

BaseX Users Meetup
XML Prague 2013
Welcome!

The Agenda

Session I

- 14:30** **Christian Grün, Alexander Holupirek:**
Racing through the last 365 days
- 15:00** **Arve Gengelbach, Sabine Teubner:** How to develop
RESTXQ-based web applications with BaseX
- 15:20** **Andy Bunce:** Adventures with BaseX web applications –
RESTXQ, SVG, Angular.js and Node.js
- 15:40** **Charles Foster:**
BaseX and XQJ, The XQuery API for Java

The Agenda

Session II

16:30 **Gerald de Jong:** BaseX at Work in Cultural Heritage

16:50 **Cerstin Mahlow:** Experiences with BaseX and XQuery for diachronic German texts

17:10 **Dirk Kirsten:** Distribution and Replication in BaseX: What to expect in the future

17:30 **Emanuele Panzeri:** Flexible structural constraints in XQuery Full Text

Racing through the last 365 days...

February 12	BaseX 7.1: The 2012 XMLPrague Edition
February 12	BaseX 7.1.1: The Feedback Release
March 12	BaseX 7.2: The EDBT Edition
April 12	Formation of the BaseX GmbH
April 12	BaseX 7.2.1: The Spring Edition
June 12	BaseX 7.3: The Summer Edition
December 12	BaseX 7.5: BaseXMas Edition
February 13	BaseX 7.6: The <i>new</i> XMLPrague Edition!
...	

BaseX 7.6: What's new?

Database Locking!

- updates on different databases can now be executed **in parallel** and won't lock read-only queries anymore

Graphical User Interface

- all query output is displayed in **info view**; clickable errors

XQuery

- additional **query modules**: EXPath Geo, Fetch, HTML
- return of full error **stack trace**

BaseX 7.5 et priori...

Inter-Process Locking

- use multiple read-only BaseX instances **in parallel**

XQuery

- new **XQuery 3.0** features: higher-order functions, map operator, EQNames, annotations, try/catch, group by, HTML5 serialization, ... (nearly finished)
- numerous new **XQuery Modules**
- improved **Java Bindings** and packaging

XQuery Update

- bulk optimizations: much faster updates!
- much less memory consumption
- combined updates and query output: `db:output()`
- creating databases with initial input and dropping them again: `db:create()`, `db:drop()`

Indexing

- full-text: combined support for `wildcard` and `fuzzy` querying
- support for string-based `range queries`

New APIs

- XQJ:** Integration of **Charles Foster**'s XQJ implementation!
- RESTXQ:** Implementation of **Adam Retter**'s excellent proposal from last year's XMLPrague!
- BXS:** BaseX Command Scripts (Syntax: strings and XML), motivated by **Hans-Jürgen Rennau**!

Web Apps

- making heavy use of **RESTXQ** and **XSLTForms**
- additional query modules: **Request**, **Session(s)**

Command Line

- multiple commands per call, **sequential** execution
- cross-platform **readline** and history support
- automatic detection of typed in input (files vs. queries)
- execution of command scripts (**.bxs**)

Graphical User Interface

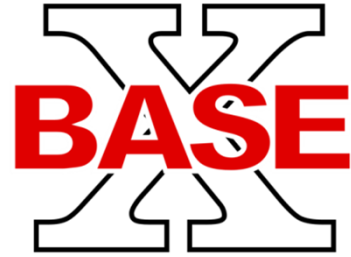
- enhanced **New/Add** dialog windows
- dialog for listing, installing and deleting **packages**

GUI Editor

- better **search and replace**
- realtime **regex** search
- highlighting and syntax **parsing**: XQuery, XML, BXS, JSON
- magic shortcuts, inspired by eclipse, e.g.: **ctrl .**

...watch out for BaseX 7.7!

- completing XQuery 3.0 features (**GFLWORs**)
- improved **database locking** support



Thank you guys!