Publishing Libraries & Frameworks Sven Van Caekenberghe

Pharo is a platform

Enables you to write real world applications

Pharo is open source, has an eco system & active community

Pharo needs 3rd party libraries & frameworks

Solve specific enterprise & application needs

Connect & interface to the outside world

You wrote something that might be useful to others

Consider giving back to the community

Publish your library or framework as open source

Pro's

- more users, more testers, more feedback
- feature requests, feature additions
- higher quality, better maintenance

Con's

- more work, more responsibility
- a commitment for the future
- need for support, need for marketing

Pharo eco system offers various free tools

Write, publish & maintain high quality code

Let's get started

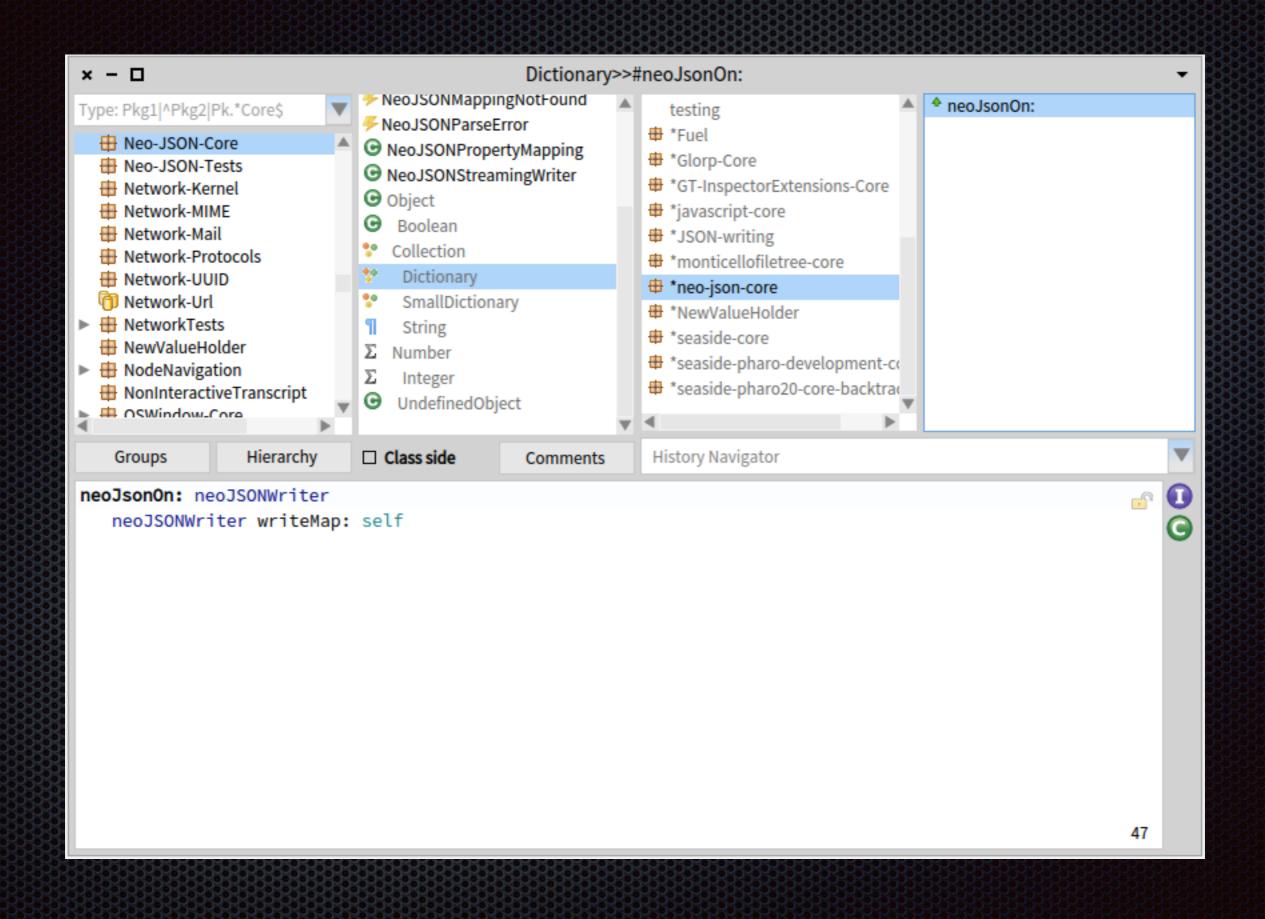
Define your component, library, framework Boundaries Dependencies

Source Code

Source code package definition > Monticello, RPackage

Package names Name space prefix Extensions

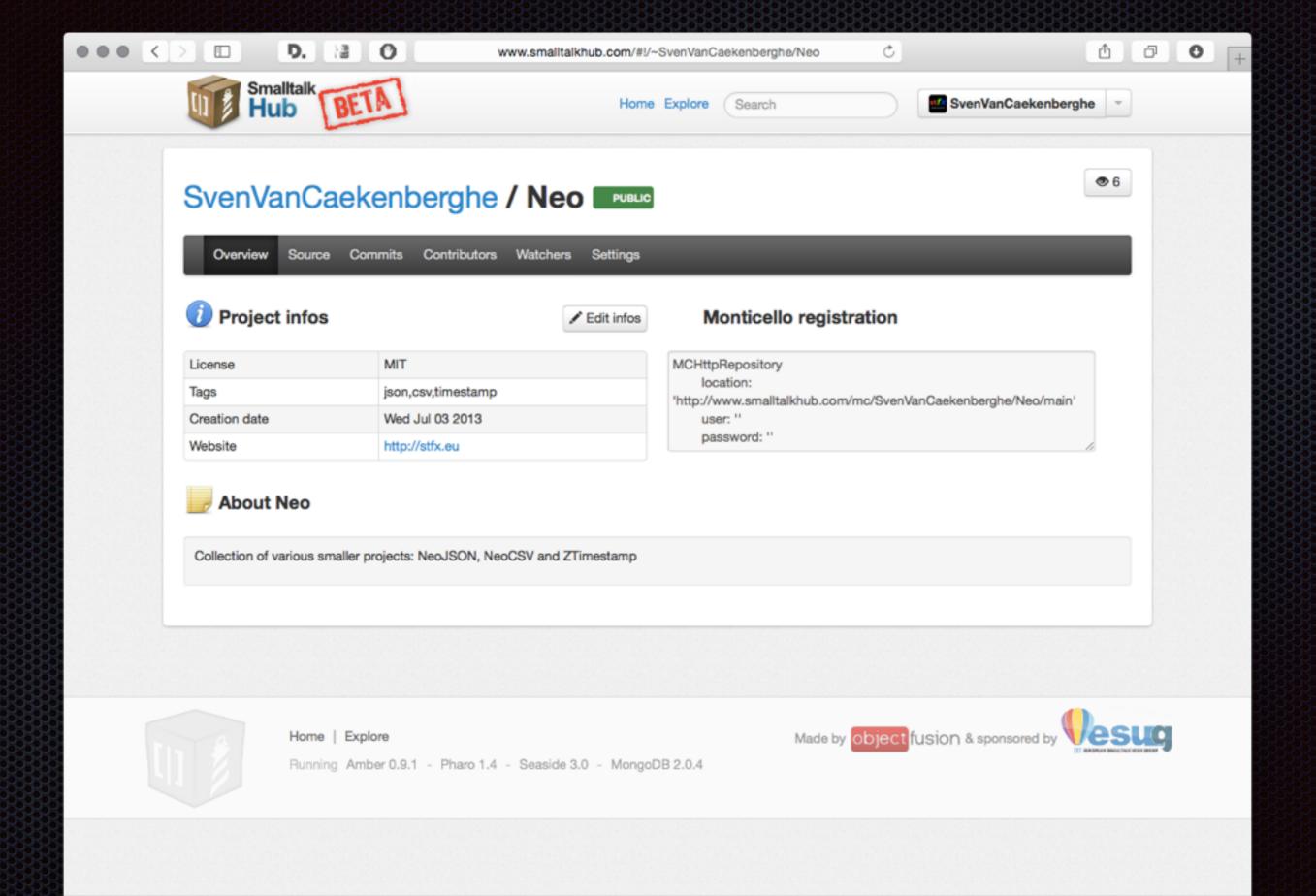
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× − □ NeoJSONReader -										
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Groups Hierarchy		Class side Comments	Y	History Navigator						
NeoJSONMapper subclass:		'readStream stringStream	li	stClass mapClass propertyNam	mesAsSymbols'					



Source code management > Monticello

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Repository > SmalltalkHub, github, ...

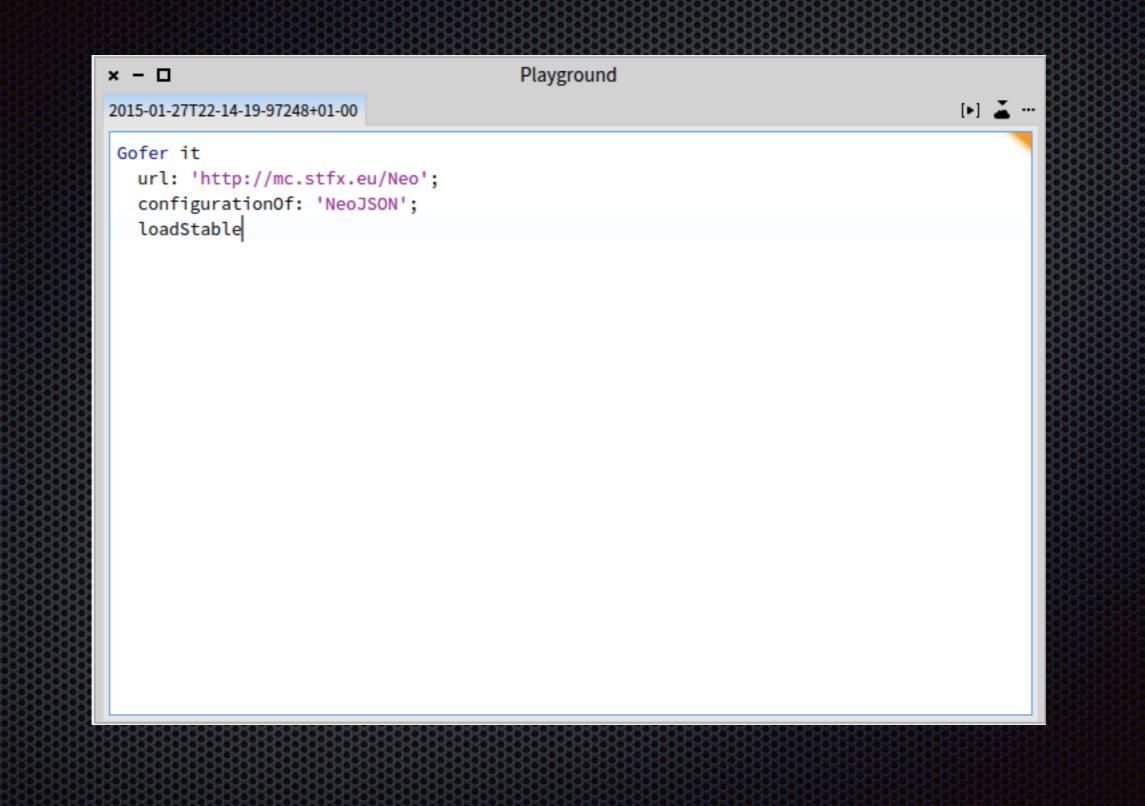


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svenvc / NeoJSC	N		③ Unwatch → 3	★ Star 5 V Fork 3
NeoJSON is an elegant a from Smalltalk objects. —		malltalk framework to read and w	rite JSON converting to or	<> Code
⑦ 7 commits	₽ 1 branch	○ 0 releases	n contributor	① Issues 1
👔 👂 branch: master 🗸	NeoJSON / +			1 Pull Requests
sync with upstream #stable v9				🕮 Wiki
Sven Van Caekenberghe au	thored on Apr 24, 2014		latest commit de564111a9	
repository	sync with upstream #stab	le v9	9 months ago	L Crasha
README.md	Update README.md		2 years ago	III Graphs
license.txt	added MIT license		2 years ago	X Settings
III README.md				HTTPS clone URL
				https://github.com/sven
NeoJSO	N			You can clone with HTTPS, SSH, or Subversion. ()
NeoJSON is an elega	int and efficient standalor	ne Smalltalk framework to read a	nd write JSON	Clone in Desktop
converting to or from				C Download ZIP
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Source code management > Metacello

One-click loading One-expression loading One-command loading

Configuration browser × - D Hit return to accept ReoJSON (SvenVanCaekenberghe.10) 🧐 Nireas (kilonAlios.2) OSLinuxUbuntu (TorstenBergmann.5) OSOSX (TorstenBergmann.1) OSProcess (BenComan.36) OSUnix (TorstenBergmann.3) OSWindows (TorstenBergmann.42) PackageDependenciesAnalysis (BaptisteQuide.3) Periscope (PavelKrivanek.17) Pomodoro (TorstenBergmann.6) PunQLite (TorstenBergmann.22) RemoteAnnouncement (JurajKubelka.9) SandstoneDb (TorstenBergmann.5) Load Configuration Install Stable Version



prometheus:pharo4 sven\$./pharo Pharo.image config http://mc.stfx.eu/Neo ConfigurationOfNeoJSON --install=stable 'Installing ConfigurationOfNeoJSON stable' Loading 9 of ConfigurationOfNeoJSON... Fetched -> Neo-JSON-Core-SvenVanCaekenberghe.27 --- http://mc.stfx.eu/Neo --- http://mc.stfx.eu/Neo Fetched -> Neo-JSON-Tests-SvenVanCaekenberghe.24 --- http://mc.stfx.eu/Neo --- http://mc.stfx.eu/Neo Fetched -> Neo-JSON-Core-SvenVanCaekenberghe.24 --- http://mc.stfx.eu/Neo --- http://mc.stfx.eu/Neo Loaded -> Neo-JSON-Core-SvenVanCaekenberghe.27 --- http://mc.stfx.eu/Neo --- cache Loaded -> Neo-JSON-Tests-SvenVanCaekenberghe.24 --- http://mc.stfx.eu/Neo --- cache Dependency management Version management Platform management

baseline1: spec

<version: '1-baseline'>

spec for: #common do: [

spec

blessing: #baseline; author: 'Sven Van Caekenberghe'; repository: 'http://smalltalkhub.com/mc/SvenVanCaekenberghe/Reddit/main/'.

spec project: 'Seaside3' with: [

spec

className: 'ConfigurationOfSeaside3';

versionString: #stable;

repository: 'http://www.smalltalkhub.com/mc/Seaside/MetacelloConfigurations/main'].

spec project: 'Glorp' with: [

spec

className: 'ConfigurationOfGlorp';

versionString: #stable;

repository: 'http://www.smalltalkhub.com/mc/DBXTalk/Configurations/main'].

spec project: 'PostgresV2' with: [

spec

className: 'ConfigurationOfPostgresV2';

versionString: #stable;

repository: 'http://www.smalltalkhub.com/mc/PharoExtras/PostgresV2/main'].

baseline1: spec (cont'd)

spec

package: 'GlorpDriverPostgreSQL'
with: [

spec

repository: 'http://www.smalltalkhub.com/mc/PharoExtras/PostgresV2/main'; postLoadDolt: #postLoadGlorpPostgresNativeDriverDBXTalkPharo; requires: #('Glorp' 'PostgresV2')].

spec

package: 'Reddit'
with: [spec requires: #('Seaside3' 'GlorpDriverPostgreSQL')].

spec group: 'Core' with: #('Reddit').
spec group: 'default' with: #('Reddit')]

Configuration browser One-click install Blessed repo for configurations



Unit Tests Functional Tests Regression Tests

Validate & Protect your code base

Facilitate
> refactoring
> porting
> contributions

"Something not tested does not exist"

"How To" Unit Tests Live, validated examples



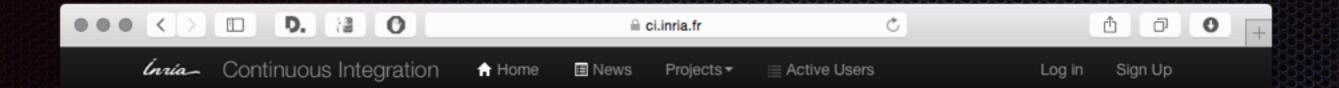
Code critics Lint rules

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Possible missing "; yourself" (T											
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Returns a boolean and non bo	olean (To sort: 0, ToDo: 0, Wrong: 0)										
Returns value of ifTrue:/ifFalse	: without ifFalse:/ifTrue: block (To sort:										
Subclass of collection that has	instance variable but doesn't define co										
Temporaries read before writte	en (To sort: 1, ToDo: 0, Wrong: 0)										
Uncommon message send (To	sort: 0 ToDo: 0 Wrong: 0)										
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Time/space profilers Coverage tools



Continuous Integration



Continuous Integration, Inria

Simple and flexible platform to improve your Quality of Software and reduce wasted time.

🔩 Host my project	Read Documentation
1 Users : 649	Projects : 231

Designed for Inria and its Partners.

Why do I need your service? Read below

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Independent, controlled build For each change in source, dependencies or platform

Based on Configuration target Based on Source code repo

Build Matrix Versions, Platforms, VMs

Run all tests Notify on failure Build artefacts

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NeoJSON Jenkins

Back to Dashboard

Status

Changes -

- Workspace
- (\mathbf{x}) Build Now
- 0 Delete Multi-configuration project

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× Configure

- 30b Config History
- V Embeddable Build Status
- URLTrigger Log

₩.	Build	History	(trend) =
•	#461	Jan 27, 2015 8:32:00 AM	63 MB
•	#460	Jan 26, 2015 8:32:00 AM	C63 MB
•	#459	Jan 25, 2015 8:32:00 AM	B323 KB
•	#458	Jan 24, 2015 8:32:00 AM	B 324 KB
•	#457	Jan 23, 2015 8:32:00 AM	B 324 KB
•	#456	Jan 22, 2015 8:32:00 AM	L 324 KB
0	#455	Jan 21, 2015 8:32:00 AM	C24 KB
	#453	Jan 19, 2015 8:46:33 PM	C23 KB
•	#452	Jan 17, 2015 8:32:01 AM	в 72 кв
•	#451	Jan 16, 2015 8:32:01 AM	€ 323 KB
•	#450	Jan 15, 2015 8:32:01 AM	C323 KB
•	#449	Jan 14, 2015 8:32:01 AM	C323 KB
•	#448	Jan 13, 2015 8:32:01 AM	C323 KB
•	#447	Jan 12, 2015 8:32:01 AM	B323 KB

Project	NeoJSON

NeoJSON is an elegant and efficient standalone Smalltalk framework to read and write JSON converting to or from Smalltalk objects.

Configuration Matrix stable bleedingEdge 20 30 0 40 Project disk usage information + trend graph



Disk Usage Trend

Disk Usage: Workspace 69632, Builds (all=139874946, locked=814283), Job directory 140036073

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(?) sven@stfx.eu | log out

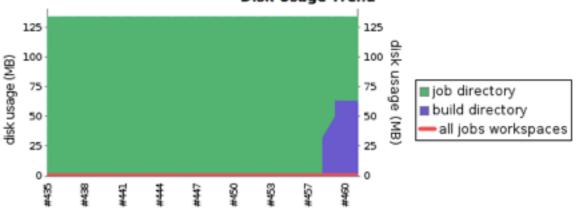
ENABLE AUTO REFRESH

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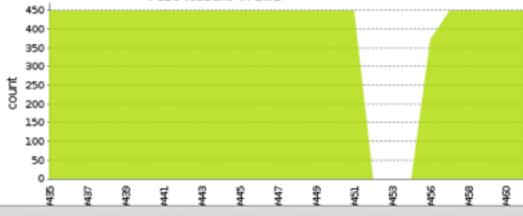
Disable Project

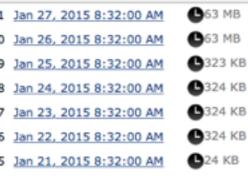
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Test Result Trend





- #446 Jan 11, 2015 8:32:01 AM C323 KB 0
- C323 KB
- #445 Jan 10, 2015 8:32:01 AM ٠

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Jenkins > NeoJSON > configuration Execute shell Command # jenkins puts all the params after a / in the job name as well :(export JOB_NAME=NeoJSON wget --quiet -O - get.pharo.org/\$PHARO+\$VM | bash ./pharo Pharo.image save \$JOB_NAME --delete-old ./pharo \$JOB_NAME.image --version > version.txt REPO-http://smalltalkhub.com/mc/SvenVanCaekenberghe/Neo/main ./pharo \$JOB_NAME.image config \$REPO ConfigurationOf\$JOB_NAME --install=\$VERSION ./pharo \$JOB_NAME.image test --junit-xml-output "Neo-JSON.*" zip -r \$JOB_NAME.zip \$JOB_NAME.image \$JOB_NAME.changes # clean up the workspace to not occupy too much stale space on the slaves rm -rf *.image *.changes See the list of available environment variables Delete Add build step -Post-build Actions Archive the artifacts Files to archive **/*.zip, **/version.txt, **/*Test*.fuel '**/*.zip' doesn't match anything: '**' exists but not '**/*.zip' 2 Advanced... Delete Publish JUnit test result report R Test report XMLs *=-Test.xml ***-Test.xml' doesn't match anything Fileset 'includes' setting that specifies the generated raw XML report files, such as 'myproject/target/test-reports/*.xml'. Basedir of the fileset is the workspace root. Retain long standard output/error Delete E-mail Notification Recipients sven@stfx.eu Save Apply

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log in

Jenkins

Jenkins > NeoJSON ⊭ #462

Back to Project Status

Console Output

40,bleedingEdge,vm

Changes	Started by upstream project
Console Output	"[8mha:AAAAmR+LCAAAAAAAAP9b85aBtbiIQTGjNKU4P08vOT+vOD8nVc83PyU1x6OyILUoJzMv2y+/JJUBAhiZGBgqihhk0NSjKDWzXb3RdlLBUSYGJk8GtpzUvPSSDB8G5tKinBIGIZ+sxLJE/Zz build number
View as plain text	[8mha:AAAAnB+LCAAAAAAAP9b85aBtbiIQTGjNKU4P08vOT+vOD8nVc83PyU1x60yILUoJzMv2y+/JJUBAhiZGBgqihhk0NSjKDWzXb3RdlLBUSYGJk8GtpzUvPSSDB8G5tKinBIGIZ+sxLJE/ZzE originally caused by:
View Build Information	Started by timer
Test Result	Building remotely on pharo-contribution-linux64.ci.inria.fr (32 64 linux) in workspace /builds/workspace/NeoJSON/PHARO/40/VERSION/bleedingEdge/VM/vm
Downstream build view	Deleting project workspace Deleting old artifacts from #460 [vm] \$ /bin/sh -xe /tmp/hudson9024775108308335396.sh
	+ export JOB_NAME=NeoJSON
Previous Build	+ bash
	+ wgetquiet -0 - get.pharo.org/40+vm
	Downloading the latest 40 Image: http://files.pharo.org/image/40/latest.zip
	Pharo.image
	Downloading the latest pharoVM:
	http://files.pharo.org/vm/pharo/linux/stable.zip pharo-vm/pharo
	Downloading PharoV10.sources:
	http://files.pharo.org/sources//PharoV10.sources.zip
	Downloading PharoV20.sources:
	http://files.pharo.org/sources//PharoV20.sources.zip
	Downloading PharoV30.sources: http://files.pharo.org/sources//PharoV30.sources.zip
	Creating starter scripts pharo and pharo-ui
	+ ./pharo Pharo.image save NeoJSONdelete-old
	+ ./pharo NeoJSON.imageversion
	+ REPO= <u>http://smalltalkhub.com/mc/SvenVanCaekenberghe/Neo/main</u> + ./pharo NeoJSON.image config <u>http://smalltalkhub.com/mc/SvenVanCaekenberghe/Neo/main</u> ConfigurationOfNeoJSONinstall=bleedingEdge
	'Installing ConfigurationOfNeoJSON bleedingEdge'
	Loading 2-baseline of ConfigurationOfNeoJSON
	Fetched -> Neo-JSON-Core-SvenVanCaekenberghe.29 http://mc.stfx.eu/Neo http://mc.stfx.eu/Neo Fetched -> Neo-JSON-Tests-SvenVanCaekenberghe.26 http://mc.stfx.eu/Neo http://mc.stfx.eu/Neo
	Loaded -> Neo-JSON-Core-SvenVanCaekenberghe.29 http://mc.stfx.eu/Neo cache
	Loaded -> Neo-JSON-Tests-SvenVanCaekenberghe.26 http://mc.stfx.eu/Neo cache
	finished 2-baseline+ ./pharo NeoJSON.image testjunit-xml-output Neo-JSON.*
	'Running tests in 2 Packages'
	+ zip -r NeoJSON.zip NeoJSON.image NeoJSON.changes adding: NeoJSON.image (deflated 65%)
	adding: NeoJSON.changes (deflated 86%)
	+ rm -rf NeoJSON.image NeoJSON.changes
	Archiving artifacts
	Recording test results
	repression reporter doesn't run because build is success

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🗎 ci.inria.fr/pharo-contribution/job/NeoJSON/462/PHARO=40,VERSION=bil 💍

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Jenkins

Jenkins → NeoJSON → #462

> 40,bleedingEdge,vm > Test Results > Neo.JSON.Tests



Test Result : Neo.JSON.Tests

0 failures (±0)

76 tests (±0) Took 0.35 sec.

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⑦ log in

ENABLE AUTO REFRESH

All Tests

Class	Duration	Fail	(diff)	Skip	(diff)	Pass	(diff)	Total	(diff)
NeoJSONBenchmarkTests	0.33 sec	0		0		4		4	
NeoJSONObjectTests	5 ms	0		0		2		2	
NeoJSONReaderTests	6 ms	0		0		25		25	
NeoJSONWriteReadMockStreamTests	6 ms	0		0		10		10	
NeoJSONWriteReadPrettyPrintedTests	2 ms	0		0		4		4	
NeoJSONWriteReadTests	5 ms	0		0		10		10	
NeoJSONWriterTests	0 ms	0		0		21		21	

Help us localize this page

Page generated: Jan 28, 2015 10:42:18 AM REST API

Q search

Jenkins ver. 1.565.2



Documentation, documentation, documentation

Even well written code needs documentation

Class names Methods names Style & Design

Class comments Method comments Implementation comments

Not the obvious things Rephrase, externalise Guide new users Help System In Image Interactive Tutorial Real, separate documentation

Papers, tutorials, articles, presentations

Pillar Markup Pillar Tool - PillarHub HTML, PDF, Markdown

Markdown Github, SmalltalkHub

Catalog Info on Configurations Project Poster

Use mailing lists Use MC package for contributions Use github issue system - PR Debugging in the field
> PharoDebug.log
> Fuel out stack

Support your software Engage your users

Publishing Libraries & Frameworks Thank you for your attention

Q&A