



instantiations

Company and Product Update


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Agenda

- › Company Update
- › Next Product Release
- › How to Get VA Smalltalk
- › Q & A

Company Update

Who is Instantiations?

- › A professional services company committed to the VA Smalltalk Platform through:
 - › Comprehensive Support
 - › Custom Engineering
 - › Training Courses
 - › Community Involvement

Community Involvement

- › Continued Platinum sponsorship of ESUG and FAST conferences
- › Organized Camp Smalltalk this year – Charlotte
- › Sponsor of upcoming Camp Smalltalk – Portland
- › Open collaboration with Github

Evolving the Smalltalk Conversation

- › New Smalltalk developments shared through Github, Twitter, LinkedIn
- › New approaches and applications for Smalltalk
- › New relationships with the software engineering community to further Smalltalk adoption

Customer Collaboration

- › JIT compiler partnership with ETAS

Research & Development

- › Machine Learning & Artificial Intelligence
- › VA Smalltalk now runs on ARM/ARM64
- › IoT (Internet of Things)

Insights from IoT

- › Instantiations is a sponsor of RIoT
 - › <https://ncriot.org>

"RIoT represents a network of technologists, engineers, business leaders, academics, policy makers, and entrepreneurs, all of whom have a stake in the Internet of Things industry."

IoT Demo Night

- › Later this year, at the “All Things Open” Conference in Raleigh, US
 - › 4000+ attendees
- › Instantiations will be exhibiting and showing the power and value of Smalltalk

Next Product Release

VA Smalltalk 9.2 Major Features

- › New JIT Compiler
 - › VA8.0.2 32-bit 17.5 sec
 - › VA9.0.1 32-bit 21.5 sec
 - › **VA9.2 JIT 12.8 sec**

VA Smalltalk 9.2 Major Features (cont.)

- › HiDPI
 - › Native and Emulated Widgets
 - › Font and Icon Scaling
 - › Sharper/Cleaner User Interfaces

VA Smalltalk 9.2 Major Features (cont.)

- › IMAP
 - › SSL/TLS, Compression IDLE (aka Server Push), SASL-IR, ESEARCH, Sort/Thread, ACL, Enable, Namespaces, Quotas, non-synchronized literals, MOVE, UIDPLUS...
- › SMTP
 - › SSL/TLS
 - › ESMTP

VA Smalltalk 9.2 Major Features (cont.)

- › PostgreSQL
 - › Native Driver
 - › Integrates into Database Abstraction Layer

VA Smalltalk 9.2 Features

- › SSL/Cryptography
 - › LibreSSL support
 - › Probabilistic Signature Schemes (RSA-PSS)
 - › Version-Transparent Algorithm Accessors
 - › Elliptic-Curve, Diffie-Hellman, RSA, DSA

VA Smalltalk 9.2 Features (cont.)

- › HTTP(s) Client
 - › PUT/DELETE Support
 - › Server Name Identification (SNI)
 - › Absolute/Relative Redirects

VA Smalltalk 9.2 Features (cont.)

- › Compression/Streams New Additions
 - › ZStandard
 - › Brotli

VA Smalltalk 9.2 Features (cont.)

- › FFI (Foreign-Function Call Interface)
 - › Significant Performance Increase
 - › Support for “Struct Return By Value”

VA Smalltalk 9.2 Features (cont.)

- › PNG
 - › 20x Performance Increase in PNG Reader
 - › PNG Interlaced Frame Handlers

VA Smalltalk 9.2 Features (cont.)

- › Unicode/Codepage
 - › New EsCodePageUtilities
 - › Lots of Seaside Updates (WAUrl, WAFileLibrary)
 - › Major Grease Improvements (GRVASTUtf8Codec)
 - › ZipStreams support UTF-8 encoded filenames
 - › Iconv Fixes for 64-bit
 - › ICU Integration into VM Build
 - › VASmalltalk Github Soon

VA Smalltalk 9.2 Features (cont.)

- › Code Editor GPU-rendering (DirectWrite)
- › STON Feature
- › NeoCSV Feature
- › Static-Analyzer in Packager Rules
- › Cross-Development Enhancements (XD)
- › 100+ enhancements/fixes

How to Get VA Smalltalk

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Thank you for your attention


Questions?


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