

Talking About Bugs With Bugs

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Bug Reports

The screenshot shows a bug report interface for 'Pharo5 vm crash on mac'. The report ID is 18872. It is categorized as 'Pharo VM: 2. External' and 'Milestone: Pharo5.0'. The status is 'Assigned To Everyone' with a 'Work Needed' label. The priority is '2 - Really Important'. The platform is 'MacOS'. The report includes a description of the crash, a C stack backtrace, and a Smalltalk stack dump. Annotations are placed over the interface: 'Model' is over the priority and release notes; 'Time' is over the 'Image Version' field; 'Text' is over the description and backtrace; 'Automation' is over the stack dump; and 'Interface' is over the bottom right of the report content.

18872

Pharo5 vm crash on mac

Pharo VM: 2. External | Milestone: Pharo5.0

Assigned To Everyone **Work Needed**

Image Version

Priority
● 2 - Really Important

Release Notes
Add release note

Platform
MacOS

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Dale K. Henrichs
Davide Varvello
Esteban Lorenzano
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Nicolai Hess

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A Man With A Plan

16 9:44 AM

shes these days, but I have no idea on how to reproduce them.

Add release note

05 #50760

I tried with the stable vm (Jenkins build #589) and also with a more recent one (Jenkins build #597). Following an extract of the 2 dumps.

Segmentation fault Mon Jul 18 19:17:

<https://github.com/pharo-project/pharo/issues/50760> Date: 2016-05-04 11:14:22 +0200 By: Esteban Lorenzano <estebanlm@gmail.com>

C stack backtrace & registers:
eax 0x00000000 ebx 0x00047070 ecx 0x00000001 edx 0x00000010
edi 0x0c5ed98b esi 0x0c5ed98b ebp 0xbf5c948 esp 0xbf5c920
eip 0x0c63ec69
0 libfreetype.6.dylib 0x0c63ec69 FT_Done_Face + 57
1 Pharo 0x00069e96 reportStackState + 166

Smalltalk stack dump:

```
0xbffbb814 M FreeTypeFace(FT2Handle)>pvtDestroyHandle 0xad6a760: a(n) FreeTypeFace  
0xbffbb814 M FreeTypeFace(FT2Handle)>finalize 0xad6a760: a(n) FreeTypeFace  
0xbffbb830 M WeakFinalizerItem>finalizeValues 0x92a8be8: a(n) WeakFinalizerItem  
0xbffbb84c M [] in WeakRegistry>finalizeValues 0x7cf3690: a(n) WeakRegistry  
0xbffbb864 M BlockClosure>on:do: 0x74efb18: a(n) BlockClosure  
0xbffbb884 M BlockClosure>on:fork: 0x74efb18: a(n) BlockClosure  
0xbffbb8a4 M [] in WeakRegistry>finalizeValues 0x7cf3690: a(n) WeakRegistry  
0xbffbb8c8 M OrderedCollection>do: 0x74ef6c0: a(n) OrderedCollection  
0xbffbb8f0 M WeakRegistry>finalizeValues 0x7cf3690: a(n) WeakRegistry  
0xbffbb90c M [] in WeakArray class>finalizationProcess 0x7be4fc0: a(n) WeakArray class
```

Image Version

Pharo5.0

Priority

● 2 – Really Important

Release Notes

[Add release note](#)

Platform

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A Man With A Plan

Opened by Davide Varvello 08/05/2016 9:44 AM

I stumbled across several VM crashes these days, but I have no idea on how to reproduce them.

I'm working on mac with `Pharo5 #50760`

I tried with the stable vm (Jenkins build #589) and also with a more recent one (Jenkins build #597).
Following an extract of the 2 dumps.

Segmentation fault Mon Jul 18 19:17:06 2016

<https://github.com/pharo-project/pharo-vm.git> Commit: b8ec25a570d7539653e1d793e97609adb509aaed Date: 2016-05-04 11:14:22 +0200 By: Esteban Lorenzano <estebanlm@gmail.com> Jenkins build #589

C stack backtrace & registers:

```
eax 0x00000000 ebx 0x00047070 ecx 0x00000001 edx 0x00000010
edi 0x0c5ed98b esi 0x0c5ed98b ebp 0xbff5c948 esp 0xbff5c920
eip 0x0c63ec69
0 libfreetype.6.dylib          0x0c63ec69 FT_Done_Face + 57
1 Pharo                       0x00069e96 reportStackState + 166
```

Smalltalk stack dump:

```
0xbffbb71c M [] in FreeTypeFace(FT2Handle)>pvtDestroyHandle 0xad6a760: a(n) FreeTypeFace
0xbffbb73c M BlockClosure>ensure: 0x74efc20: a(n) BlockClosure
0xbffbb760 M [] in Mutex>critical: 0x83dd960: a(n) Mutex
0xbffbb780 M [] in Semaphore>critical: 0x9058d50: a(n) Semaphore
0xbffbb7a0 M BlockClosure>ensure: 0x74efd28: a(n) BlockClosure
0xbffbb7c0 M Semaphore>critical: 0x9058d50: a(n) Semaphore
0xbffbb7e0 M Mutex>critical: 0x83dd960: a(n) Mutex
0xbffbb7fc M FreeTypeFace(FT2Handle)>pvtDestroyHandle 0xad6a760: a(n) FreeTypeFace
0xbffbb814 M FreeTypeFace(FT2Handle)>finalize 0xad6a760: a(n) FreeTypeFace
0xbffbb830 M WeakFinalizerItem>finalizeValues 0x92a8be8: a(n) WeakFinalizerItem
0xbffbb84c M [] in WeakRegistry>finalizeValues 0x7cf3690: a(n) WeakRegistry
0xbffbb864 M BlockClosure>on:do: 0x74efb18: a(n) BlockClosure
0xbffbb884 M BlockClosure>on:fork: 0x74efb18: a(n) BlockClosure
0xbffbb8a4 M [] in WeakRegistry>finalizeValues 0x7cf3690: a(n) WeakRegistry
0xbffbb8c8 M OrderedCollection>do: 0x74ef6c0: a(n) OrderedCollection
0xbffbb8f0 M WeakRegistry>finalizeValues 0x7cf3690: a(n) WeakRegistry
0xbffbb90c M [] in WeakArray class>finalizationProcess 0x7be4fc0: a(n) WeakArray class
```

Assigned To Everyone Work Needed

Image Version

Pharo5.0

Priority

● 2 – Really Important

Release Notes

[Add release note](#)

Platform

MacOS

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Opened by Davide Varvello 08/05/2016 9:44 AM

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C stack backtrace & registers:

```
0x00000000: eip 0x0c63ec69
0 libfreetype.6.dylib 0x0c63ec69 FT_Done_Face + 57
1 Pharo 0x00069e96 reportStackState + 166
```

Smalltalk stack dump:

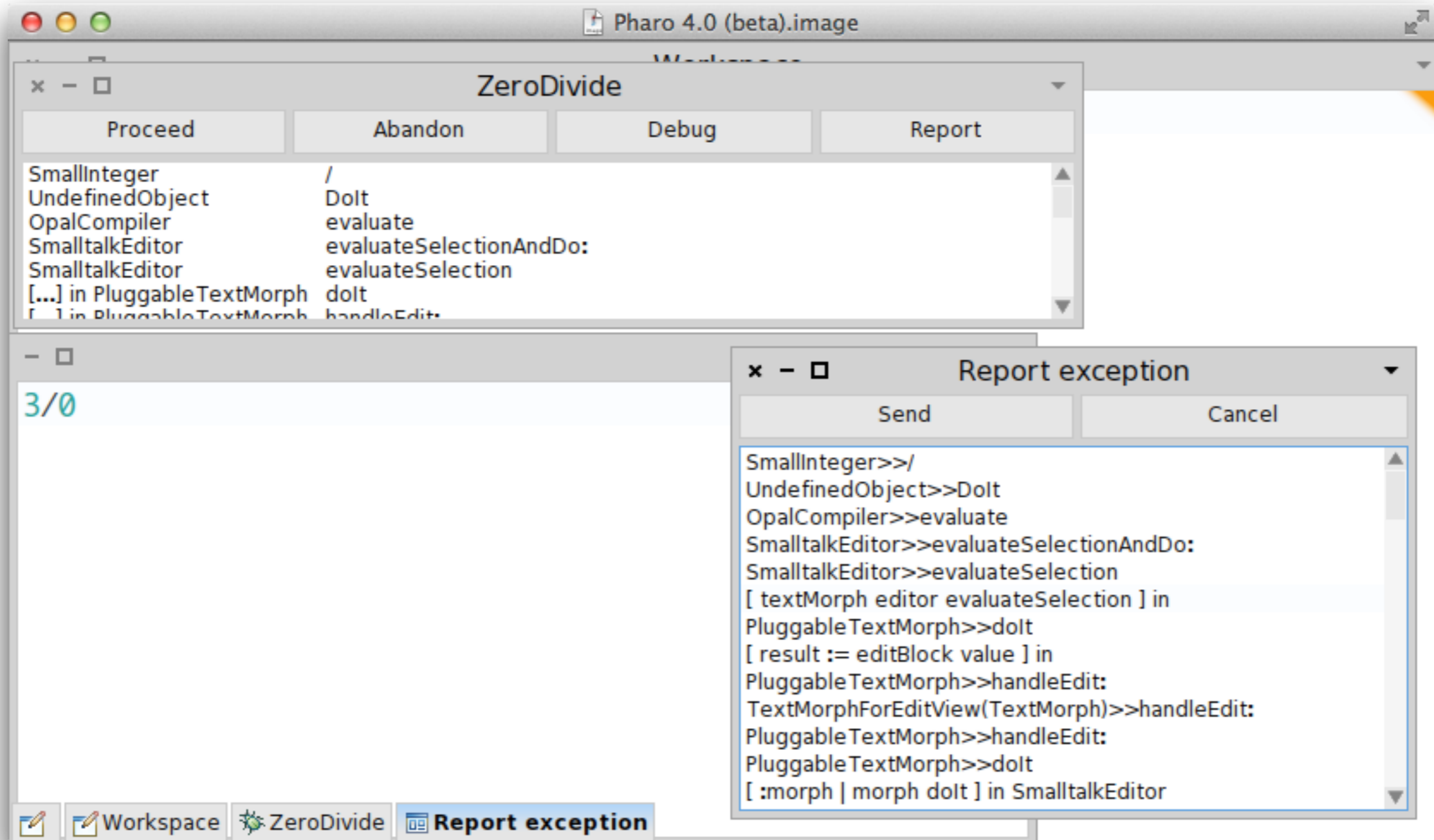
```
0xbffbb71c M [] in FreeTypeFace(FT2Handle)>pvtDestroyHandle 0xad6a760: a(n) FreeTypeFace
0xbffbb73c M BlockClosure>ensure: 0x74efc20: a(n) BlockClosure
0xbffbb760 M [] in Mutex>critical: 0x83dd960: a(n) Mutex
0xbffbb780 M [] in Semaphore>critical: 0x9058d50: a(n) Semaphore
0xbffbb7a0 M BlockClosure>ensure: 0x74efd28: a(n) BlockClosure
0xbffbb7c0 M Semaphore>critical: 0x9058d50: a(n) Semaphore
0xbffbb7e0 M Mutex>critical: 0x83dd960: a(n) Mutex
0xbffbb7fc M FreeTypeFace(FT2Handle)>pvtDestroyHandle 0xad6a760: a(n) FreeTypeFace
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0xbffbb830 M WeakFinalizerItem>finalizeValues 0x92a8be8: a(n) WeakFinalizerItem
0xbffbb84c M [] in WeakRegistry>finalizeValues 0x7cf3690: a(n) WeakRegistry
0xbffbb864 M BlockClosure>on:do: 0x74efb18: a(n) BlockClosure
0xbffbb884 M BlockClosure>on:fork: 0x74efb18: a(n) BlockClosure
0xbffbb8a4 M [] in WeakRegistry>finalizeValues 0x7cf3690: a(n) WeakRegistry
0xbffbb8c8 M OrderedCollection>do: 0x74ef6c0: a(n) OrderedCollection
0xbffbb8f0 M WeakRegistry>finalizeValues 0x7cf3690: a(n) WeakRegistry
0xbffbb90c M [] in WeakArray class>finalizationProcess 0x7be4fc0: a(n) WeakArray class
```

flexibility

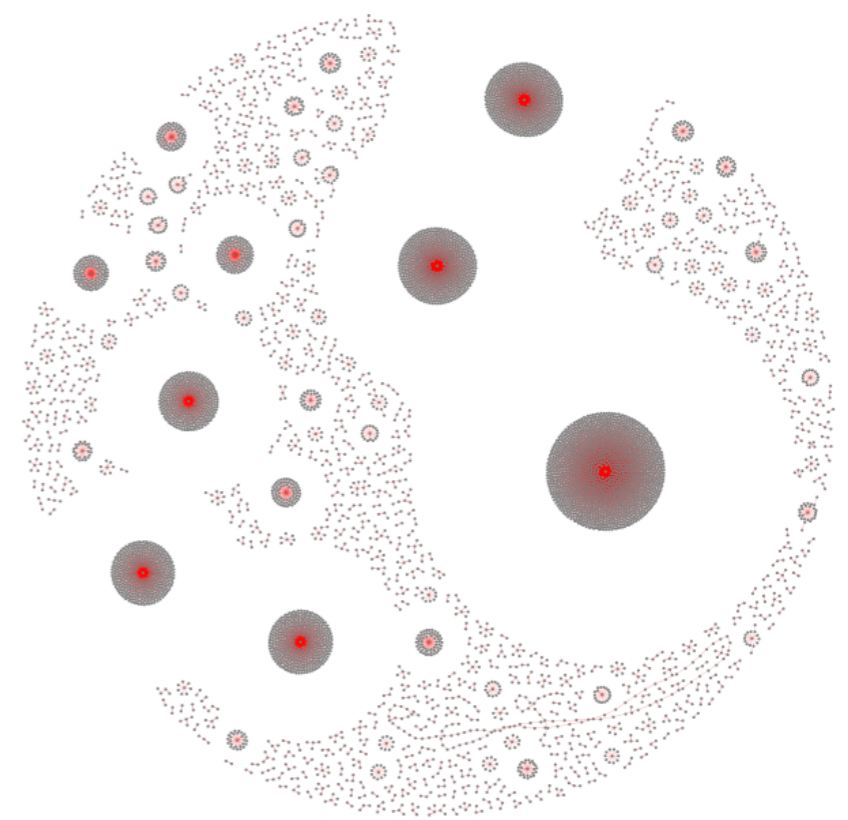
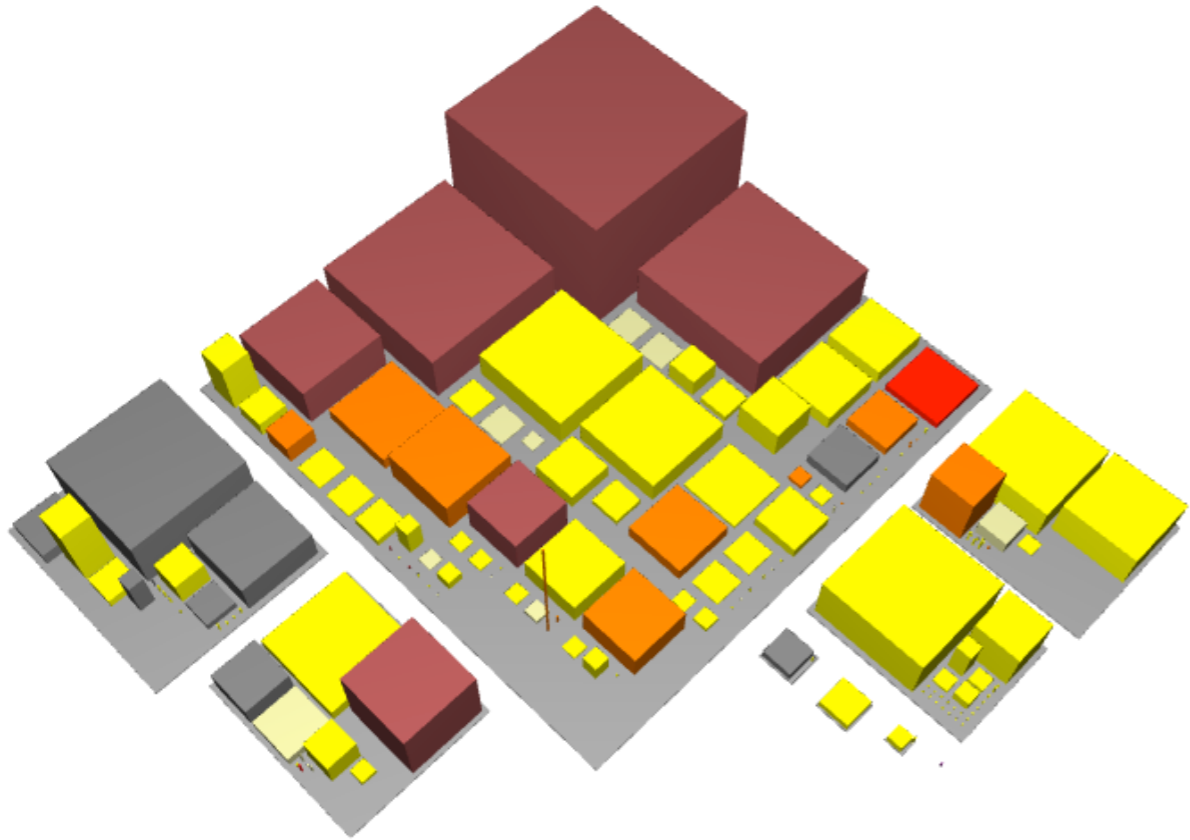
context

ShoreLine

Reporter




```
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  "count": 50,
  "stacktraces": [
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      "top-class": "Array",
      "version": {
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        "name": "Pharo 6.0"
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      "date": "2016-08-21T06:59:23.598+00:00",
      "author": "YuriyTymchuk",
      "id": "67316145574129882052956265475",
      "auto": true
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      "top-class": "Array",
      "version": {
        "update": 60188,
        "name": "Pharo 6.0"
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      "author": "YuriyTymchuk",
      "id": "67316145057621047918825839618",
      "auto": true
    },
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      "top-class": "BlockClosure",
      "version": {
        "update": 60188,
        "name": "Pharo 6.0"
      },
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      "date": "2016-08-21T06:54:20.787+00:00",
      "author": "YuriyTymchuk",
      "id": "67316139984766427521662065665",
      "auto": true
    },
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        "name": "Pharo 6.0"
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      "author": "YuriyTymchuk",
      "id": "67315607685519436770501991424",
      "auto": true
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      "version": {
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        "name": "Pharo 6.0"
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      "author": "YuriyTymchuk",
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      "auto": true
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      "top-class": "RBPatterWrapperBlockNode",
      "version": {
        "update": 60188,
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      "top-class": "RBPatterWrapperBlockNode",
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      "author": "YuriyTymchuk",
      "id": "67315547807388173543120313341",
      "auto": true
    },
    {
      "top-method": "doesNotUnderstand:",
      "top-class": "RBAssignmentInBlockRule class",
      "version": {
        "update": 60188,
        "name": "Pharo 6.0"
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      "author": "YuriyTymchuk",
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      "auto": true
    },
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      "top-method": "errorKeyNotFound:",
      "top-class": "MethodDictionary",
      "version": {
        "update": 60188,
        "name": "Pharo 6.0"
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      "id": "67315383742046381954463439867",
      "auto": true
    },
    {
      "top-method": "doesNotUnderstand:",
      "top-class": "RBAssignmentInBlockRule class",
      "version": {
        "update": 60188,
        "name": "Pharo 6.0"
      },
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      "author": "YuriyTymchuk",
      "id": "67315383133303827390984625146",
      "auto": true
    },
    {
      "top-method": "errorKeyNotFound:",
      "top-class": "MethodDictionary",
      "version": {
        "update": 60188,
        "name": "Pharo 6.0"
      },
      "full": "https://shoreline.inf.usi.ch/api/stacktraces/id/67315382395434064377305635833",
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      "author": "YuriyTymchuk",
      "id": "67315382395434064377305635833",
      "auto": true
    },
    {
      "top-method": "doesNotUnderstand:",
      "top-class": "RBAssignmentInBlockRule class",
      "version": {
        "update": 60188,
        "name": "Pharo 6.0"
      },
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      "author": "YuriyTymchuk",
      "id": "67315382026499183049948797944",
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    },
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      "top-method": "doesNotUnderstand:",
      "top-class": "UndefinedObject",
      "version": {
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      "top-method": "doesNotUnderstand:",
      "top-class": "QARubMenuItemMorph",
      "version": {
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      "auto": true
    },
    {
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      "top-class": "QARubMenuItemMorph",
      "version": {
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    {
      "top-method": "doesNotUnderstand:",
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      "version": {
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        "name": "Pharo 6.0"
      },
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    {
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      "top-class": "QARubMenuItemMorph",
      "version": {
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        "name": "Pharo 6.0"
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        "name": "Pharo 6.0"
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        "name": "Pharo 6.0"
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      "id": "67313302598826730115217497066",
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      "id": "6731330259882672994425438185",
      "auto": true
    },
    {
      "top-method": "doesNotUnderstand:",
      "top-class": "QARubMenuItemMorph",
      "version": {
        "update": 60185,
        "name": "Pharo 6.0"
      },
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      "date": "2016-08-19T12:10:45.545+00:00",
      "author": "YuriyTymchuk",
      "id": "6731330259882672994425438185",
      "auto": true
    }
  ]
}
```

The Pharo System - Blended View

Class DiffMorph: 15 attributes and 91 methods **A**

B Filter by Package Code Changes Stack Traces Interaction Data Refresh 1 day Show Past

C

The main visualization area (C) displays a 3D bar chart similar to the one in the top left, but with a network graph overlaid on top. The bars are color-coded according to the legend. A 'Selected Class' is highlighted with a blue box and a callout. An inset shows a detailed view of a class structure with labels 'NOA' and 'NOM'.

Primary Colors

- Source Code Change
- Stack Trace
- IDE Interaction

D 1/1/2015 21/1/2015 10/2/2015 2/3/2015 **E** 22/3/2015 11/4/2015 1/5/2015

ShoreLine Stack Traces

[Map](#) [Activity](#)

Filters

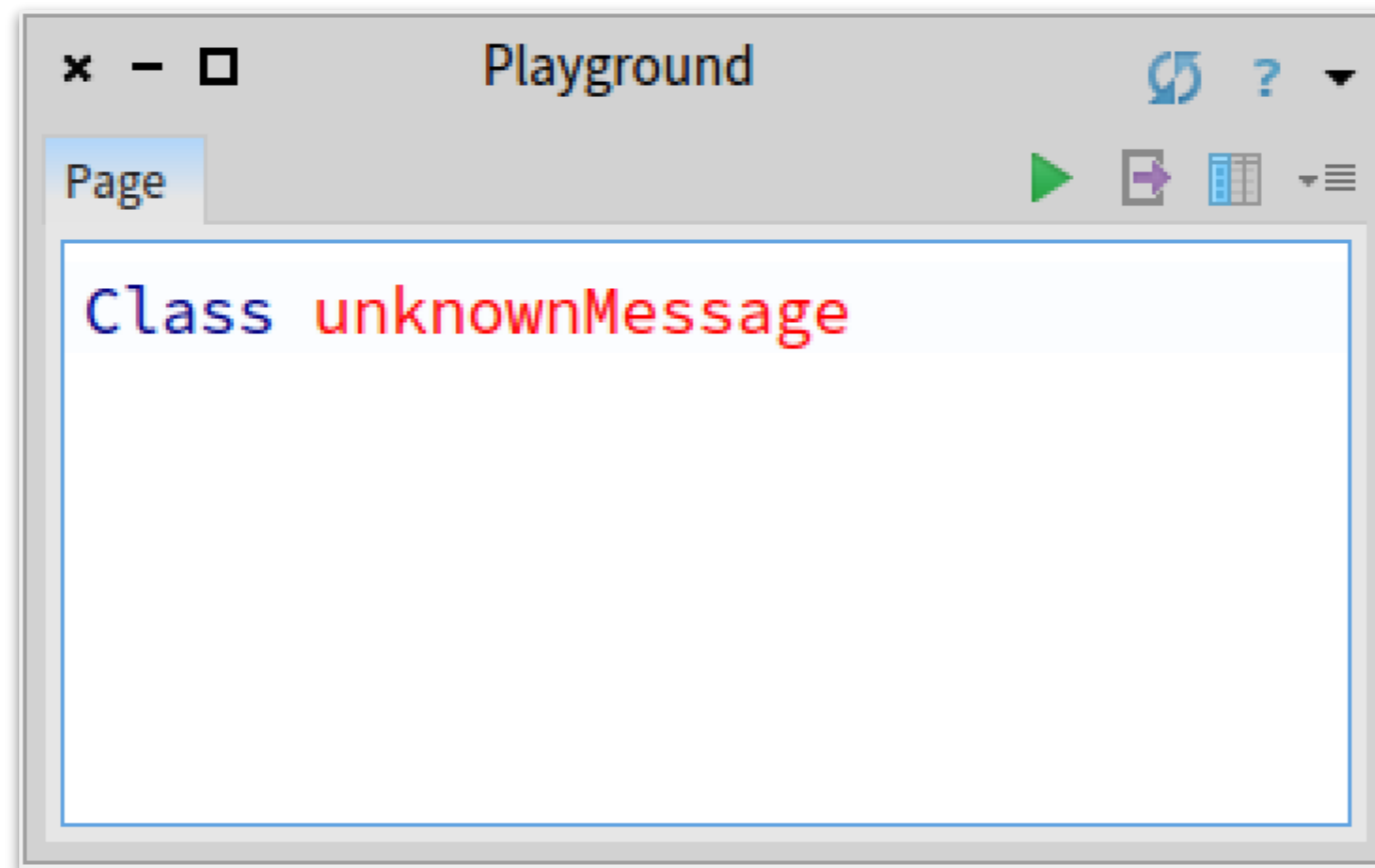
Date	Time	Version	Class	Method	Submitted by	
21 Aug 2016	08:59	Pharo 6.0	Array	errorSizeMismatch	YuriyTymchuk	⚡ ➔
21 Aug 2016	08:58	Pharo 6.0	Array	errorSizeMismatch	YuriyTymchuk	⚡ ➔
21 Aug 2016	08:54	Pharo 6.0	BlockClosure	DNU	YuriyTymchuk	⚡ ➔
21 Aug 2016	00:53	Pharo 6.0	MatchTool class	DNU	YuriyTymchuk	⚡ ➔
20 Aug 2016	23:59	Pharo 6.0	ByteSymbol	DNU	YuriyTymchuk	⚡ ➔
20 Aug 2016	23:59	Pharo 6.0	RBPatternWrapperBlockNode	Dolt	YuriyTymchuk	⚡ ➔
20 Aug 2016	23:59	Pharo 6.0	RBPatternWrapperBlockNode	Dolt	YuriyTymchuk	⚡ ➔
20 Aug 2016	21:31	Pharo 6.0	RBAssignmentInBlockRule class	DNU	YuriyTymchuk	⚡ ➔
20 Aug 2016	21:31	Pharo 6.0	MethodDictionary	errorKeyNotFound:	YuriyTymchuk	⚡ ➔
20 Aug 2016	21:30	Pharo 6.0	RBAssignmentInBlockRule class	DNU	YuriyTymchuk	⚡ ➔
20 Aug 2016	21:29	Pharo 6.0	MethodDictionary	errorKeyNotFound:	YuriyTymchuk	⚡ ➔
20 Aug 2016	21:29	Pharo 6.0	RBAssignmentInBlockRule class	DNU	YuriyTymchuk	⚡ ➔

ShoreLine

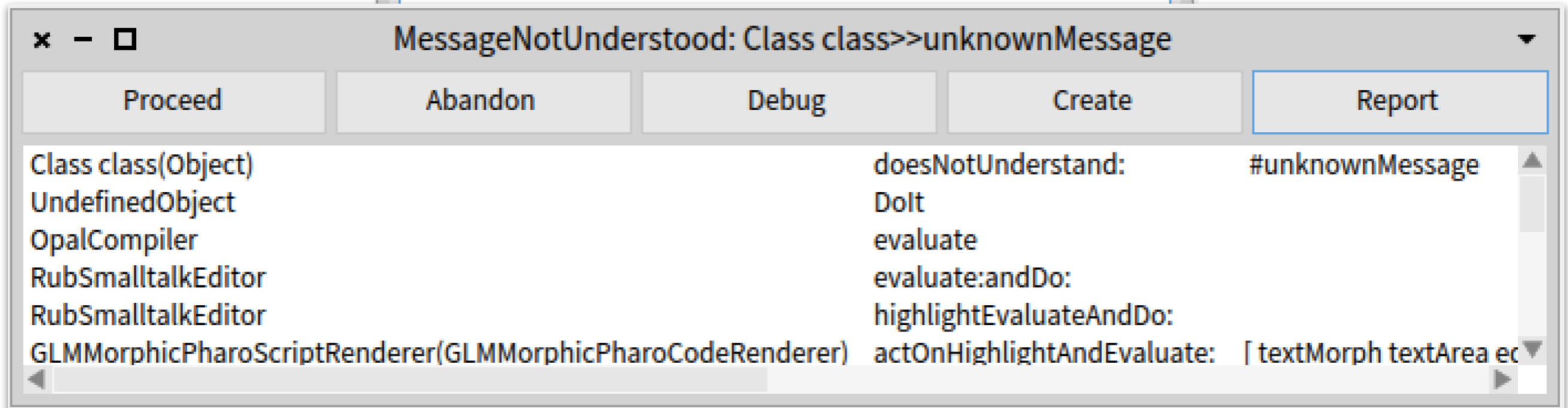
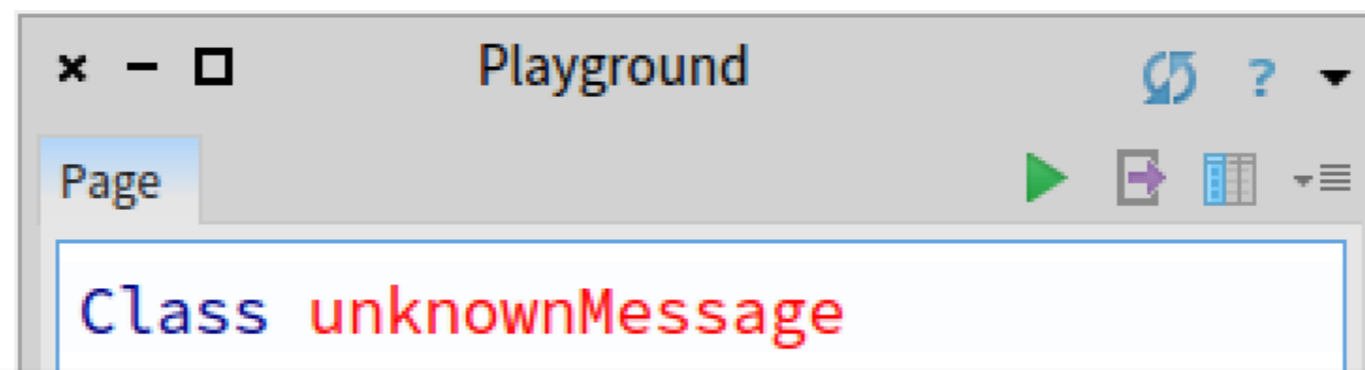
Next

Reporting an Error

Reporting an Error



Reporting an Error



Reporting an Error

New Report

MessageNotUnderstood: Class class>>unknownMessage during ?

Enter a description of the problem

The method #unknownMessage is not implemented

- Include system version
- Include author name (it will be public)
- Include stack trace

Send Cancel

DEMO
TIME

Extending Data Collection

Collect custom data by subclassing **SICollector**

`SICollector>>extractFrom:`

how to collect the data

`SICollector class>>description`

a text description of the collected data

`SICollector class>>tag`

the name of the collector

Domain Specific Information

- ▶ **Roassal** – number of nodes in a view
- ▶ **PetitParser** – input string
- ▶ **Voyage** – object description

ShoreLine Model

★ ← → Edit Assign Email Resolve

18872 Pharo5 vm crash on mac

Pharo VM: 2. External | Milestone: Pharo5.0

Assigned To Everyone Work Needed

Image Version
Pharo5.0

Priority
● 2 – Really Important

Release Notes
[Add release note](#)

Platform
MacOS

[RSS Feed](#)
[Subscribe](#)

Subscribed To This Case
Dale K. Henrichs
Davide Varvello
Esteban Lorenzano
Issue tracker Mailinglist
Nicolai Hess

Add Subscriber
A Man With A Plan

Opened by Davide Varvello 08/05/2016 9:44 AM

I stumbled across several VM crashes these days, but I have no idea on how to reproduce them.

I'm working on mac with Pharo5 #50760

I tried with the stable vm (Jenkins build #589) and also with a more recent one (Jenkins build #597).
Following an extract of the 2 dumps.

Segmentation fault Mon Jul 18 19:17:06 2016

<https://github.com/pharo-project/pharo-vm.git> Commit: b8ec25a570d7539653e1d793e97609adb509aaed Date: 2016-05-04 11:14:22 +0200 By: Esteban Lorenzano <estebanlm@gmail.com> Jenkins build #589

C stack backtrace & registers:
eax 0x00000000 ebx 0x00047070 ecx 0x00000001 edx 0x00000010
edi 0x0c5ed98b esi 0x0c5ed98b ebp 0xbf5c948 esp 0xbf5c920
eip 0x0c63ec69
0 libfreetype.6.dylib 0x0c63ec69 FT_Done_Face + 57
1 Pharo 0x00069e96 reportStackState + 166

Smalltalk stack dump:
0xbffbb71c M [] in FreeTypeFace(FT2Handle)>pvtDestroyHandle 0xad6a760: a(n) FreeTypeFace
0xbffbb73c M BlockClosure>ensure: 0x74efc20: a(n) BlockClosure
0xbffbb760 M [] in Mutex>critical: 0x83dd960: a(n) Mutex
0xbffbb780 M [] in Semaphore>critical: 0x9058d50: a(n) Semaphore
0xbffbb7a0 M BlockClosure>ensure: 0x74efd28: a(n) BlockClosure
0xbffbb7c0 M Semaphore>critical: 0x9058d50: a(n) Semaphore
0xbffbb7e0 M Mutex>critical: 0x83dd960: a(n) Mutex
0xbffbb7fc M FreeTypeFace(FT2Handle)>pvtDestroyHandle 0xad6a760: a(n) FreeTypeFace
0xbffbb814 M FreeTypeFace(FT2Handle)>finalize 0xad6a760: a(n) FreeTypeFace
0xbffbb830 M WeakFinalizerItem>finalizeValues 0x92a8be8: a(n) WeakFinalizerItem
0xbffbb84c M [] in WeakRegistry>finalizeValues 0x7cf3690: a(n) WeakRegistry
0xbffbb864 M BlockClosure>on:do: 0x74efb18: a(n) BlockClosure
0xbffbb884 M BlockClosure>on:fork: 0x74efb18: a(n) BlockClosure
0xbffbb8a4 M [] in WeakRegistry>finalizeValues 0x7cf3690: a(n) WeakRegistry
0xbffbb8c8 M OrderedCollection>do: 0x74ef6c0: a(n) OrderedCollection
0xbffbb8f0 M WeakRegistry>finalizeValues 0x7cf3690: a(n) WeakRegistry
0xbffbb90c M [] in WeakArray class>finalizationProcess 0x7be4fc0: a(n) WeakArray class

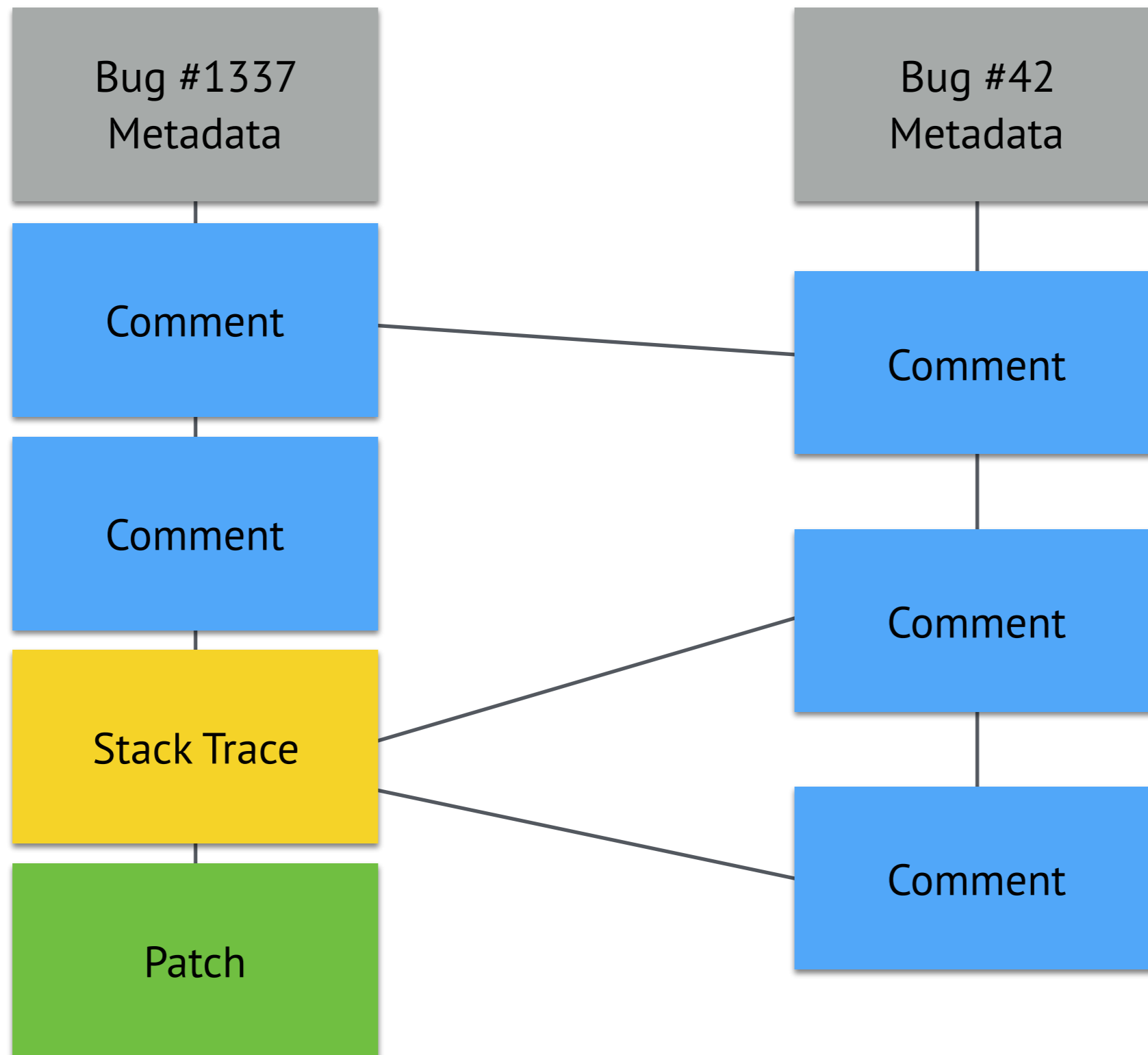
ShoreLine Model

The image shows a screenshot of a web browser displaying a bug report for "Bug #1337". The browser's address bar and navigation icons are visible at the top. The page content is organized into several distinct sections, each with a different background color:

- Metadata:** A grey header section containing the text "Bug #1337" and "Metadata".
- Comments:** Two blue rectangular blocks, each containing the word "Comment".
- Stack Trace:** A yellow rectangular block containing the text "Stack Trace". Below this block, a small snippet of stack trace text is visible: "0 libfreetype.6.dylib 0x0c63ec69 FT_Done_Face + 57".
- Patch:** A green rectangular block containing the word "Patch". Below this block, another snippet of stack trace text is visible: "0xbffbb7e0 M Mutex>critical: 0x83dd960: a(n) Mutex".

At the top right of the browser window, there are navigation links: "Edit", "Assign", "Email", and "Resolve".

ShoreLine Model



Shards

Each shard knows its **context**

Each Shard can be **linked** to other shards

Many linked shards form a **stream** that describes a behavior

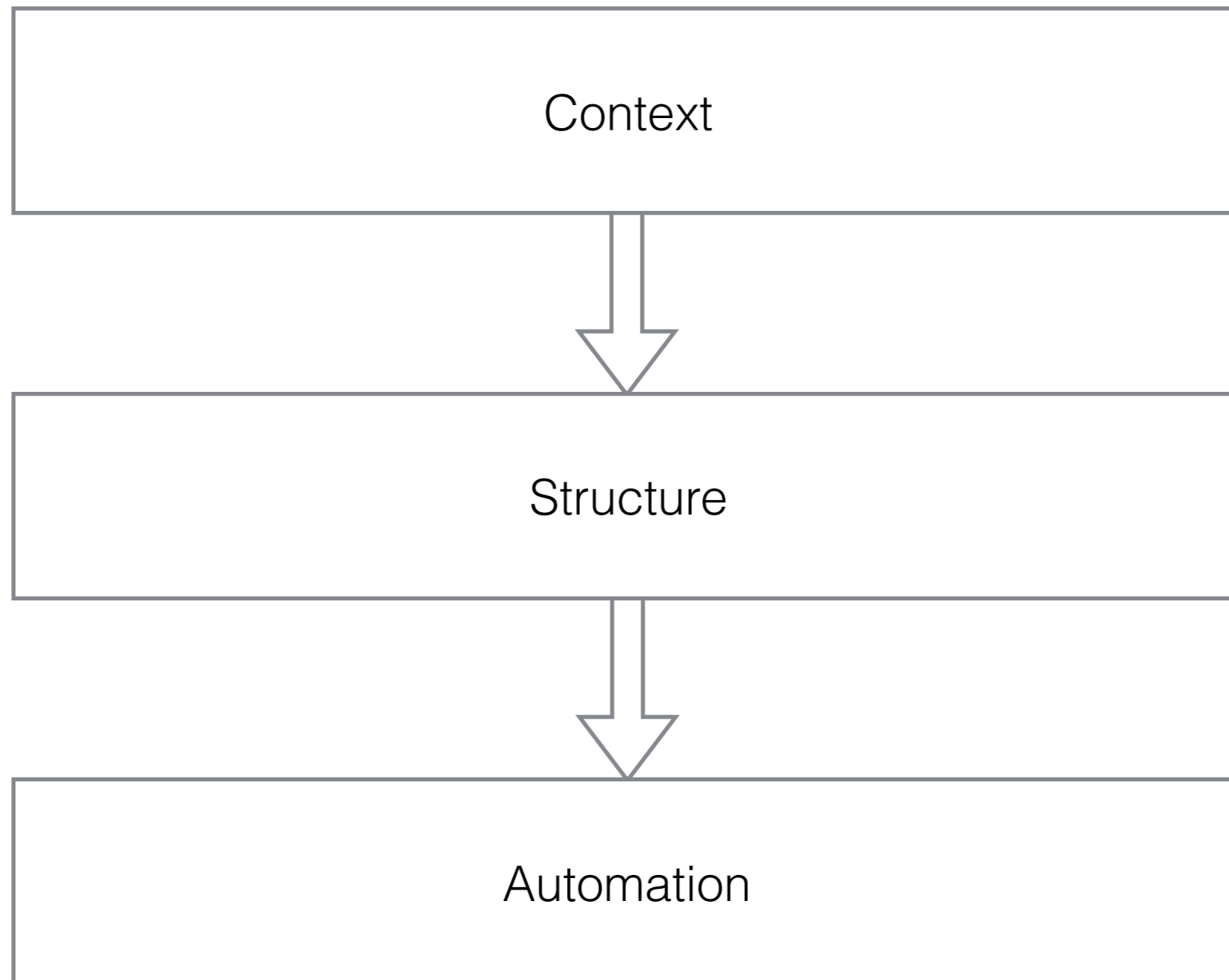
Talking With Bug Reports

- ▶ Bug reports are objects
- ▶ Events are objects
- ▶ Links are objects

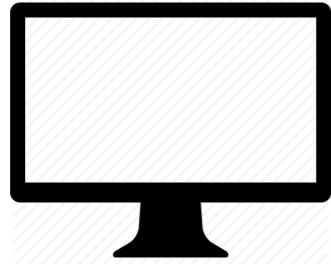
We can inspect and navigate our data

DEMO
TIME

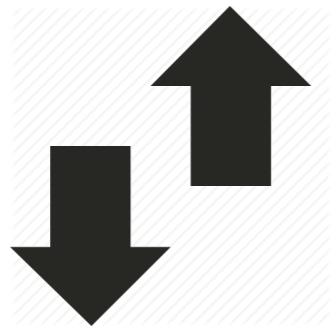
Accessing the data



The Architecture



Clients (ShoreLine, Browser)



Connector



Server

Teapot

NeoJSON

Voyage

ShoreLine Design Principles

- ▶ Extensible
- ▶ Privacy Friendly
- ▶ “Business” Friendly

What Next?

What is There

FogBugz

importing existing data

export new bug reports

What is Not There Yet

bug report management

assign a bug report

authentication

Short Term Plans

- ▶ Stable version
- ▶ Report Browser
- ▶ Interaction with FogBugz
- ▶ Data Analysis

Conclusion

Assigned To Everyone **Work Needed**

Image Version
Pharo5.0

Priority
2 - Really Important

Release Notes
Add release note

Platform
MacOS

RSS Feed
Subscribe

Subscribed To This Case
Dale K. Henrichs
Davide Varvello
Esteban Lorenzani
Issue tracker Mailinglist
Nicola Hess

Add Subscriber
A Man With A Plan

Opened by Davide Varvello 08/05/2016 9:44 AM

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0 libfreetype.6.dylib 0x0c63ec99 FT_Done_Face + 57
1 Pharo 0x00069e96 reportStackState + 166

Smalltalk stack dump:
0xbffbb71c M [] in FreeTypeFace(F2Handle)-privDestroyHandle 0xad9a760: a(n) FreeTypeFace
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0xbffbb7e0 M Mutex-critical: 0x83dd960: a(n) Mutex
0xbffbb7fc M FreeTypeFace(F2Handle)-privDestroyHandle 0xad9a760: a(n) FreeTypeFace
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0xbffbb8f0 M WeakRegistry-finalizeValues 0x7c3990: a(n) WeakRegistry
0xbffbb90c M [] in WeakArray class-finalizationProcess 0x7be4f0: a(n) WeakArray class

Reporting an Error

New Report

MessageNotUnderstood: Class class>>unknownMessage during ?

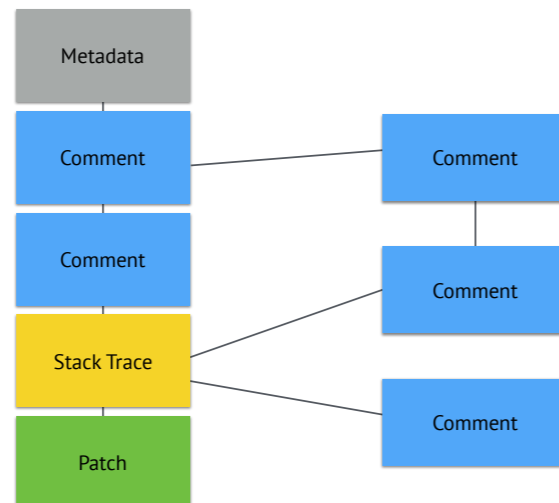
Enter a description of the problem

The method #unknownMessage is not implemented

Include system version
 Include author name (it will be public)
 Include stack trace

Send Cancel

ShoreLine Model



ShoreLine Browser

Filter

MessageNotUnderstood: String class>>u...	23 August 2016	00:39:02	unconfirmed	TommasoDalSasso
ZeroDivide during SmallInteger>>/	12 June 2016	00:36:40	unconfirmed	TommasoDalSasso
ZeroDivide during SmallInteger>>/	12 June 2016	00:34:07	unconfirmed	TommasoDalSasso
ZeroDivide during SmallInteger>>/	10 June 2016	22:15:00	unconfirmed	TommasoDalSasso
Memory leaks with subscriptions	29 March 2016	12:18:07	Closed (Fixed)	Christophe Demarey

Memory leaks with subscriptions
Christophe Demarey

Christophe Demarey 2016-03-29T10:18:07+00:00
Opened by Christophe Demarey
Each time you open a GTInspector or Playground, there are new subscriptions that are never garbage collected!

Christophe Demarey 2016-03-29T10:18:08+00:00
Assigned to Everyone by Christophe Demarey

Christophe Demarey 2016-03-29T10:18:50+00:00

Talking About Bugs With Bugs

Thanks!

Tommaso Dal Sasso
Andrea Mocci
Michele Lanza