Company and Product Update
Neuquén, Argentina – November 14, 2019

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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

› Sponsored 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.”
Success at IoT Demo Night

- Demo Night at “All Things Open” Conference in Raleigh, US
  - 4000+ attendees

- Instantiations exhibited and showed 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
  › Internationalized Email (UTF-8)
VA Smalltalk 9.2 Major Features (cont.)

› SASL Authentication Framework
  › OAUTH2
  › SCRAM-SHA-256
  › SCRAM-SHA-2
  › CRAM-MD5
  › LOGIN
  › PLAIN
  › Supports SASL-IR
  › Custom SASL Builder
VA Smalltalk 9.2 Major Features (cont.)

› PostgreSQL
  › Native Driver
  › Integrates into Database Abstraction Layer
  › Fully compatible with GLORP
VA Smalltalk 9.2 Features

› SSL/Cryptography
  › TLS 1.3 support
  › 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)
› 300+ enhancements/fixes
How to Get VA Smalltalk
Download evaluation copy
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Questions?

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