files first, do so by selecting the New Collection button. When the Upload Files dialog appears, browse to select a file from your disk.

Read more about uploading files

# **ACCESSING THE DOCUMENTS**

If you remember where your data was placed, you can access it from the browser.

Typically on a newly installed server the address <a href="http://localhost:8080/exist/">http://localhost:8080/exist/</a> directs you to the Dashboard. Adding at the end of this address the path to the collection and the filename (in a manner very similar to filesystem paths) will point you straight to your file.

http://localhost:8080/exist/apps/myCollection/dashould get you straight to file letter1.xml on your local machine.

#### **WARM-UP**

How many characters there are?

- set up new collection
- upload the TEI version of Hamlet into it
- try to count the characters running XPath in eXide

## **UPLOADING FILES**

Set up new collection first! Use **Collections** manager from the Dashboard to do it!

Upload your file to the collection you created. Remember you need to be logged in to be able to add resources.

When in trouble consult documentation at http://exist-db.org/exist/apps/doc/uploading-files.xml

#### COUNTING

Hint: Think how entities like people or places are represented in TEI. Look at your source file, which one was employed here?

Do you run into trouble? It's most probably a namespace issue!

#### NAMESPACE DECLARATION

# SET UP THE CONNECTION TO EXIST FROM OXYGEN

- Create Data Source connection: from the main menu choose Options - Preferences - Data Sources -Create new eXist connection
- 2. Fill the form with appropriate address and user credentials (same as for accessing eXide). Click OK.
- 3. Open the Database perspective: from the menu choose Window Open Perspective Database
- 4. Browse the Connections on the left hand side to find your collections and resources

# WELL DONE!