



June 4, 2019

YottaDB Update

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YottaDB[®] – https://yottadb.com



- A mature, high performance, hierarchical key-value NoSQL database whose code base scales up to mission-critical applications like large real-time corebanking and electronic health records, and also scales down to run on platforms like the Raspberry Pi Zero, as well as everything in-between.
- Rock Solid. Lightning Fast. Secure. Pick any three.

YottaDB is a registered trademark of YottaDB LLC

It's All About Data



- Languages are like religions
 - I'll change mine if you'll change yours
 - (But you go first...)
- Language agnostic access to data
 - Any language, any platform, anywhere
 - (At least, that's the goal...)

Key-Value Model is Common



- M local/global variables
- XML
- JSON
- And extends to other data models
 - http://mgateway.com/docs/universalNoSQL.pdf
- Including relational (more later...)

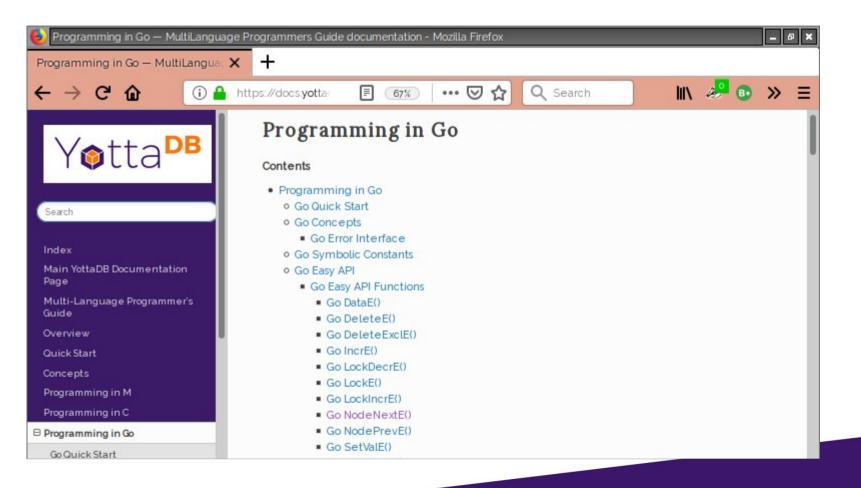
C – Computing Lingua Franca



- Native C API added r1.20 (March 2018)
- Functions added to support threaded applications r1.24 (January 2019)
- Additional languages supported via wrappers

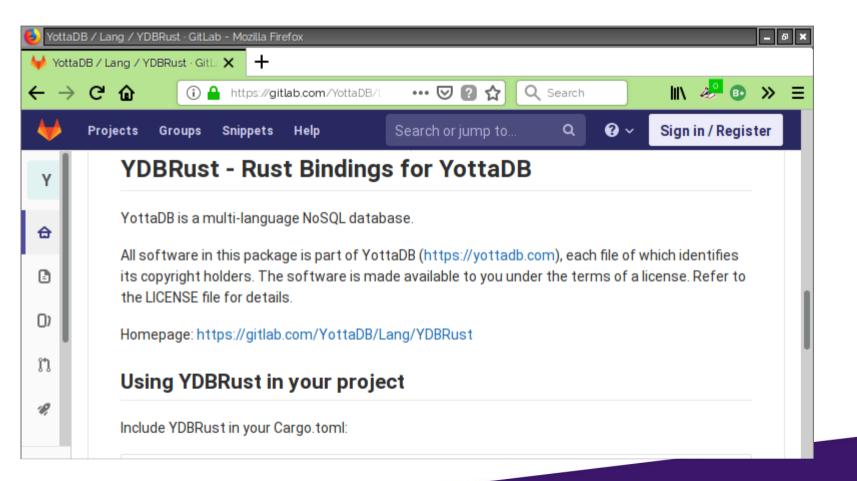


Go – Field Test Grade Available Today





Rust – Usable Prototype Available



Python – Coming soon





UNDER CONSTRUCTION



node.js – thank you, David Wicksell!

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7 commits		<pre> % 1 branch % 13 release </pre>		∾ 13 releases	2 contributors			
Branch: master	•					Create new file		
dlwicksell	Fix support for Yot	aDB r1.24				Lat		
Add asynchronous API support for another four APIs								
lib		Add asynchronous A	PI support for	another four APIs				

Perl – thank you, Stefan Traby!

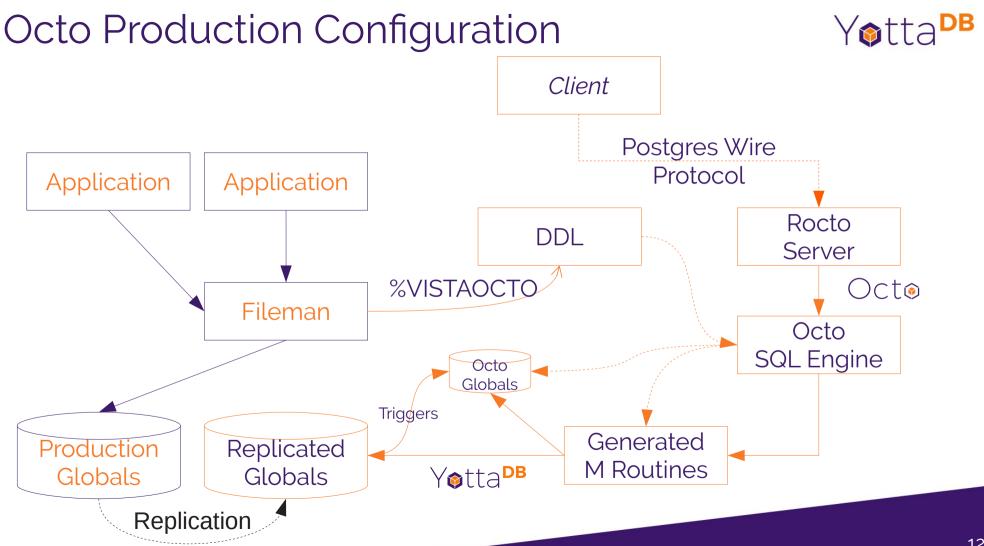


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• Octo is a SQL database engine that whose tables are stored in global variables







- Initial target is read-only access
- Currently in alpha test working with a friendly user as we develop functionality
- Beta test starts Monday, July 8

Training – Mon, Jul 8, Bethesda, MD

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Pre-Summit Training Course

Get the most out of your 2019 OSEHRA Summit experience this July by signing up for our new Pre-Summit Training Course, SQL Reporting of VistA Data, led by YottaDB LLC's Christopher Edwards. YottaDB has partnered with OSEHRA to offer on-site technical training at the Bethesda North Marriott Hotel and Conference Center prior to the start of the 2019 OSEHRA Summit, on Monday, July 8th 2019. This single-day class will demonstrate and explore how to use SQL to access VistA for statistical analysis and reporting.

Course Overview

VistA is a powerful free/open source transactional system for electronic health records. Adding SQL access to VistA enables statistical analysis tools that can help you get even more value from the data. Join us to discover some of the most powerful, standard, off-the-shelf tools available that use SQL to access data. Attendees will leave with a running VistA system that has SQL access from selected free/open source SQL clients (Squirrel SQL – <u>http://www.squirrelsql.org</u> – is the current target).

This will be a hands-on class, and you will need to bring your own computer. The class will be taught using a Docker image provided by the instructor. This image will contain a VistA system pre-populated with synthetic patient data that runs YottaDB on Linux, using Octo by YottaDB for SQL access. Though this Docker image will be used for training, the techniques learned in this training will be largely applicable and pertinent to other VistA systems.

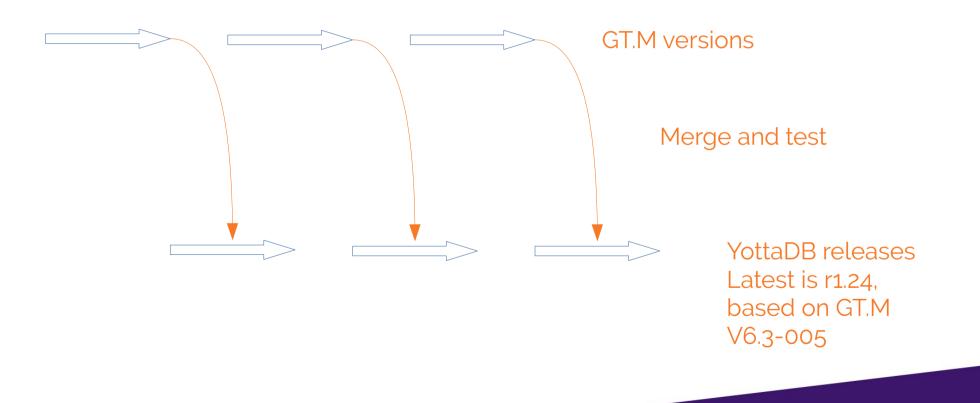


Bring your laptops!



- GUI
 - Initially GDE
- Support for 64-bit Linux on ARM
- Performance & functional enhancements; bug fixes
- New demos
- All 100% FOSS https://gitlab.com/YottaDB

Staying Compatible with Upstream



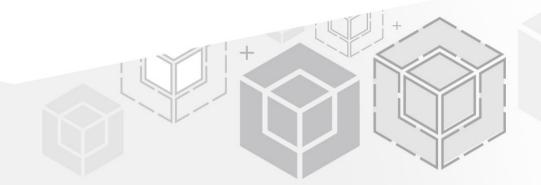
Yøtta^{DB}

Attempting to Reach New Users



- FOSSCON, Philadelphia (August)
- Northwest Linux Festival, Bellingham, WA (May)
- SouthEast LinuxFest, Charlotte, NC (June)
- All Things Open, Raleigh, NC (August)
- (Maybe) Ohio Linux, Columbus, OH (November)

Suggestions welcome!





Thank You!

yottadb.com