

PRESENTATION

Developer Variety Hour



JESSE GALLAGHER

CTO - I KNOW SOME GUYS

IP MANAGER - OPENNTF

[HTTPS://FROSTILLIC.US](https://frostillic.us)

@JESSE@PUB.FROSTILLIC.US



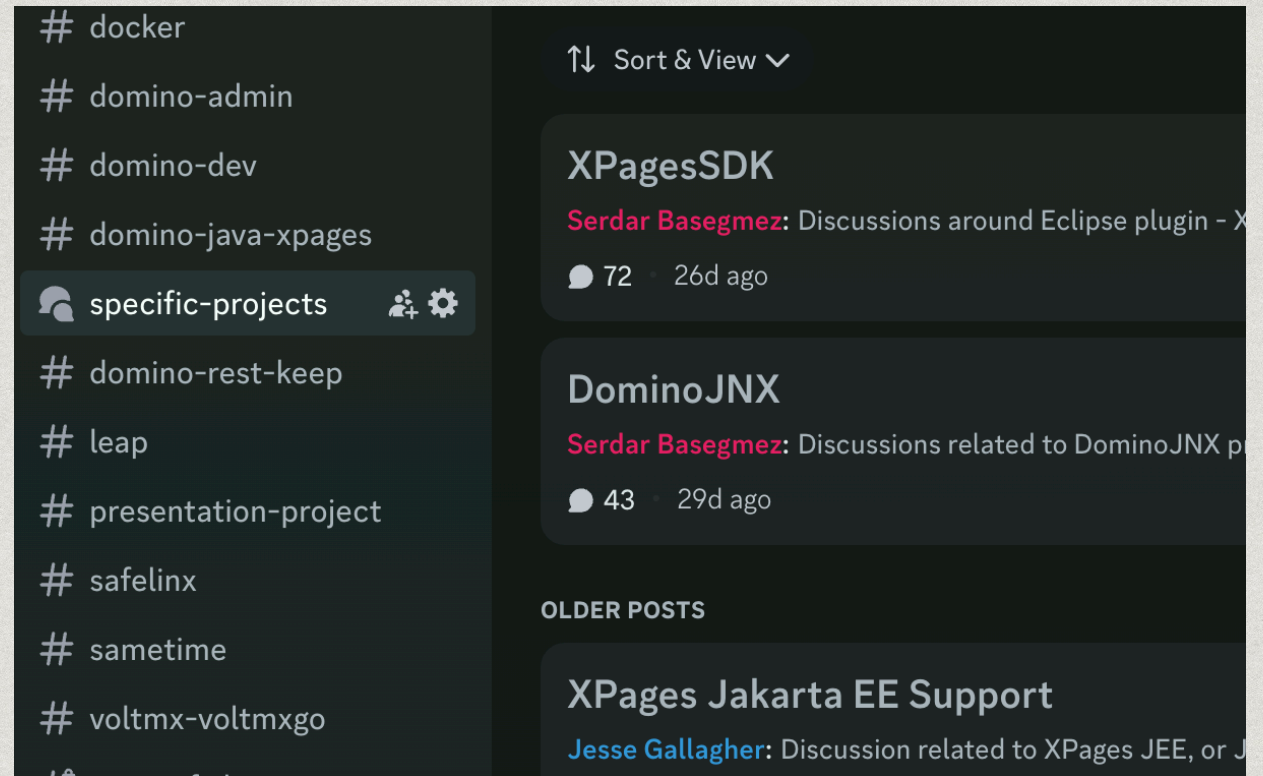
Agenda

- * Open Source Involvement
- * Guests!
 - * Karsten Lehmann: Domino JNA
 - * Paul Withers: Bali Unit
 - * Alec Vincent Bardiano: DRAPI Node.JS and Go SDKs
- * Me!
 - * Domino JNX
 - * Domino Rust Addin
 - * XPages Jakarta EE
 - * HCL's Open-Source NTFs
- * Q&A

OPEN SOURCE INVOLVEMENT

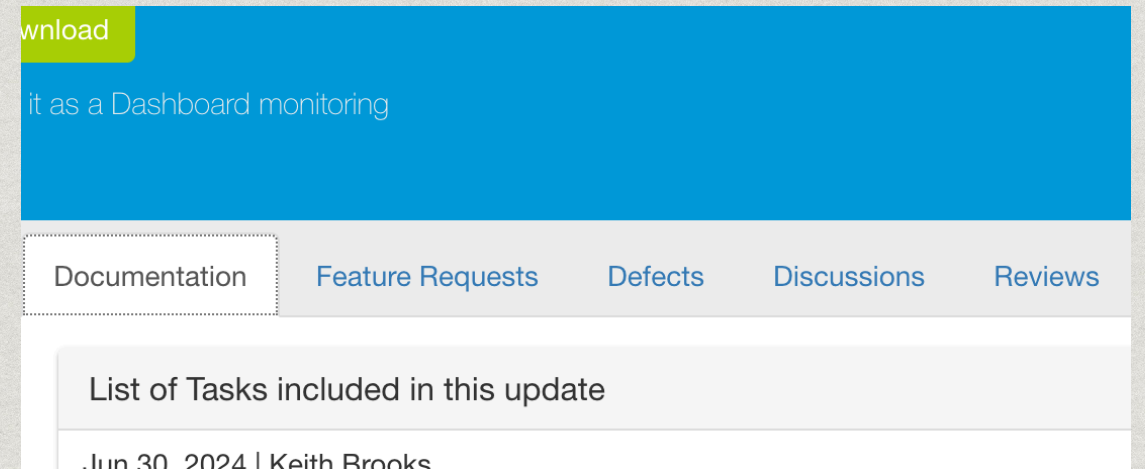
Involvement

- * (Almost) anything helps!
 - * Code contributions
 - * Documentation contributions
 - * Writing issues
 - * *Answering* issues
 - * Discord chat
 - * Blog posts
 - * Videos



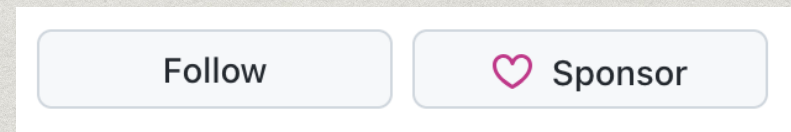
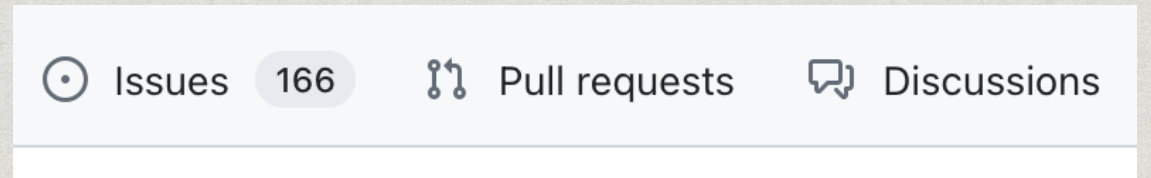
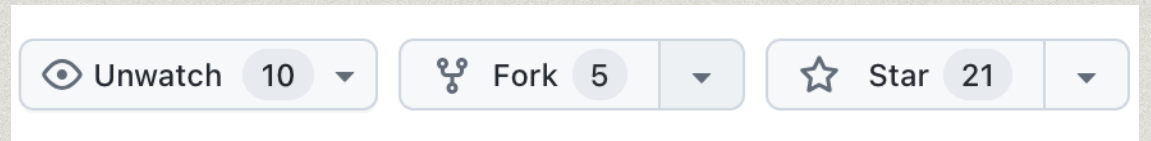
Participating on OpenNTF

- * Post a snippet: <https://openntf.org/XSnippets.nsf>
- * Create a full project
- * Post on a project page
- * Join Discord: <https://openntf.org/discord>

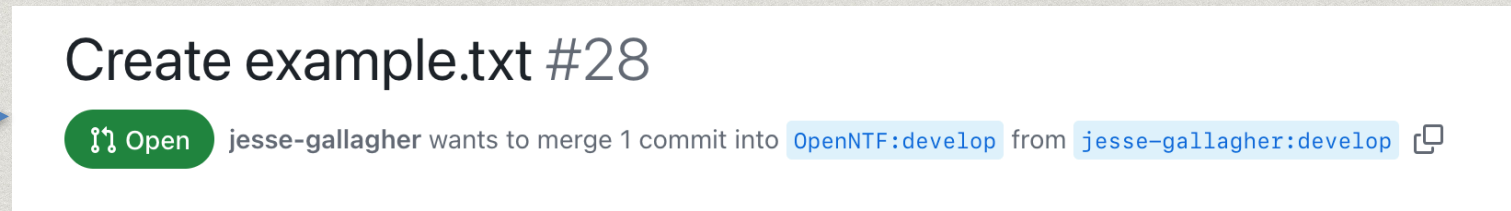
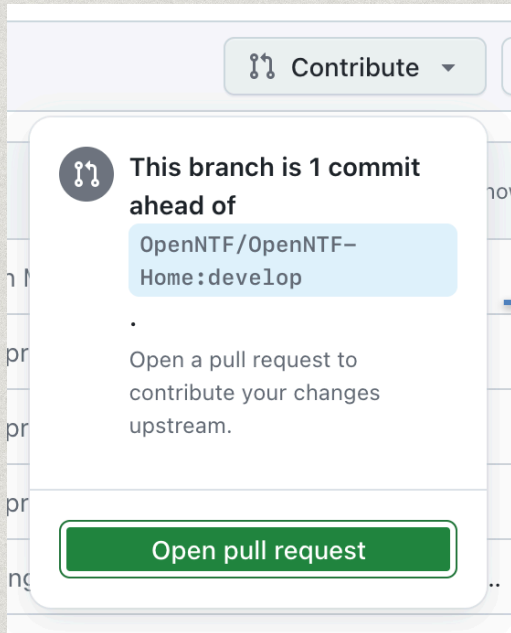
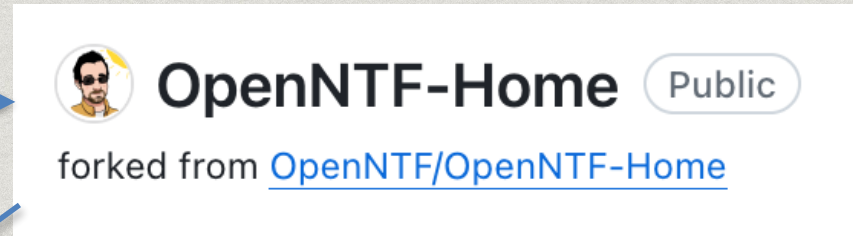


Participating on GitHub

- * Upload any of your code
- * Fork an existing project
 - * Make a PR with your changes
- * Post/reply to issues
- * Watch and star repositories (just sort of nice)
- * Follow or sponsor individual developers



Forking and Pull Requests



Forking and Pull Requests

- * Very intimidating at first!
- * This process is expected and encouraged
- * It's hard (though technically possible) to go wrong
- * Larger projects have procedures and contribution guidelines - read up on them first
 - * Sometimes they'll also have automatic build actions, which can help prevent trouble
- * Search "openntf github" on YouTube for the webinar from 2021

HCL and Documentation

- * Many products' documentation is on GitHub lately
- * They are very receptive to fix/improvement pull requests
- * Great way to get started with PRs: fix a typo, improve some formatting, etc.
- * (still feel free to bug HCL for larger fixes, though)

8 results for all repositories matching docs sorted by last updated

volt-mx-docs Public

Official documentation for HCL Volt MX (<https://www.hcltechsw.com/volt-mx>). The site is located at opensource.hcltechsw.com/volt-mx-docs/

HTML 6 Apache-2.0 7 2 0 Updated yesterday

domino-c-api-docs Public

The Domino C-API is a set of subroutines and data structures that allows you to write Domino databases.

3 Apache-2.0 1 0 0 Updated on May 3

domino-keep-docs Public

Documentation for HCL Domino REST API (Project KEEP)

Batchfile 9 Apache-2.0 7 0 1 Updated on Mar 11

GUESTS!

Domino JNA

- * Featuring Karsten Lehmann
- * <https://github.com/klehmenn/domino-jna/>

Bali Unit for LotusScript

- * Featuring Paul Withers
- * <https://openntf.org/main.nsf/project.xsp?r=project/Bali%20Unit%20for%20LotusScript>

SDKs for DRAPI

- * Featuring Alec Vincent Bardiano
- * Node.JS: <https://github.com/HCL-TECH-SOFTWARE/domino-rest-sdk-node>
- * Node-RED: <https://github.com/HCL-TECH-SOFTWARE/domino-rest-sdk-nodered>
- * Go: <https://github.com/HCL-TECH-SOFTWARE/domino-rest-sdk-go>

OTHER PROJECT GRAB BAG

Domino JNX

- * <https://github.com/HCL-TECH-SOFTWARE/domino-jnx>
- * New Java wrapper for the C API
- * Based originally on Domino JNA, though it's evolved a bit differently
- * Primarily used for DRAPI, but is an independent project
 - * Used for my NSF File System projects, likely to go to NSF ODP and XPages JEE too

Domino JNX

```
return view.query()  
  .selectByKey(path, true)  
  .firstId()  
  .flatMap(database::getDocumentById)  
  .orElseGet(() -> {  
    Document doc = database.createDocument();  
    doc.replaceItemValue(ITEM_PARENT, path);  
    doc.replaceItemValue("$$TITLE", fileName);  
    return doc;  
  });
```

Domino Addin in Rust

- * <https://github.com/HCL-TECH-SOFTWARE/Domino-Rust-JVM-Addin>
- * Shows how to use Rust to write a Domino addin - calling some C methods - that then loads up a JVM
- * Can be used to write bootstrap something similar to DRAPI
 - * Can also be used as the basis for a Rust-only addin, or to load up other code

Domino Addin in Rust

```
#[link(name = "notes")]
extern "C" {
    // osfile.h
    fn OSGetDataDirectory(retPathName: *mut i8);
}

pub fn data_dir() -> PathBuf {
    let data_dir: PathBuf;
    unsafe {
        let mut ret_path_name = vec![0; MAXPATH];
        let ptr = ret_path_name.as_mut_ptr() as *mut i8;
        OSGetDataDirectory(ptr);
        data_dir = Path::new(CStr::from_ptr(ret_path_name.as_ptr()).to_str().unwrap()).to_owned();
    }
    return data_dir;
}
```

XPages Jakarta EE

- * <https://github.com/OpenNTF/org.openntf.xsp.jakartaee/>
- * Recently hit version 3.0
 - * Breaking changes (hopefully the only ones for a long while)
 - * Moved to Jakarta EE 10 as a baseline (new features!)
 - * Requires Domino 14 (should be the same baseline for JEE 11 too)

Open-Source NTFs

- * <https://opensource.hcltechsw.com/>
 - * Search for "ntf"
- * Not exactly active projects, but of interest for parts or for distributing variants
 - * They used to be in a quasi-open state

domino-
comparedbs-ntf

HCL Domino

Template :

"Compare DBs"

domino

Not Identified

Apache License 2.0

domino-
doclibrary.ntf

HCL Domino

Template

"Document Library"

domino

Not Identified

Apache License 2.0

domino-rss-
generator-ntf

HCL Domino

Template : "Domino

RSS Feed

Generator"

domino

Not Identified

Apache License 2.0

domino-
notebook-ntf

HCL Domino

Template :

"Notebook"

domino

Not Identified

Apache License 2.0