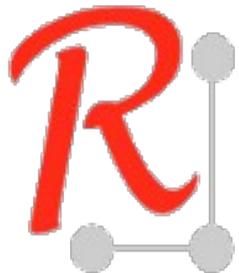


# Roassal2

Alexandre Bergel, Milton Mamani  
<http://objectprofile.com>





Pharo Project Catalog

Available

- Roassal2
  - Install stable version and create group
  - Install stable version
  - Load configuration (do not install project)

Roassal2

Description

Roassal is an agile visualization engine. Roassal graphically renders objects using short and expressive Smalltalk expressions. A large set of interaction facilities are provided for a better user experience. Painting, brushing, interconnecting, zooming, drag and dropping will just make you more intimate with any arbitrary object model.

info@objectprofile.com

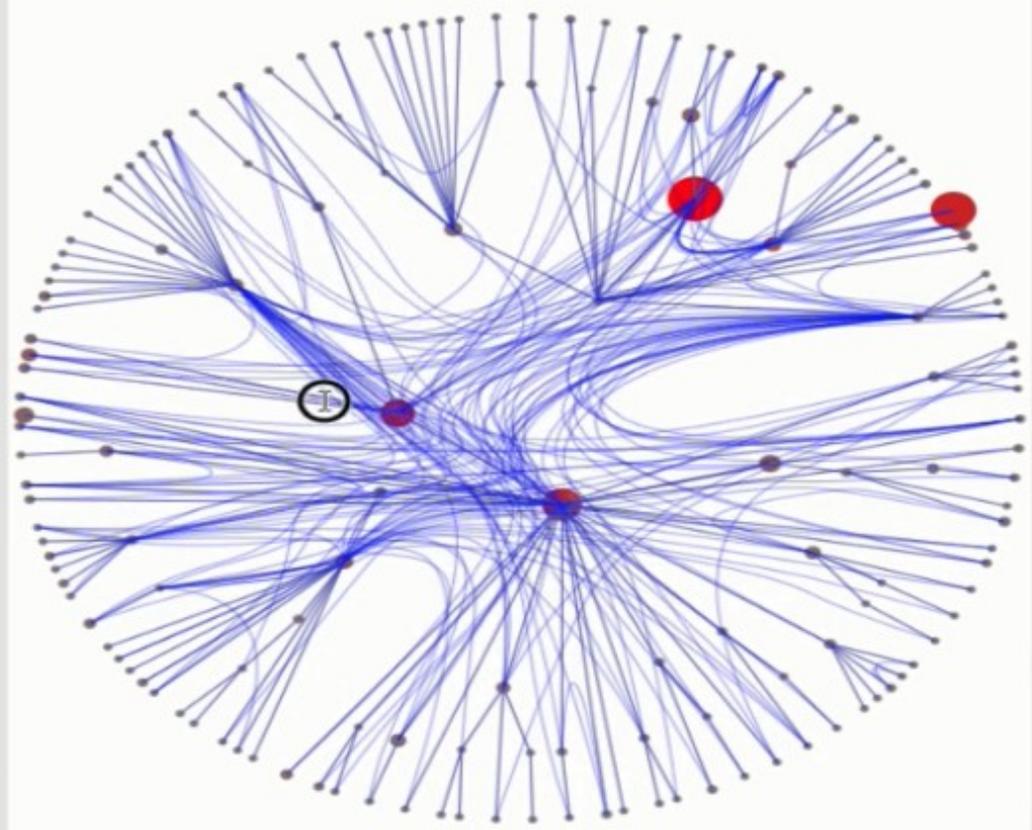
**DEMO**

# Playground

▶ a RTMondrian x

View Raw Meta

```
b := RTMondrian new.  
b shape circle.  
  
b nodes: Collection withAllSubclasses.  
  
b edges  
  connectFrom: #superclass.  
  
b shape  
  bezierLineFollowing: #superclass;  
  color: Color blue trans.  
b edges  
  notUseInLayout;  
  connectToAll: #dependentClasses.  
  
b normalizer  
  normalizeSize: #numberOfMethods;  
  normalizeColor: #numberOfLinesOfCode.  
  
b layout cluster.  
  
b
```

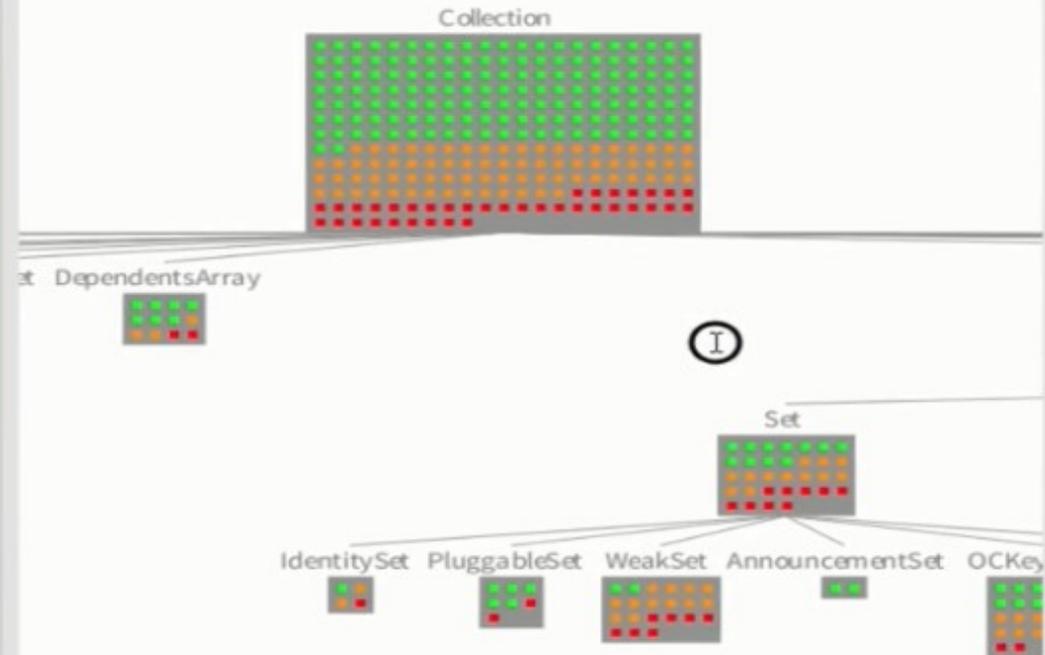


# Playground

▶ a RTMondrian

View Raw Meta

```
b := RTMondrian new.  
b shape box withTextAbove.  
b nodes: Collection withAllSubclasses  
forEach: [:cls |  
  
  b shape box  
  if: [:m | m numberOfLinesOfCode <= 5 ]  
fillColor: Color green;  
  if: [:m | m numberOfLinesOfCode > 5 ]  
fillColor: Color orange;  
  if: [:m | m numberOfLinesOfCode > 10 ]  
fillColor: Color red.  
  
  b nodes: (cls methods sortedAs:  
#numberOfLinesOfCode).  
  b layout grid.  
].  
  
b edges  
  connectFrom: #superclass.  
b layout tree.  
b
```





visualInc.im created

### Published Items on Cincom Public Repository

Components Versions Comment

Bundles and Packages:	Versions:	
Roassal2	(2.31, azazael)	5 15:21:16
Roassal2	(2.30, azazael)	5 14:56:36
Roassal2-Dev	(2.29, azazael)	5 1:49:04
Roassal2-Examples	(2.28, azazael)	5 3:26:58
Roassal2-full	(2.27, azazael)	5 3:10:42
Roassal2-Tests	(2.26, azazael)	5 1:08:22
Roassal2	(2.25, azazael)	5 11:08:07
Roassal2-Animation	(2.24, azazael)	5 1:58:05
Roassal2-AttachPoint	(2.23, azazael)	5 19:26:55
Roassal2-AttachPoint-Tests	(2.22, azazael)	5 10:16:51
Roassal2-Builder-AnimatedScatterPlot		
Roassal2-Builder-AnimatedScatterPlot-Examples		
Roassal2-Builder-AnimatedScatterPlot-Tests		
Roassal2-Builder-ApplicationMatrix		
Roassal2-Builder-ApplicationMatrix-Tests		
Roassal2-Builder-AxisAdapted		
Roassal2-Builder-AxisAdapted-Examples		
Roassal2-Builder-BoxPlot		
Roassal2-Builder-BoxPlot-Examples		
Roassal2-Builder-Calendar		
Roassal2-Builder-Calendar-Examples		
Roassal2-Builder-CircularMap		
Roassal2-Builder-CircularMap-Examples		
Roassal2-Builder-CircularMap-Tests		

Comment:

**Roassal2-f**  
--- Blessed:  
--- By: azaza  
--- On 06-10-10  
Roassal2 in  
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- Browse
- Inspect
- Contained Items
- Enclosing Bundles
- Load
- Merge Into Image
- Reconcile Image with Selection
- Set Blessing Level...
- File Out...
- File Out Differences...
- Open Versions List
- Graph
- Update Versions List
- Compare with Image
- Compare Versions
- Compare with Parent
- Compare With...



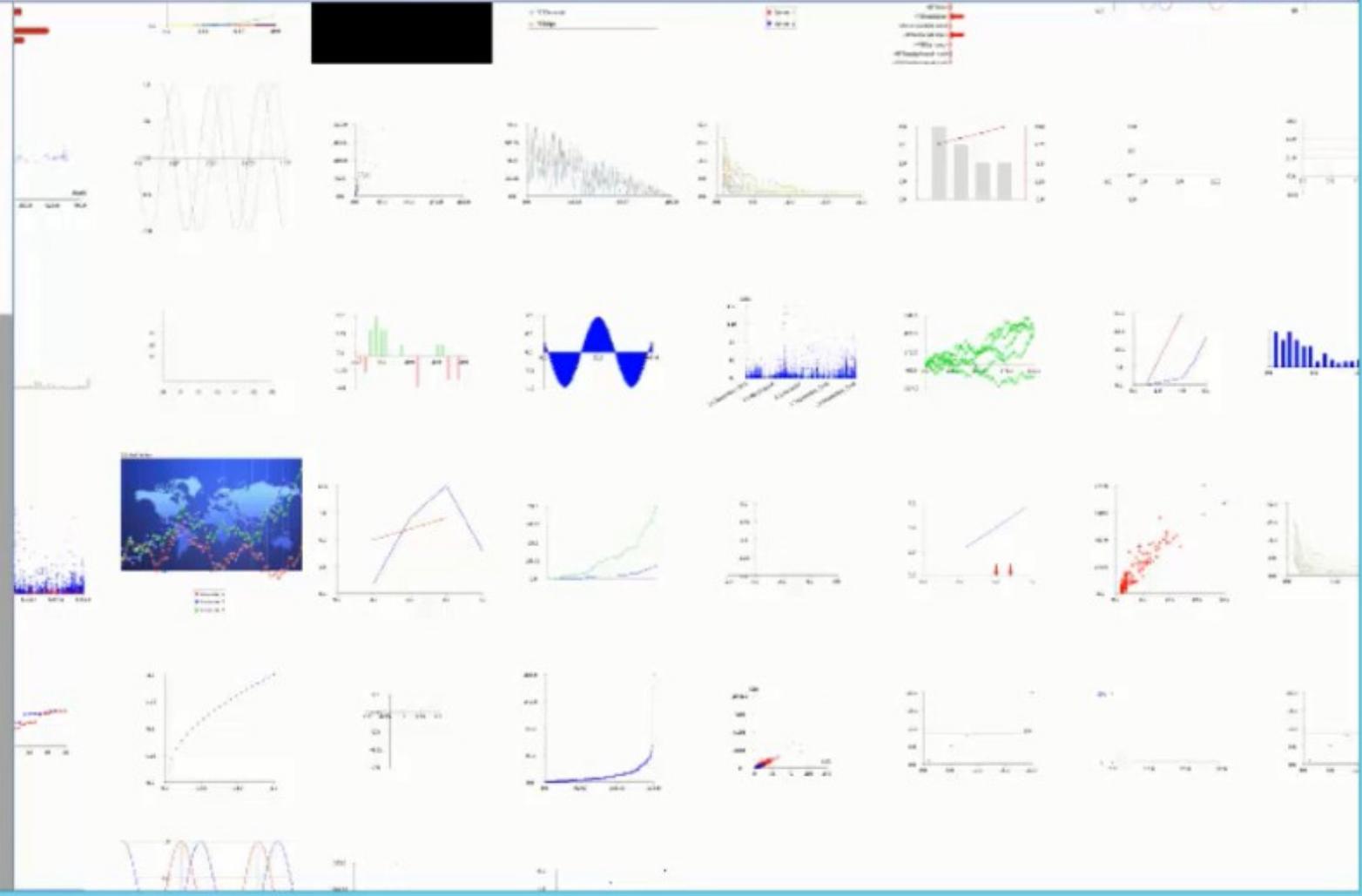
# Roassal examples browser



## RTGrapherExample

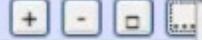


- Geographical maps
- Gradient and multi colored lines
- Grapher**
- Kiviak (Radar)
- Layout
- Legend
- Line decoration
- Map location
- Mondrian
- Name cloud
- Pie chart
- Plain Roassal
- Selection Elements
- Sparkline
- Spectrograph
- StackBarPlot
- Sunburst
- SVG
- Time line
- Tree map
- UML builder

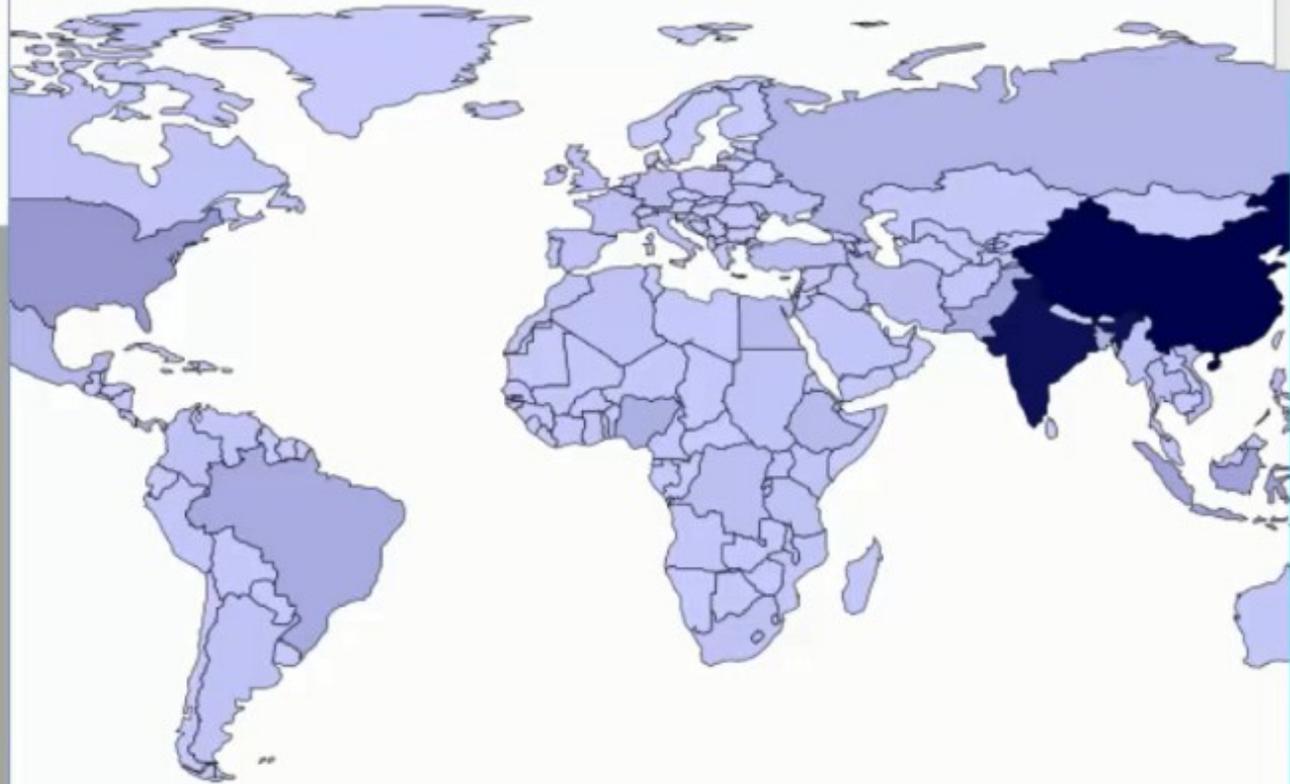


RTMapExample>>exampleWorldPopulation

Source



- Experimental
- Explora
- Geographical maps**
- Gradient and multi colored lines
- Grapher
- Kiviat (Radar)
- Layout
- Legend
- Line decoration
- Map location
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- Name cloud
- Pie chart
- Plain Roassal
- Selection Elements
- Sparkline
- Spectrograph
- StackBarPlot
- Sunburst
- SVG
- Time line
- Tree map



- Export to PNG
- Export to SVG
- Export to HTML**
- Export to HTML...
- Inspect view

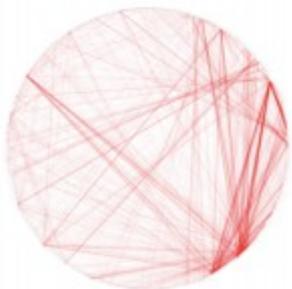


# Agile Visualization

Crafting a visualization requires short and incremental developments, often costly both in time and effort. Agile Visualization promotes the use of the Roassal and Pharo interactive development environment to significantly reduce the creation of a visualization. Roassal significantly leverages a visualization development against traditional visualization frameworks and toolkits.

This book focuses on the Roassal visualization engine. Agile Visualization first presents the basic and necessary tools to visualize data. The development environment is subsequently described. The book then covers a domain-specific language framework to design and implement expressive and composable visualizations. Several applications are presented, covering epidemiological models, geographical information, network latency, and source code software analysis.

Agile Visualization covers aspects that are relevant for practitioners, businesses, and academics to successfully design and implement a visualization.

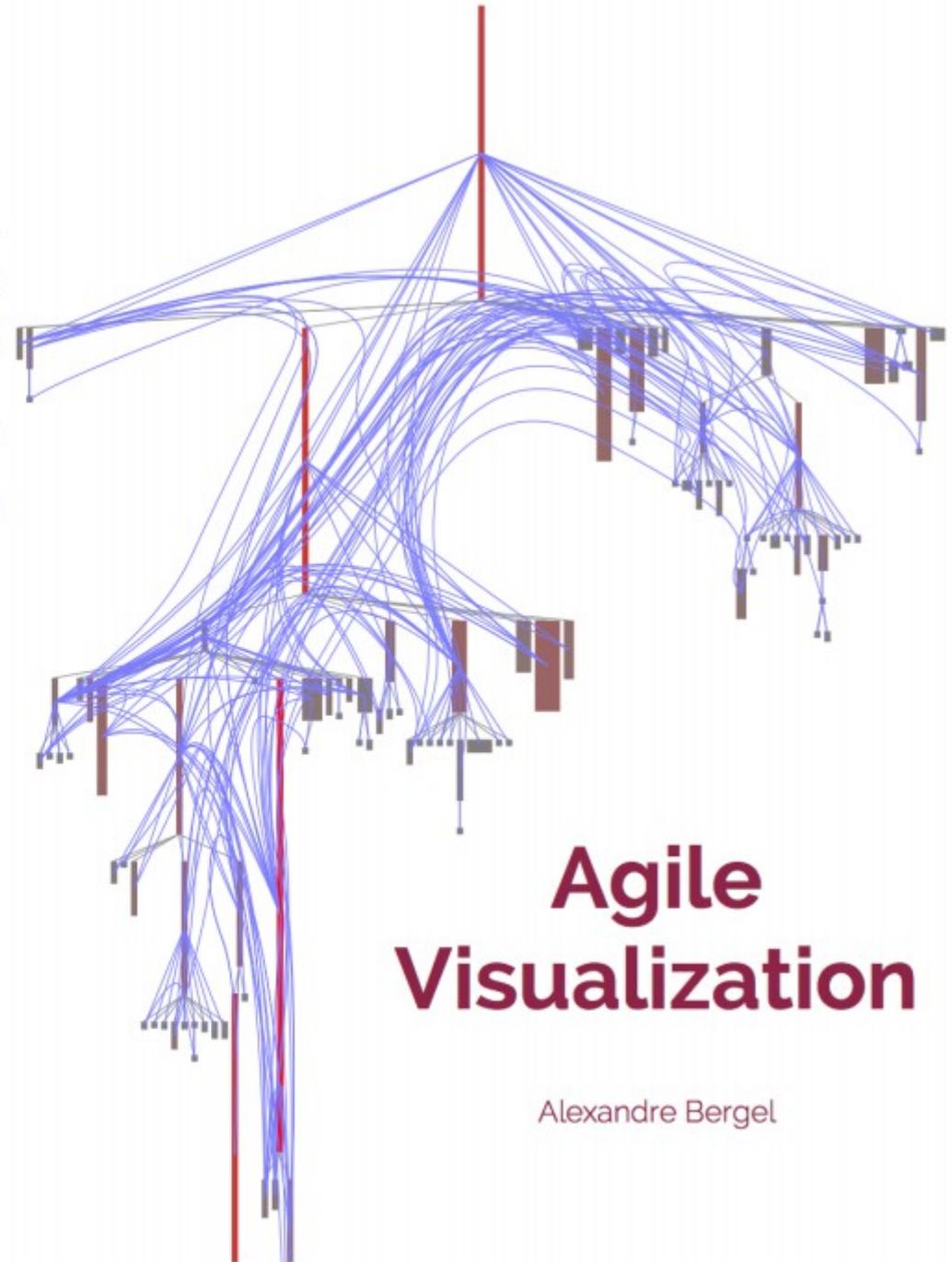


Alexandre Bergel is Assistant Professor and researcher at the University of Chile. Alexandre Bergel and his collaborators carry out research in software engineering and software quality, more specifically on code profiling, testing and data visualization.



Agile Visualization

Alexandre Bergel



# Agile Visualization

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# Thanks

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