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VoltScript Overview

HCL Labs - Volt MX Go Team

DISCLAIMER

Agenda

- Why VoltScript?
- Engage 2022
- Engage 2023
- Early Access 1
- Early Access 2
- VoltScript in Foundry NOW
- Call To Action

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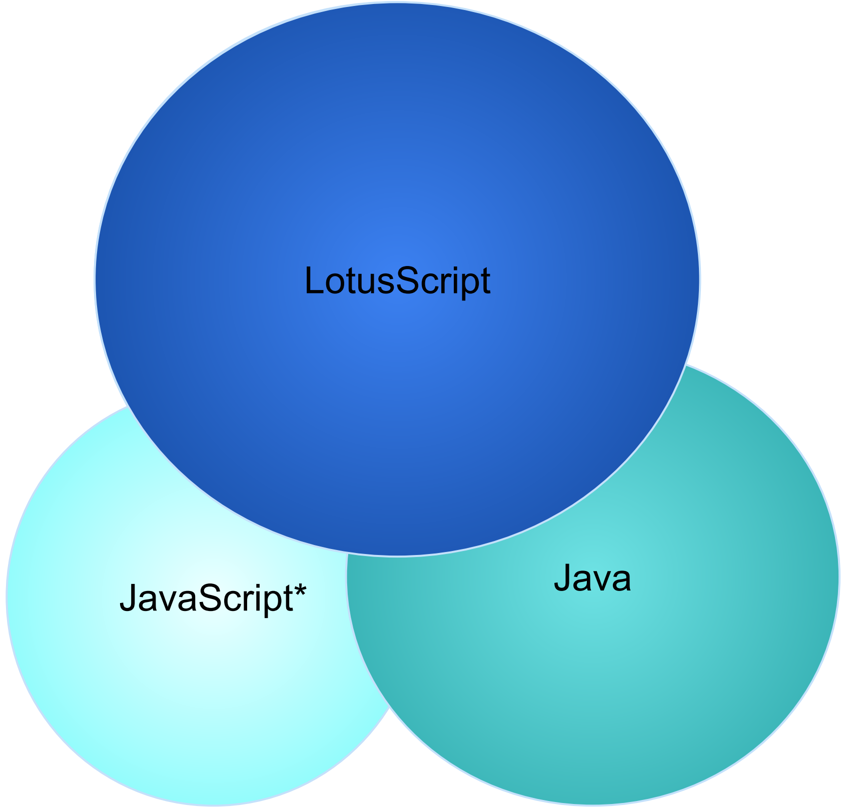
Why VoltScript?

Domino Developer Ecosystem

“Classic” JS
jQuery / Dojo
ECMAScript 5
ECMAScript 6
Node.js
TypeScript



Java 1.5
Java 8
Java 11
Java 17
Java 21

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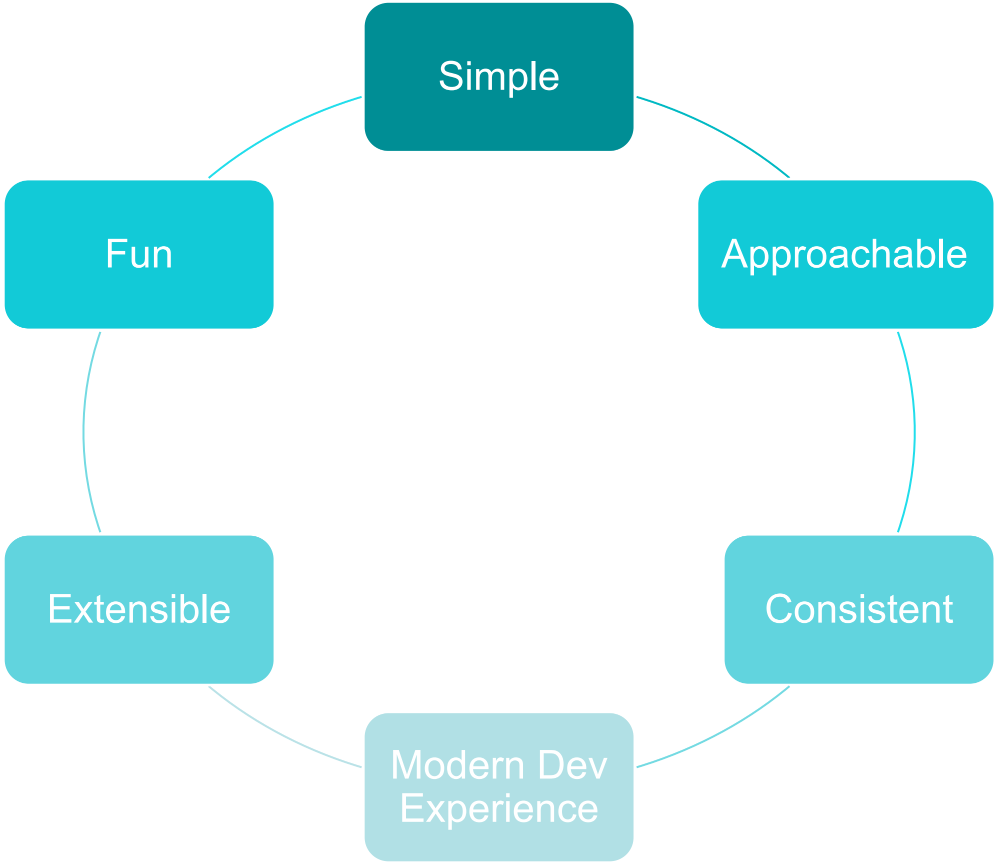
Our Guiding Principles



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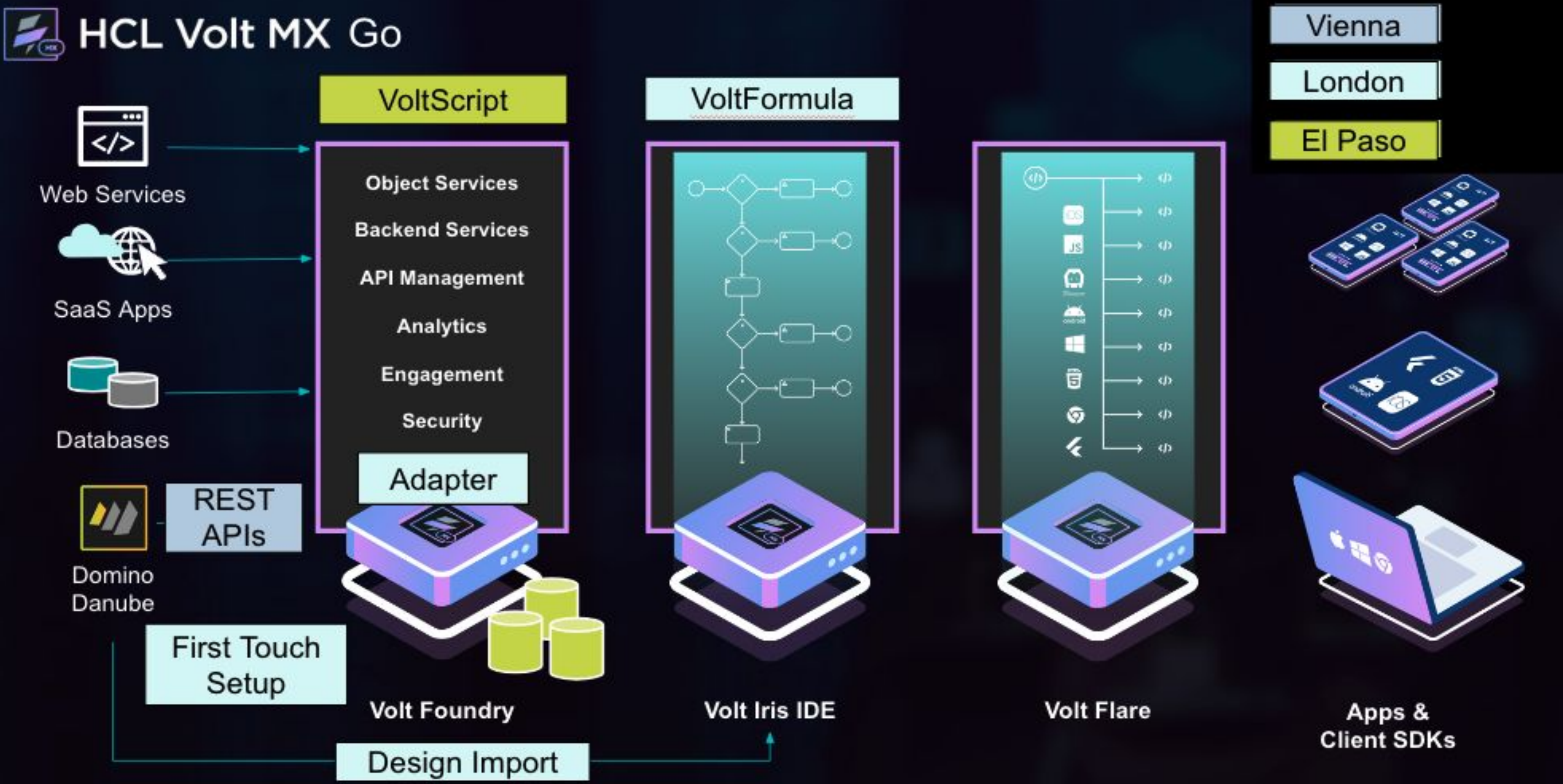
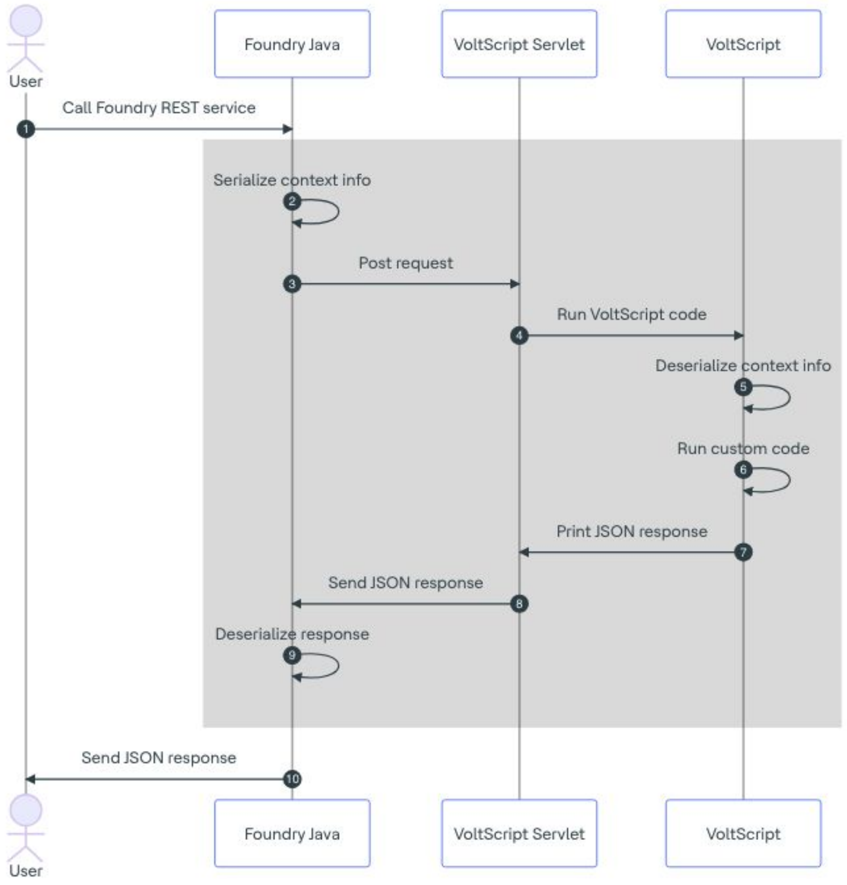


VoltScript is Middleware



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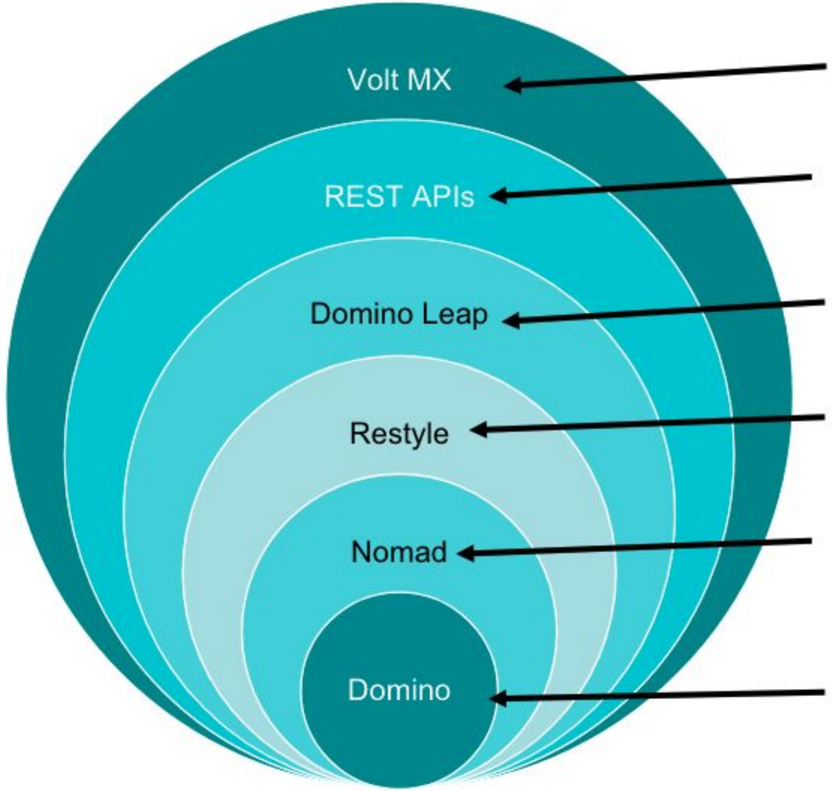
Options for Modernizing your Domino apps



Native Multiexperience Apps
Integrate Anything

Java, HTML, Odata, NodeRed & more…
OpenAPI standard

Situation Apps & Workflows
No code required, used by business users

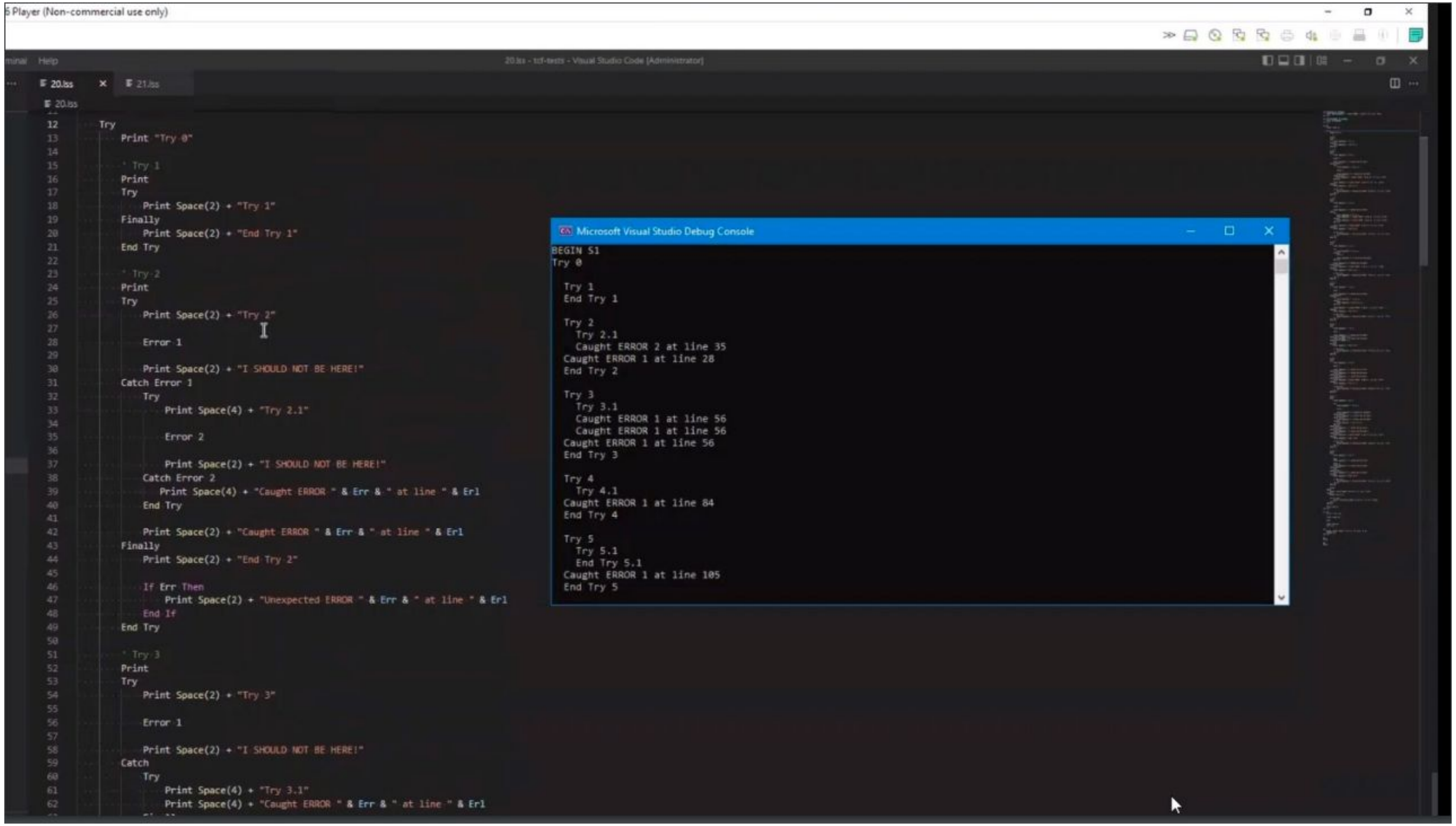
Updated UI experience for existing apps
Quick update in minutes

Desktop Independence
Web & Mobile without re-coding

Existing app investment
Cloud-native delivery

Engage 2022

Where were we at Engage 2022?


5 Player (Non-commercial use only)
20.lss - tcf-tests - Visual Studio Code [Administrator]
20.lss
21.lss
Microsoft Visual Studio Debug Console

```
12  Try
13      Print "Try 0"
14
15      ' Try 1
16      Print
17      Try
18          Print Space(2) + "Try 1"
19      Finally
20          Print Space(2) + "End Try 1"
21      End Try
22
23      ' Try 2
24      Print
25      Try
26          Print Space(2) + "Try 2"
27
28          Error 1
29
30          Print Space(2) + "I SHOULD NOT BE HERE!"
31      Catch Error 1
32          Try
33              Print Space(4) + "Try 2.1"
34
35              Error 2
36
37              Print Space(2) + "I SHOULD NOT BE HERE!"
38          Catch Error 2
39             Print Space(4) + "Caught ERROR " & Err & " at line " & Erl
40          End Try
41
42          Print Space(2) + "Caught ERROR " & Err & " at line " & Erl
43      Finally
44          Print Space(2) + "End Try 2"
45
46          If Err Then
47              Print Space(2) + "Unexpected ERROR " & Err & " at line " & Erl
48          End If
49      End Try
50
51      ' Try 3
52      Print
53      Try
54          Print Space(2) + "Try 3"
55
56          Error 1
57
58          Print Space(2) + "I SHOULD NOT BE HERE!"
59      Catch
60          Try
61              Print Space(4) + "Try 3.1"
62              Print Space(4) + "Caught ERROR " & Err & " at line " & Erl
```

```
BEGIN S1
Try 0

  Try 1
  End Try 1

  Try 2
    Try 2.1
    Caught ERROR 2 at line 35
  Caught ERROR 1 at line 28
  End Try 2

  Try 3
    Try 3.1
    Caught ERROR 1 at line 56
    Caught ERROR 1 at line 56
  Caught ERROR 1 at line 56
  End Try 3

  Try 4
    Try 4.1
  Caught ERROR 1 at line 84
  End Try 4

  Try 5
    Try 5.1
    End Try 5.1
  Caught ERROR 1 at line 105
  End Try 5
```

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Engage 2023

Where were we last year?

Language Enhancements

Supported stack trace

Return keyword

New mathemetical operators (++ etc)

New inequality operator alias (!= as well as <>)

Short-circuit conditionals (&& and ||)

Developer Environment

VS Code extension

DevContainer

Code running in VS Code, command line and Java

Foundry pre/postprocessor POC

Unit tests

Dependency Management

VSID (revamped LSX Toolkit)

Where were we last year?

VoltScript Extensions

ContextVSE

StreamVSE

JsonVSE

WebVSE

ZuluVSE

OSUtilsVSE

ZipVSE

HashVSE

KeepVSE

CouchVSE

VoltScript Library Modules

VoltScript Testing Framework

- Already open sourced
- Also ported to LS on OpenNTF

VoltScript JSON Converter

VoltScript Collections

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Early Access 1

Early Access 1

Released September 2023

Enhanced VSEs

- Published to Volt MX Marketplace

Automated build pipelines and testing

VoltScript JSON Converter and VoltScript Collections open sourced

VoltScript Console Colors open sourced

DevContainer Docker image on Harbor

Windows zip file

Build Management VS Code extension

Full documentation

- API docs and unit test reports
- How-to guide samples and tutorials

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Early Access 2 / Engage 2024

Early Access 2

- VoltScript VoltMX Middleware
- Updated VSEs
    - Working in Foundry
    - New APIs and fixes
- XML VSE
- New Windows package
    - Now on HCL Software downloads site
- New Docker image

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Hot Off The Press!

Further enhancements to VSEs

- You talk, we act

VSEs and VoltScript runtime updated for ubi-8 minimal

Updated dev container - ubi-8 minimal

Fixes to VoltScript JSON Converter and VoltScript Collections

VoltScript Interface Designer open sourced

VoltScript HTTP server - internal access only

VoltScript debug server

VoltScript VoltMX Middleware

New tutorials - get ready for Foundry

VoltScript in Foundry

Integration Services

- Unit testing and local HTTP testing context
- Edit in Foundry

Pre/postprocessors

- Snippets
- Monaco editor content assist

Foundry snippets for atlas.json and integration services

Package for Foundry

LS → VS planning

LotusScript → VoltScript

NotesUIDocument, Selected documents → UNIDs as input parameters ← Same as XPages, Domino web

NotesUIWorkspace.Prompt/DialogBox → input parameters ← Same as XPages, Domino web

NotesSession → KeepServer + JWT token

NotesDatabase → KeepScope

NotesDocument → KeepDocument

NotesItems → JSON objects

NotesViewEntryCollection → JSON object

View entry / document collection update → KeepScope bulk operations ← embrace DQL

OpenLog → logging, KeepDocument create

Print statements, messageboxes, refreshing UI → JSON return messages ← Same as XPages

HINT: Profile your agents and LotusScript libraries, identify optimisations for remote running

Call to Action

- Download VoltScript EA2
- Think “testable code” – use LotusScript port of VoltScript Testing
- Think “middleware” – HTTP timeouts, data is remote and JSON
- Read the documentation
- Try the samples
- Review Language Enhancements
- Review VoltScript Extensions and Libraries
- Share your thoughts and experiences

Questions?

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Get Started with Volt MX Go today!

Hosted Free Trial

Try it now on HCL Sofy!

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- Self Learning Courses

Webinar Series
- Intro and Deep dive content

VoltScript Preview
- Early Access

BP Enablement Webinar

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