

oassal3 updates:

Current status and **next step**

Inria

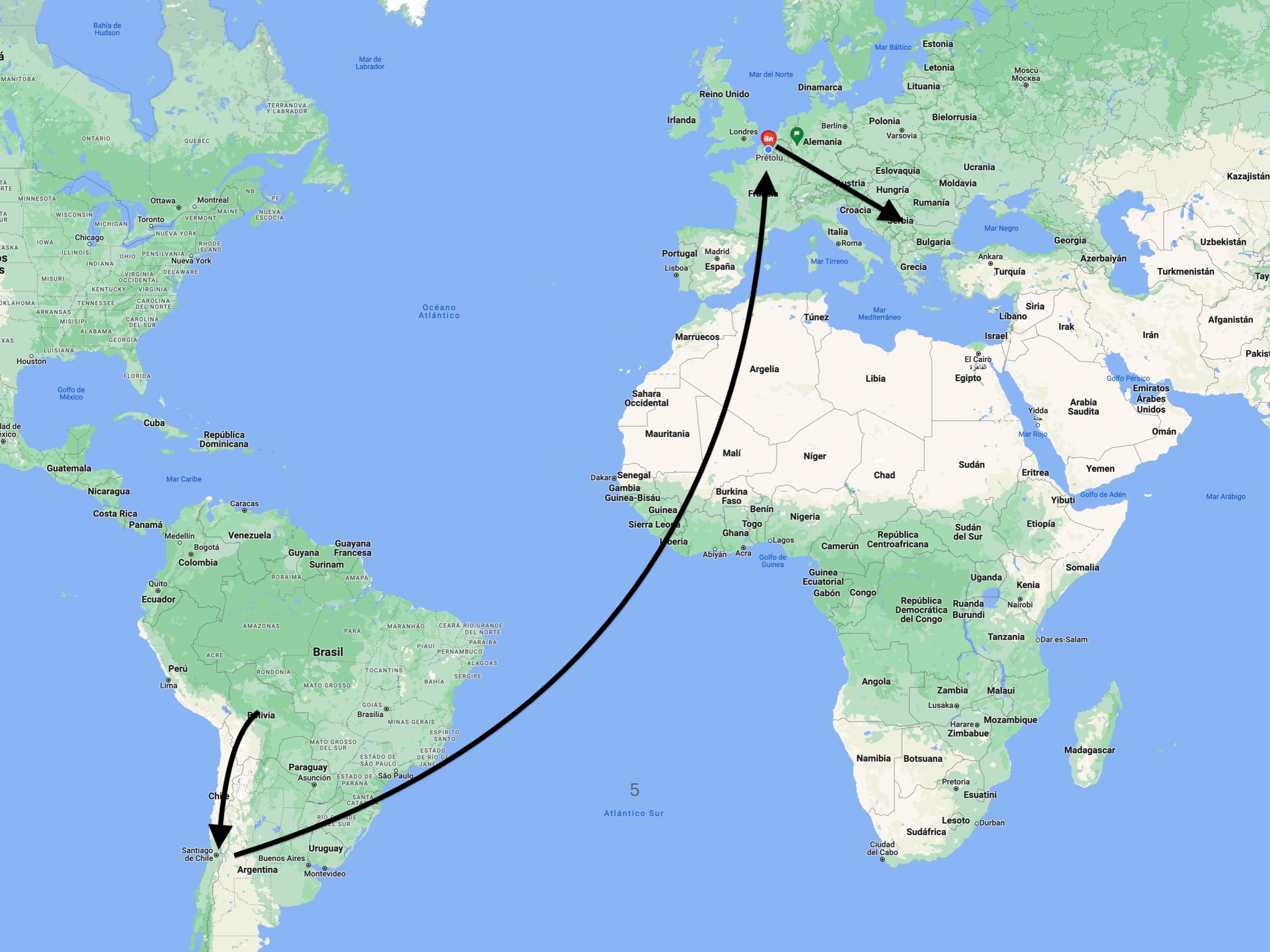
Milton Mamani. August - 2022 Novi Sad

Who I am?

Name: Milton Mamani Torres
Country: Bolivia
Occupation: Software Engineer in Rmod team, Inria
Email: akevalion@gmail.com





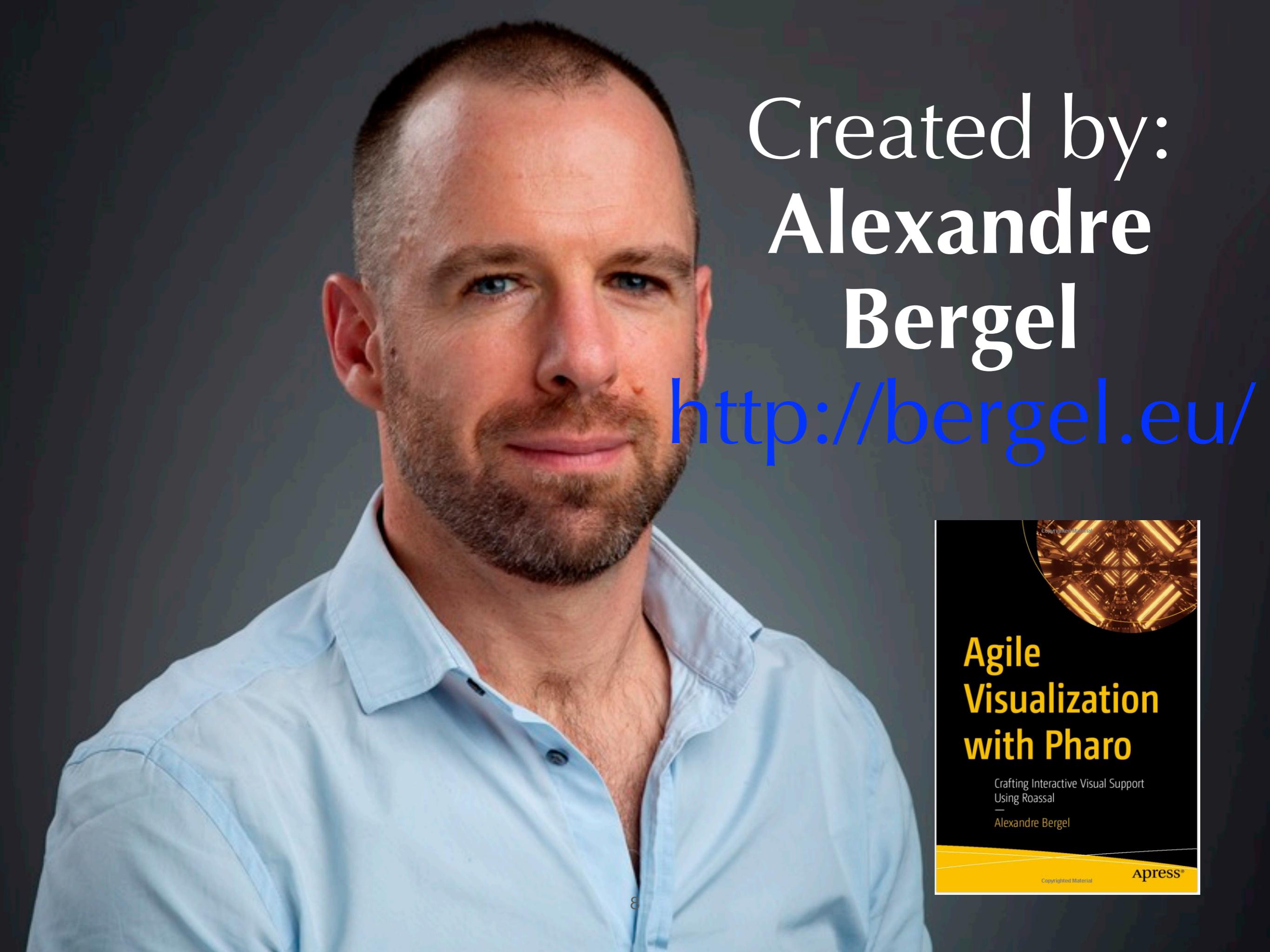


What is Roassal?

A tool to visualize data

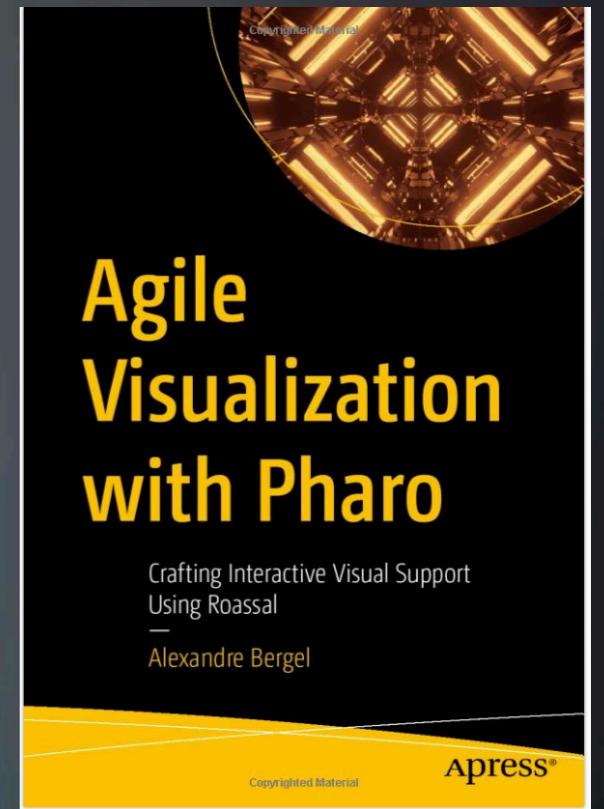
7



A close-up portrait of a man with short brown hair and a light beard, wearing a light blue button-down shirt. He is looking directly at the camera with a slight smile.

Created by:
**Alexandre
Bergel**

<http://bergel.eu/>



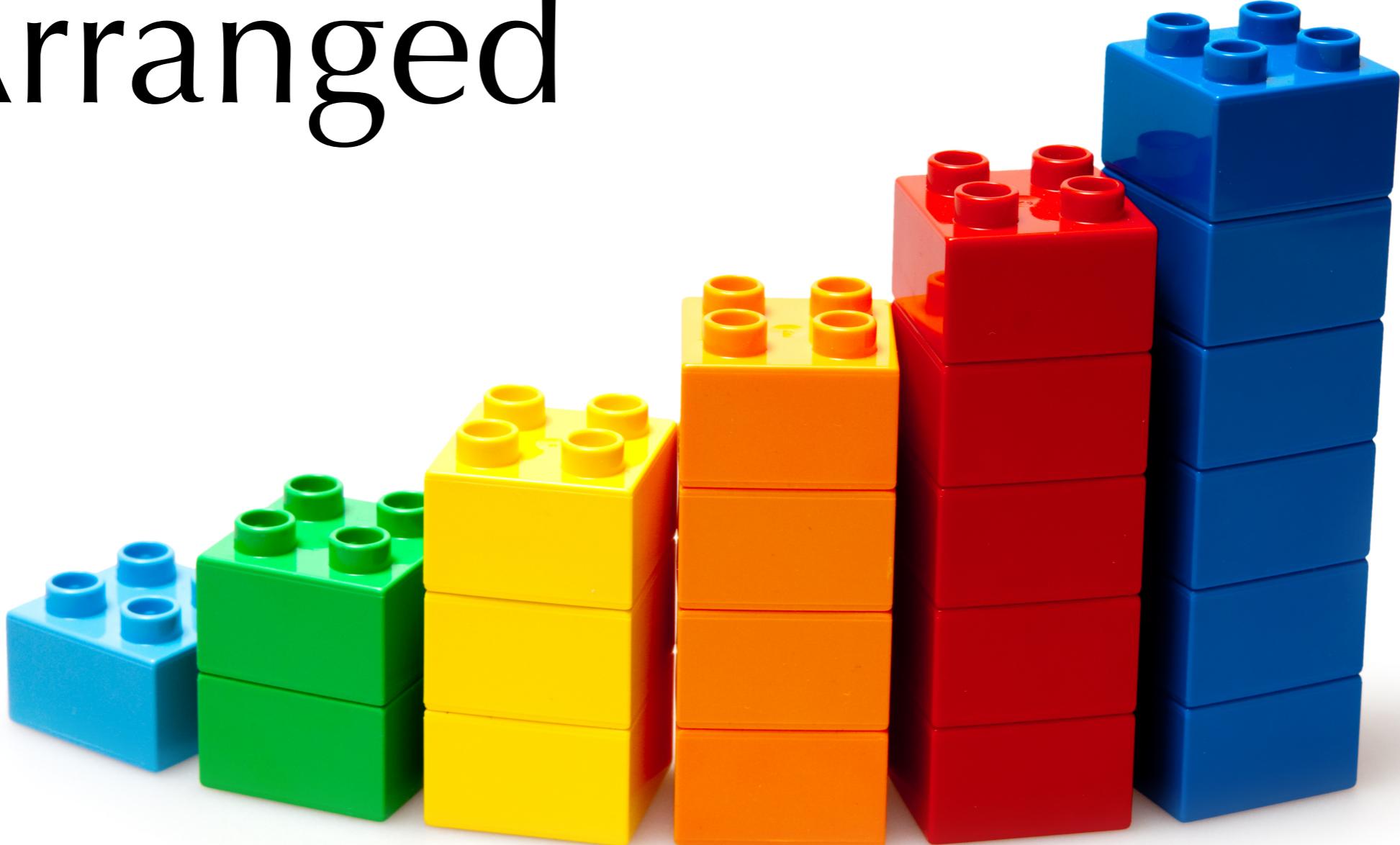
Data



Sorted



Arranged



Explained
with a story



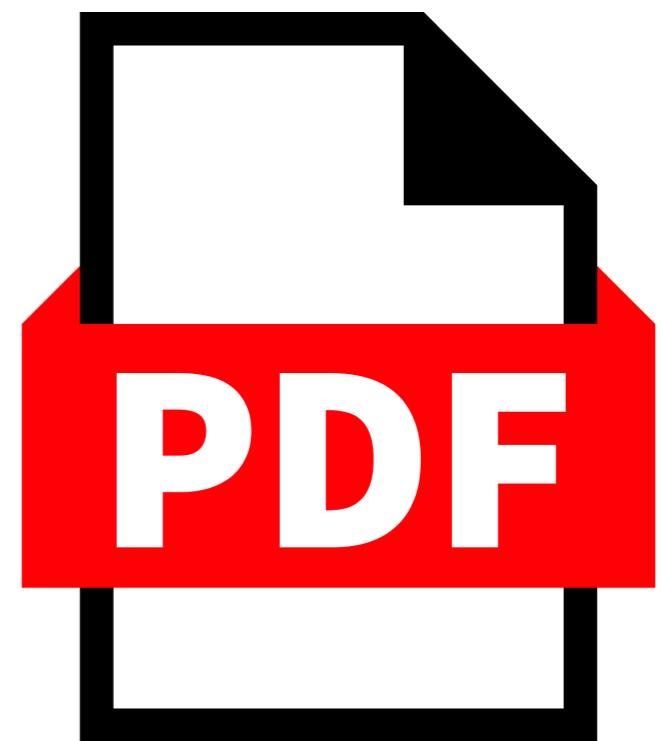
Data can have many presentations



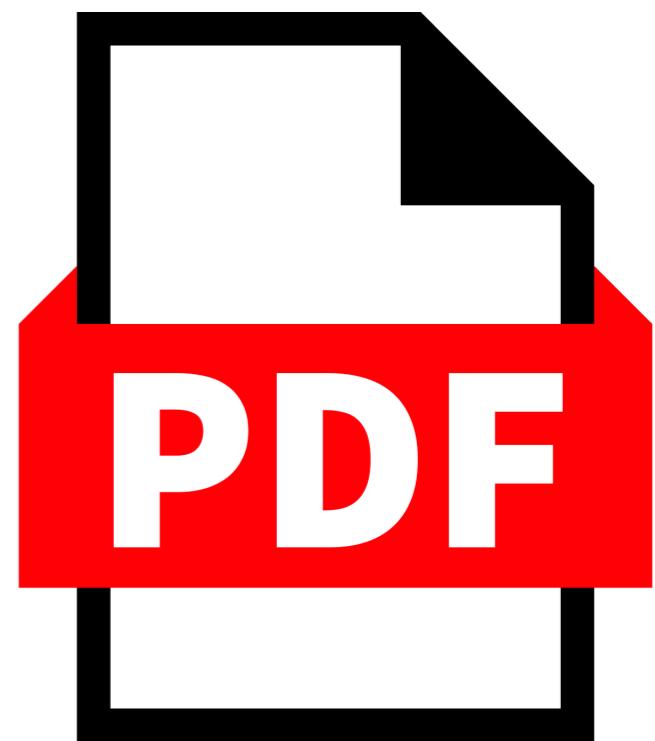
DEMO

New Features

Export into other file formats



Export into other file formats



SVG import support

Playground

Do it Publish Bindings Versions Pages

```
1 canvas := RSCanvas new.  
2 tiger := RSSVGImporter fromString: 'Tiger.svg' asFileReference contents.  
3 canvas add: tiger.  
4 canvas zoomToFit  
5
```

x - □ Inspector on a RSCanvas

a RSCanvas

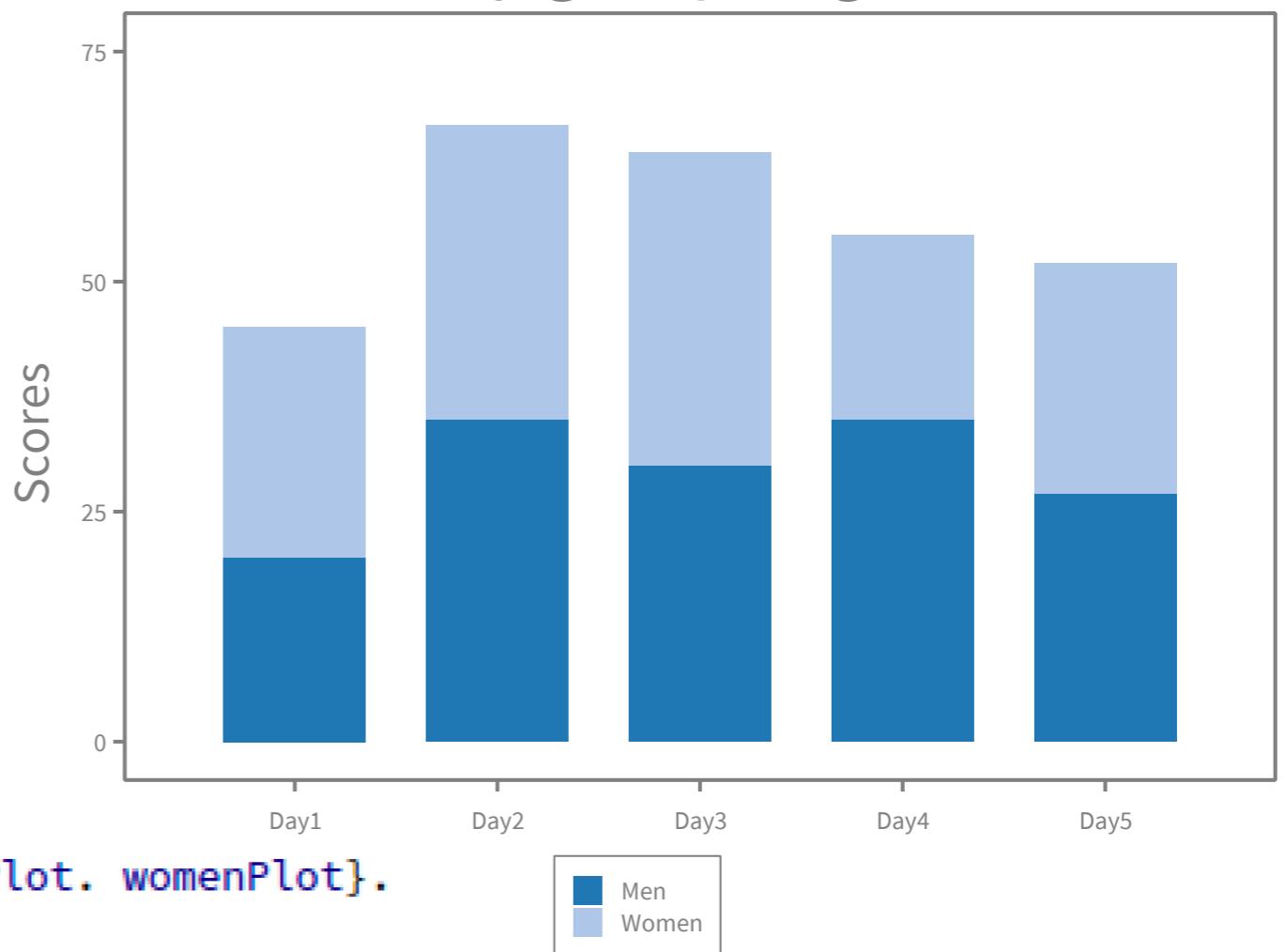
Canvas Shapes Raw Breakpoints Meta



18

Chart library

Scores by group of gender



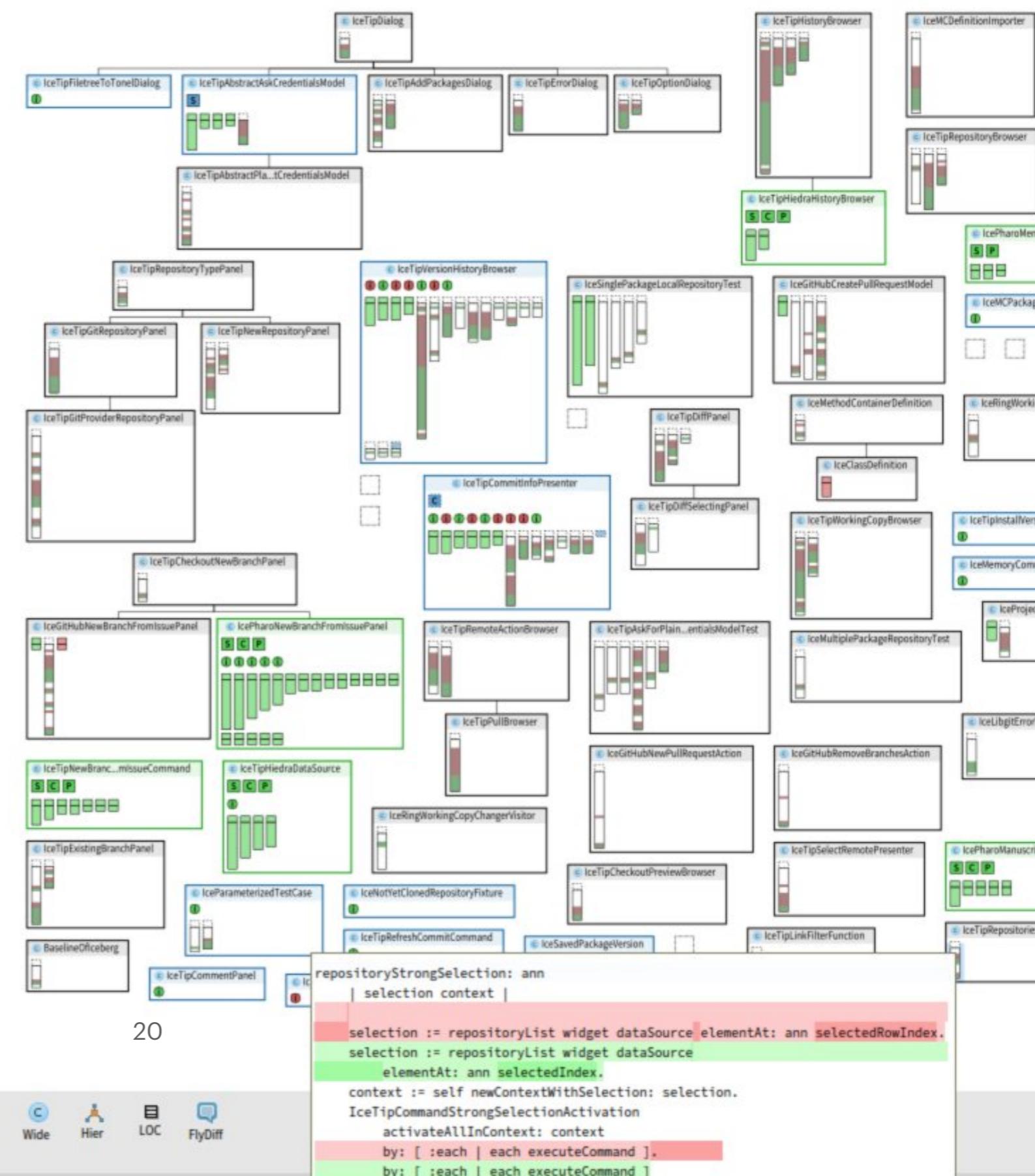
```
1 menMeans := #(20 35 30 35 27).
2 womenMeans := #(25 32 34 20 25).
3
4 menPlot := DCBarPlot new
5   y: menMeans;
6   name: 'Men'
7   yourself.
8 womenPlot := DCBarPlot new
9   y: womenMeans;
10  name: 'Women';
11  yourself.
12
13 combinedPlot := DCStackBarPlot withAll: {menPlot. womenPlot}.
14 settings := combinedPlot settings.
15 settings xtick fromNames: #(Day1 Day2 Day3 Day4 Day5).
16 settings ytick integer.
17
18 combinedPlot
19   title: 'Scores by group of gender';
20   padding: 0.3;
21   ylabel: 'Scores';
22   xlabel: '';
23   legendDo:[:lb | lb location below ];
24   show.
```

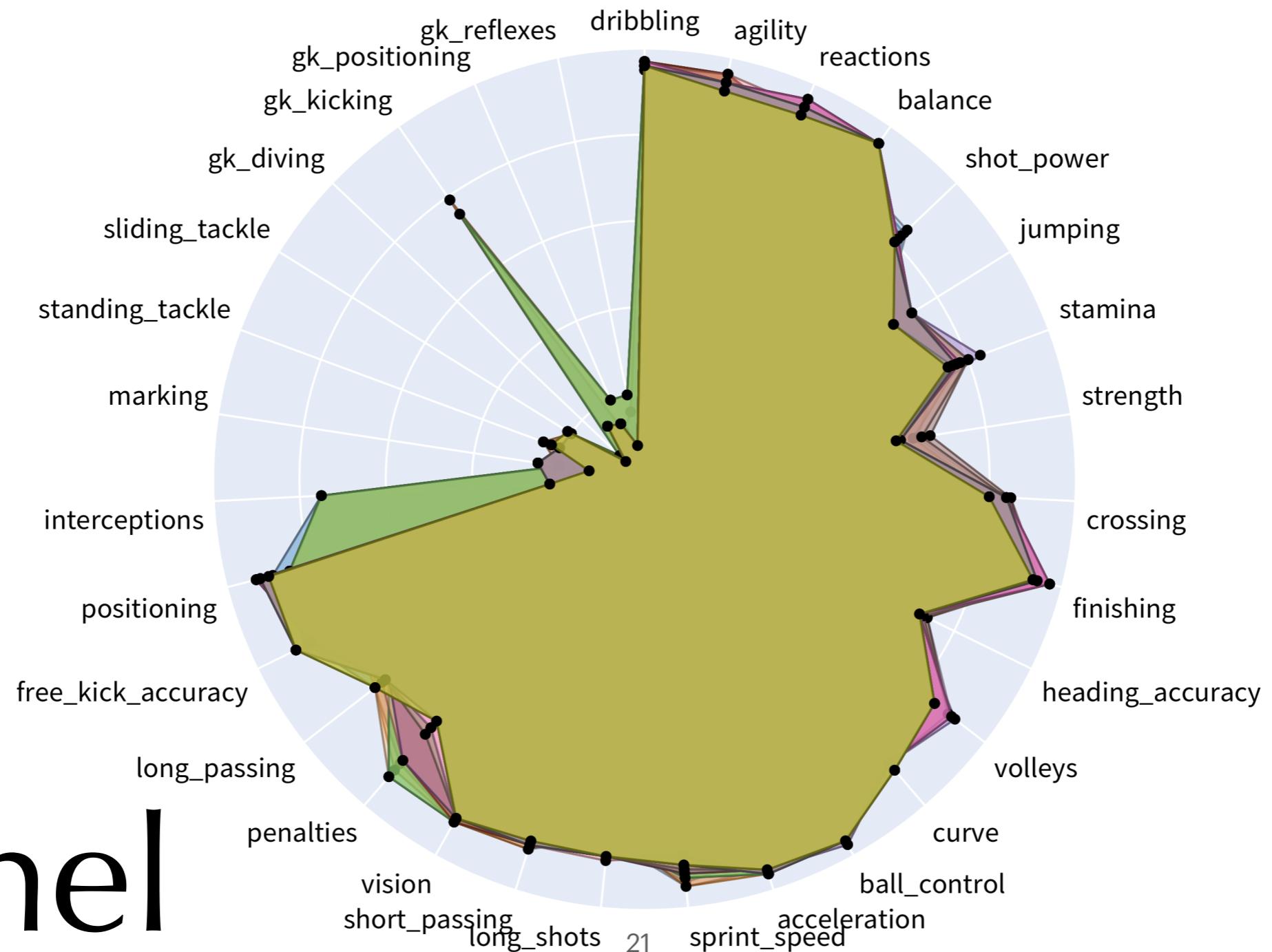
Better support for UML classes

Home iceberg

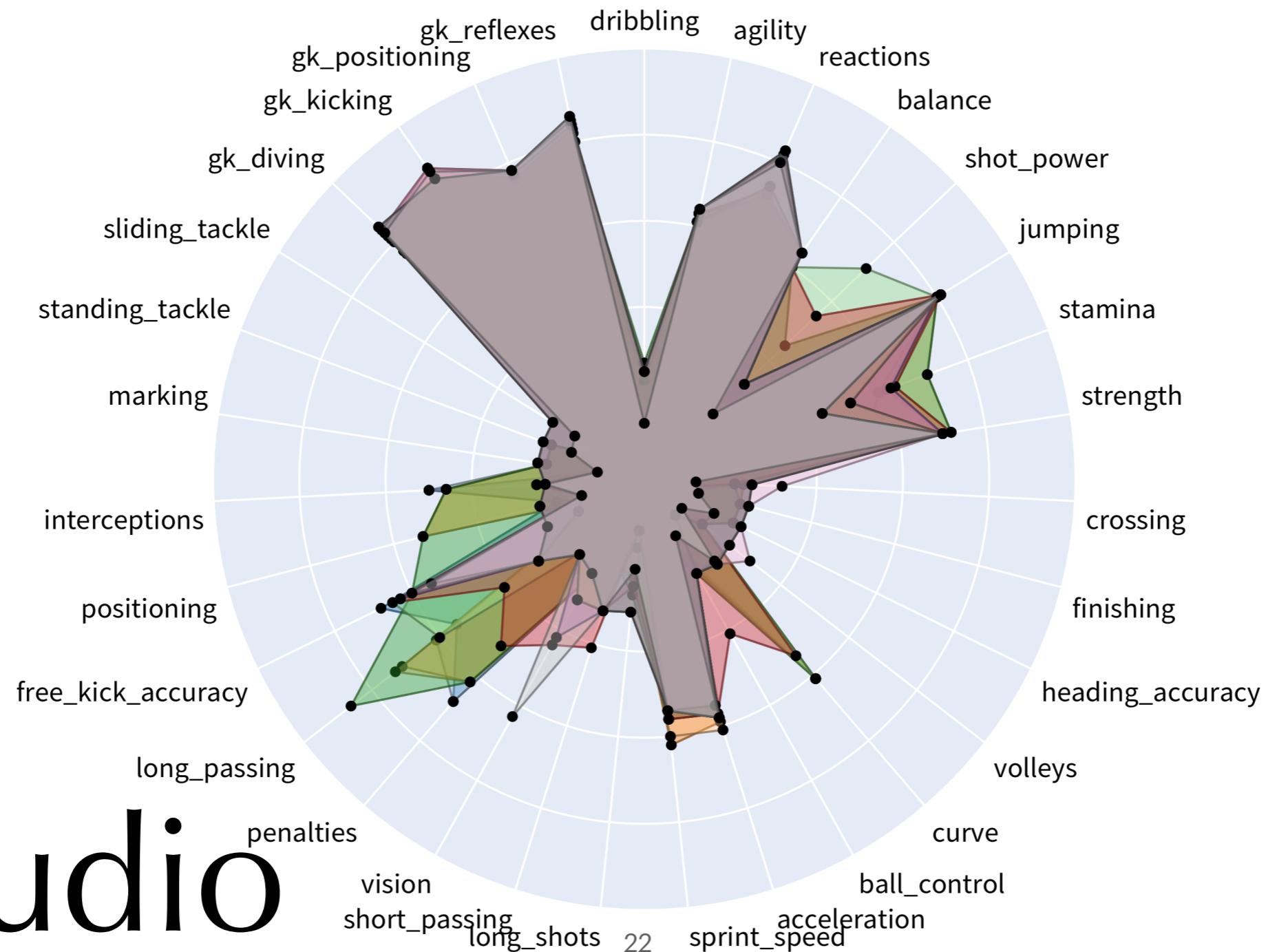
Fix 1237

- Merge branch 'dev-1.0' into 1234-Do-a-pass-or-fail-test-for-the-new-
15 May 19
- Rename flags to make FlagBrowser more user friendly. Fix: 15 May 19
- v1.7.0 Cleaning undeclareds 14 May 19
- Merge pull request #1233 from guillep/tonel-1.0.14 tone 10 May 19
- Fix beInvisible => bePassword 10 May 19
- Upgrade to Tonel 1.0.14 10 May 19
- fix PR dialog (but layouts, focus and modals are broken) 30 Apr 19
- fix new pull request dialog (at least the deprecation) 30 Apr 19
- Fix #1225 Implement visiting of conflicting operations by del 18 Apr 19
- Add tests for case #1225 18 Apr 19
- Fix #1229 - Rename remoteFileReferenceInPath:=> removeF 18 Apr 19
- Add tests for case #1229 18 Apr 19
- Fix UI tests + adapting to latest spec 16 Apr 19
- Fix #1231 16 Apr 19
- Merge pull request #1214 from estebanlm/fix/tonel-issue 16 Apr 19
- Merge pull request #1210 from guillep/feature/spec2 fea 16 Apr 19
 - Merge branch 'dev-1.0' into feature/spec2 16 Apr 19
 - Merge pull request #1212 from jcisc/1211-Some-pre: 16 Apr 19
 - Merge pull request #1218 from tinchodias/1217-Intro: 16 Apr 19
 - Fix #1220 16 Apr 19
 - Merge a54fce5f9441ffd42f3bc508bc3d385e8d0a4563 16 Apr 19
 - Fix #1230 - use correct url to force a 404 - enforce no 16 Apr 19
 - Merge pull request #1223 from Alisu/Issue/2998 l: 16 Apr 19
 - Merge pull request #1228 from demarey/patch-1 16 Apr 19
 - autodeprecations 15 Apr 19
 - autodeprecations 15 Apr 19
 - allow to get the list of available project readers 11 Apr 19
 - Make clone test run on HTTPS to be executable even if SSI 1 Apr 19
 - Fix tests for latest pharo 8 1 Apr 19
 - Fixing because a change in Smalltalk CI 29 Mar 19
 - The update of reprime is not needed anymore 29 Mar 19
 - Merge branch 'dev-1.0' of github.com:pharo-vcs/iceberg 29 Mar 19
 - Removing Pharo 6 and adding Pharo 8 29 Mar 19
 - Fix https://github.com/pharo-project/pharo/issues/2 29 Mar 19
 - v1.6.0 Merge 3c33bc5a2d8f06138ab54753535fb191 29 Mar 19
 - Merge pull request #1202 from hogoww/master t 29 Mar 19
 - Add a Hiedra column to the Repository window. lac 19 Mar 19
 - Fixes pharo-vcs/tonel#74 13 Mar 19
 - fix-migration-of-tagged-packages Merge branch 13 Mar 19
 - ensures base category for packages who define a 13 Mar 19
 - Do not override ComposablePresenter>>extent Fi 8 Mar 19
 - Update README.md 6 Mar 19
 - Merge pull request #1205 from jcisc/1199-Add-a-c 5 Mar 19



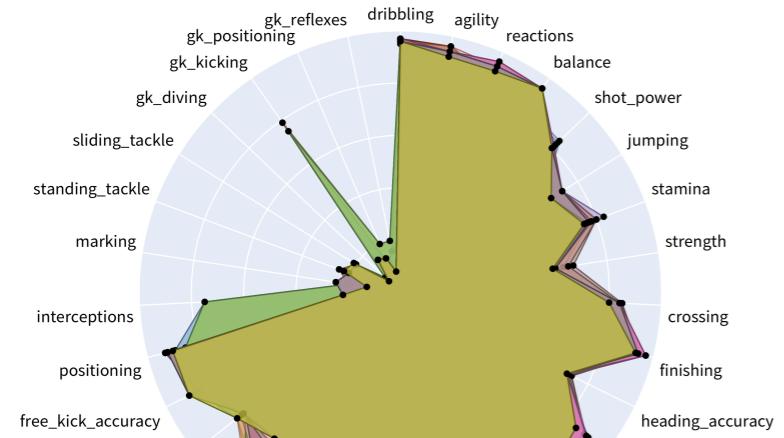


Lionel
Messi



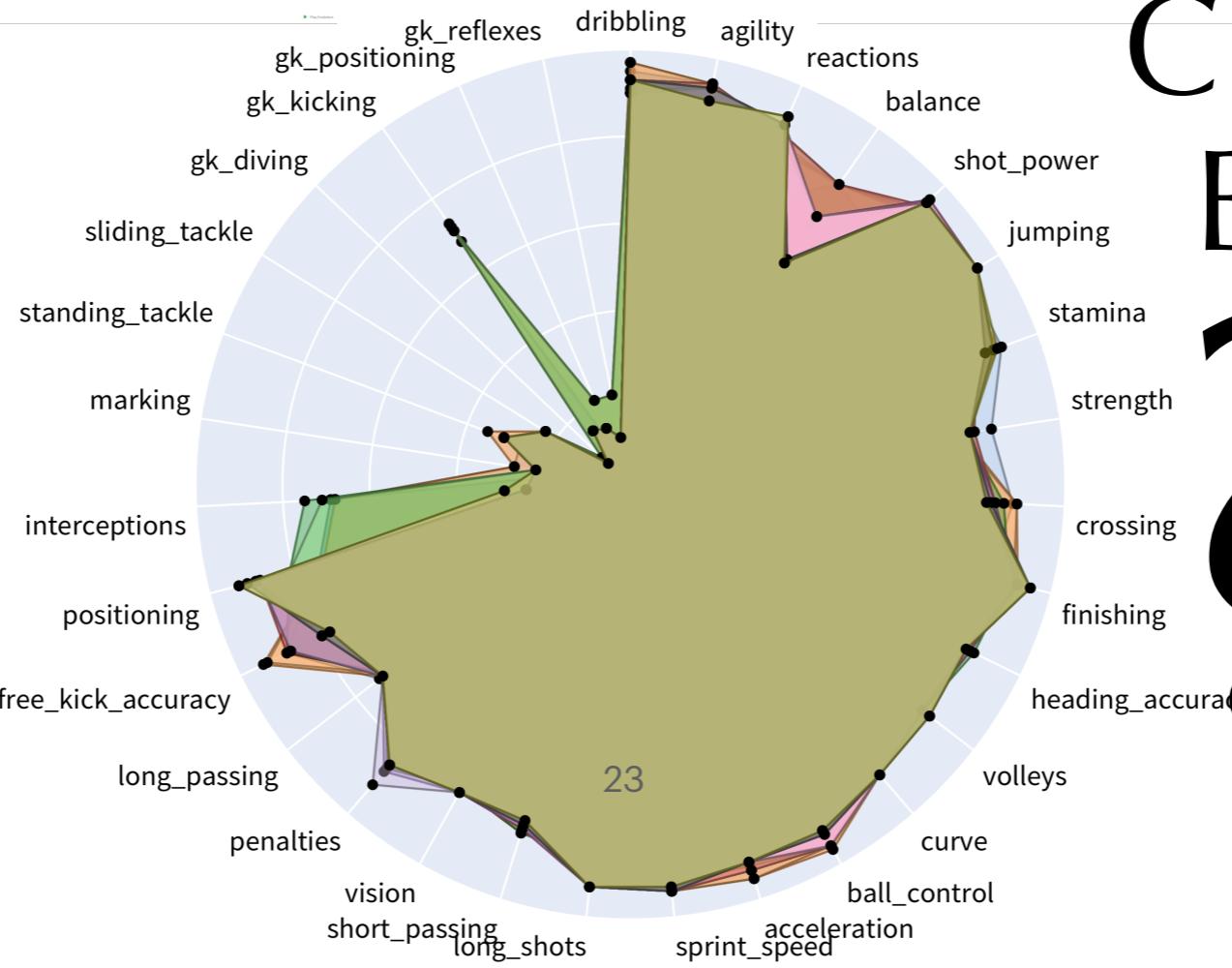
Claudio
Bravo

Lionel Messi

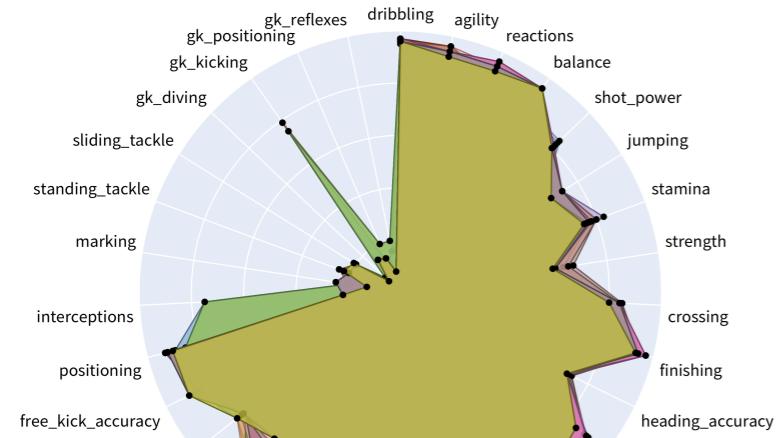


Claudio Bravo

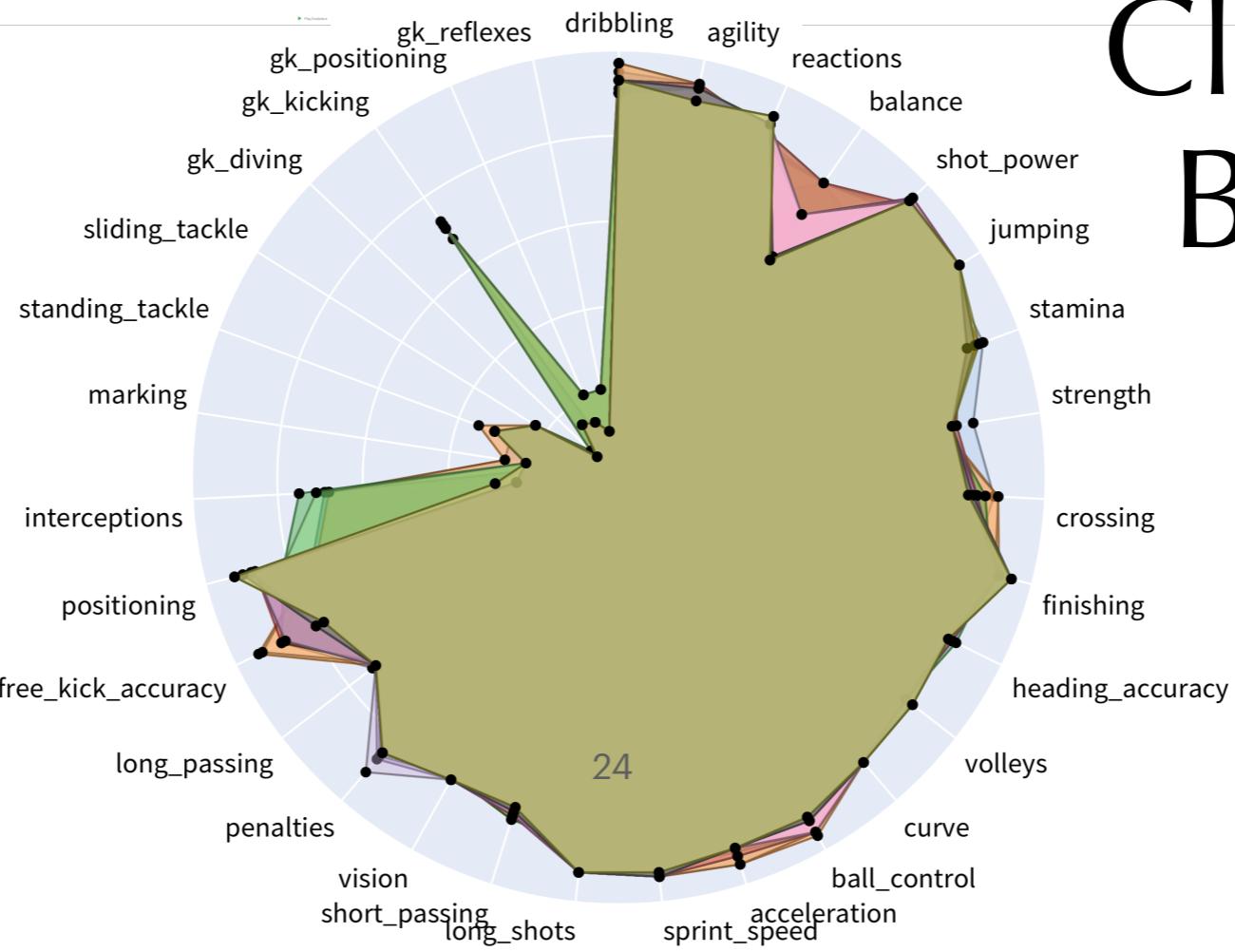
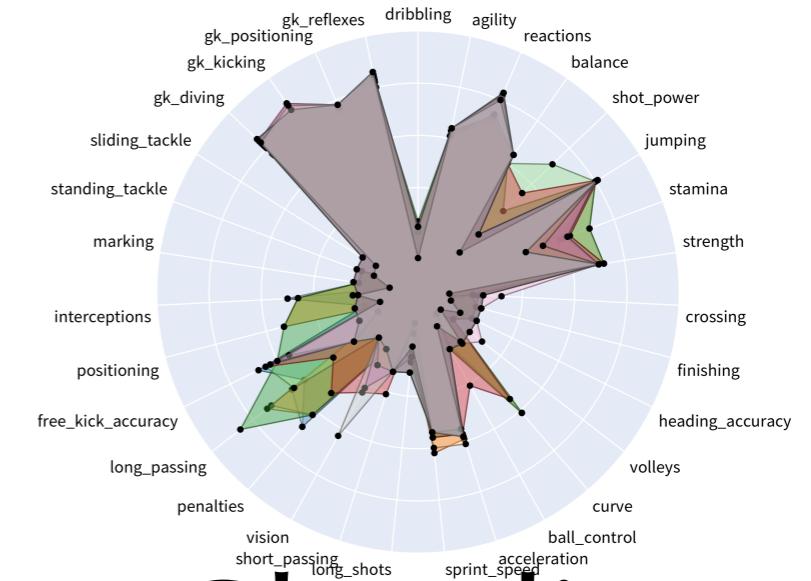
?



Lionel Messi



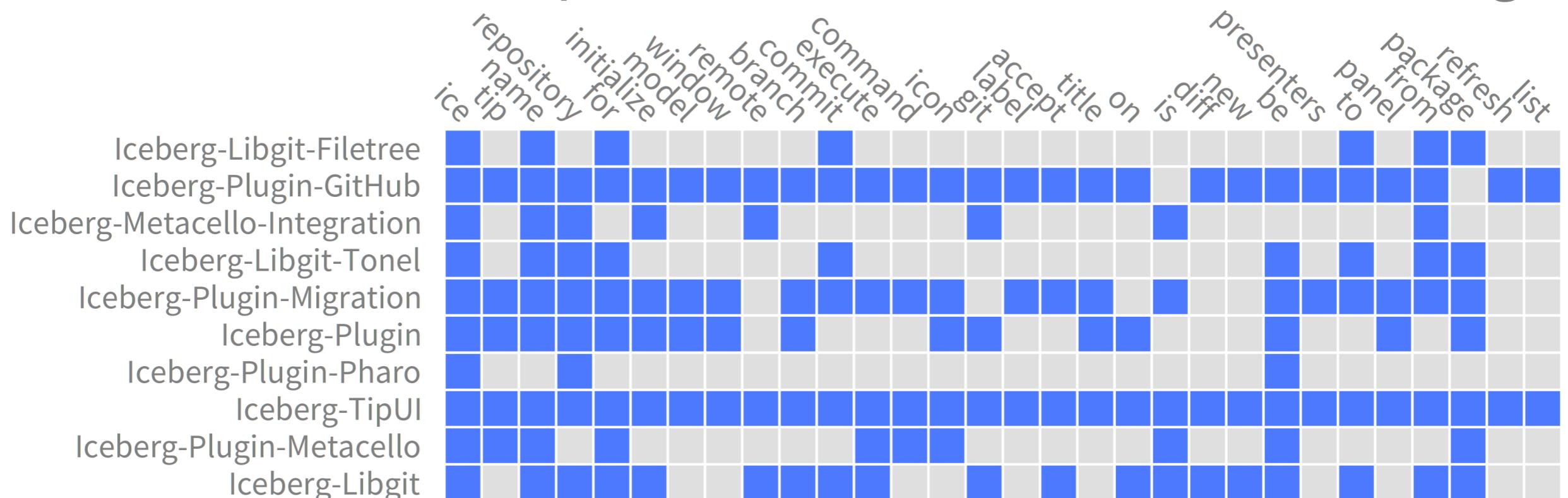
Claudio Bravo



Cristiano Ronaldo

Dependency Structure Matrix

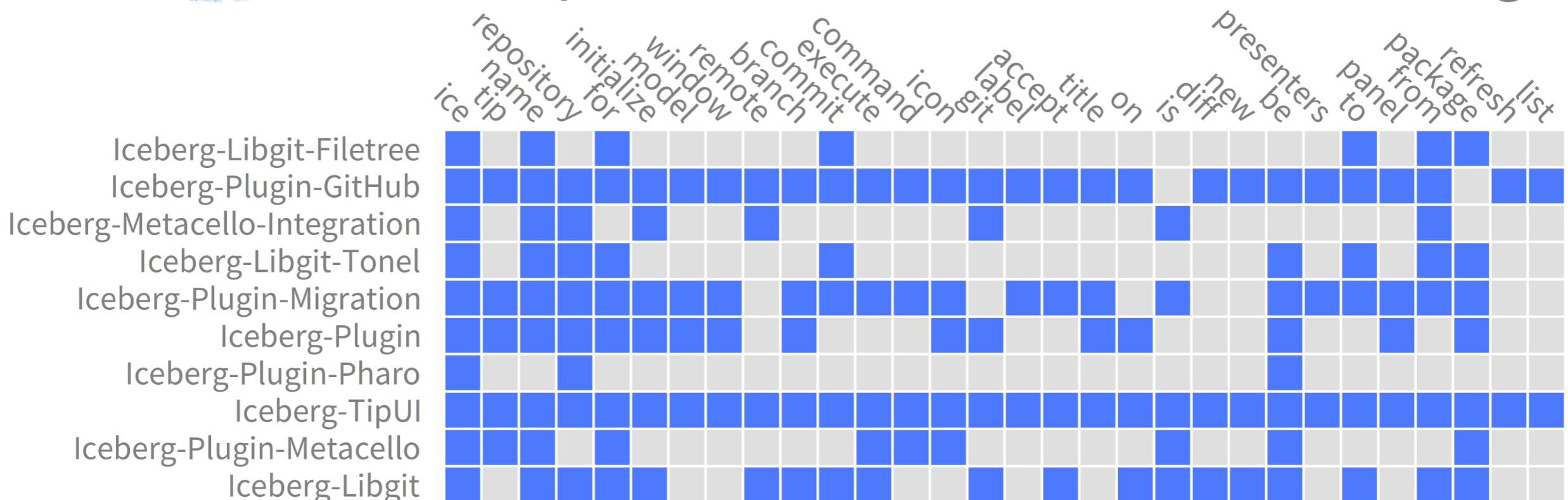
Top 30 selector words used in Iceberg



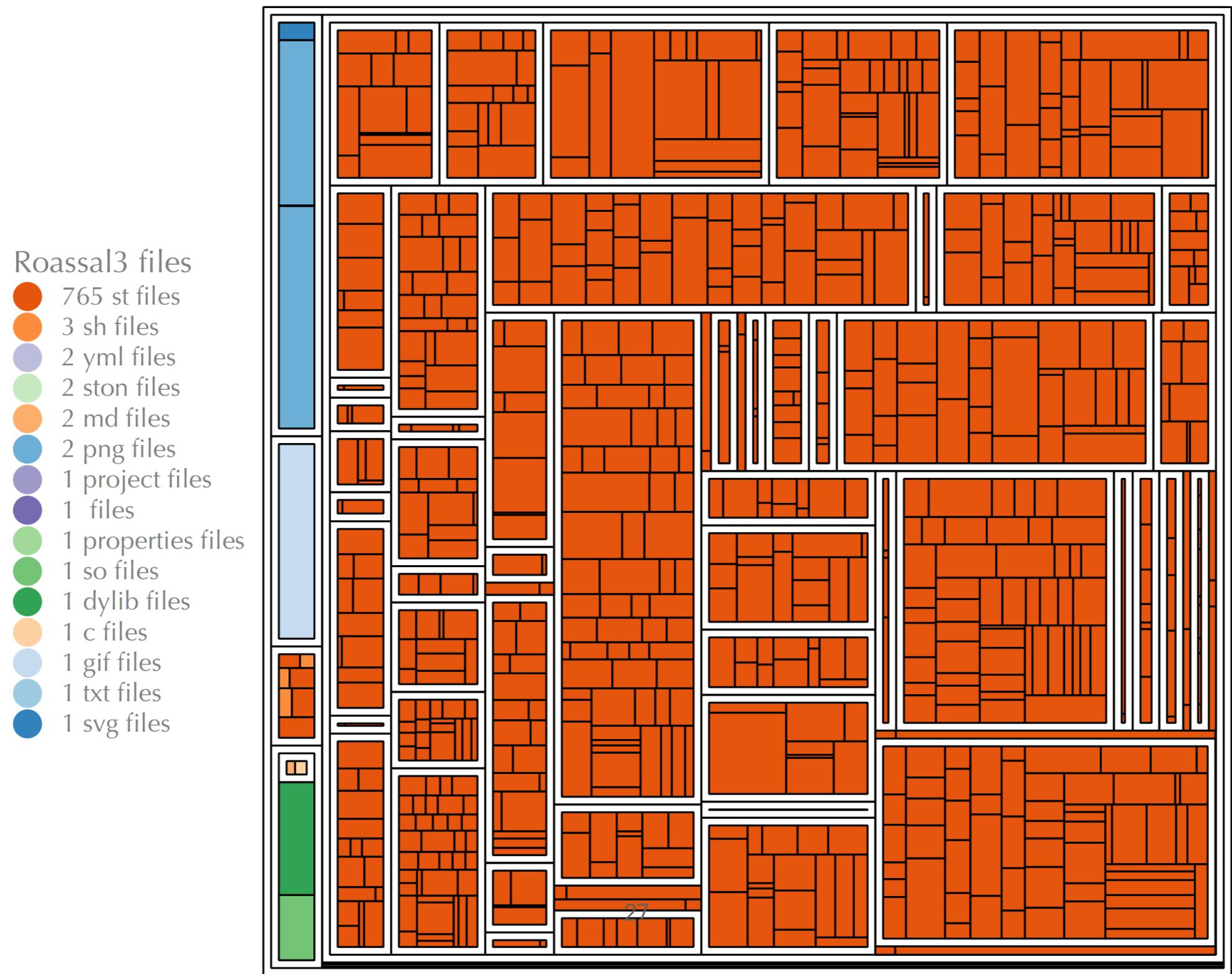
Dependency Structure Matrix



Top 30 selector words used in Iceberg



Treemap



x - □ Inspector on a Dictionary [2 items] ('links'->an OrderedCollection(a Dictionary('source'->0 'target'->1 'value'->124.729) a Dictionary('source'->1 'target'->2 'value'->0.597))

a Dictionary [2 items] ('li...') an OrderedCollection [68 it...] a Dictionary [3 items] ('so...')

Items	Raw	Breakpoints	Meta
+ Key	+ Value		
nodes	an OrderedCollection [48 items]		
links	an OrderedCollection [68 items]		

Items	Raw	Breakpoints	Meta
+ I + Value			
1 a Dictionary [3 items] ('source'->0 'target'->1 'value'->124.729)			
2 a Dictionary [3 items] ('source'->1 'target'->2 'value'->0.597)			
3 a Dictionary [3 items] ('source'->1 'target'->3 'value'->26.862)			
4 a Dictionary [3 items] ('source'->1 'target'->4 'value'->280.321)			
5 a Dictionary [3 items] ('source'->1 'target'->5 'value'->81.144)			
6 a Dictionary [3 items] ('source'->6 'target'->2 'value'->35)			
7 a Dictionary [3 items] ('source'->7 'target'->4 'value'->35)			
8 a Dictionary [3 items] ('source'->8 'target'->9 'value'->11.606)			
9 a Dictionary [3 items] ('source'->10 'target'->9 'value'->63.965)			
10 a Dictionary [3 items] ('source'->9 'target'->4 'value'->75.571)			
11 a Dictionary [3 items] ('source'->11 'target'->12 'value'->10.63)			
12 a Dictionary [3 items] ('source'->11 'target'->13 'value'->22.501)			
13 a Dictionary [3 items] ('source'->11 'target'->14 'value'->46.18)			
14 a Dictionary [3 items] ('source'->15 'target'->16 'value'->104.4)			
15 a Dictionary [3 items] ('source'->15 'target'->14 'value'->113.7)			
16 a Dictionary [3 items] ('source'->15 'target'->17 'value'->27.14)			

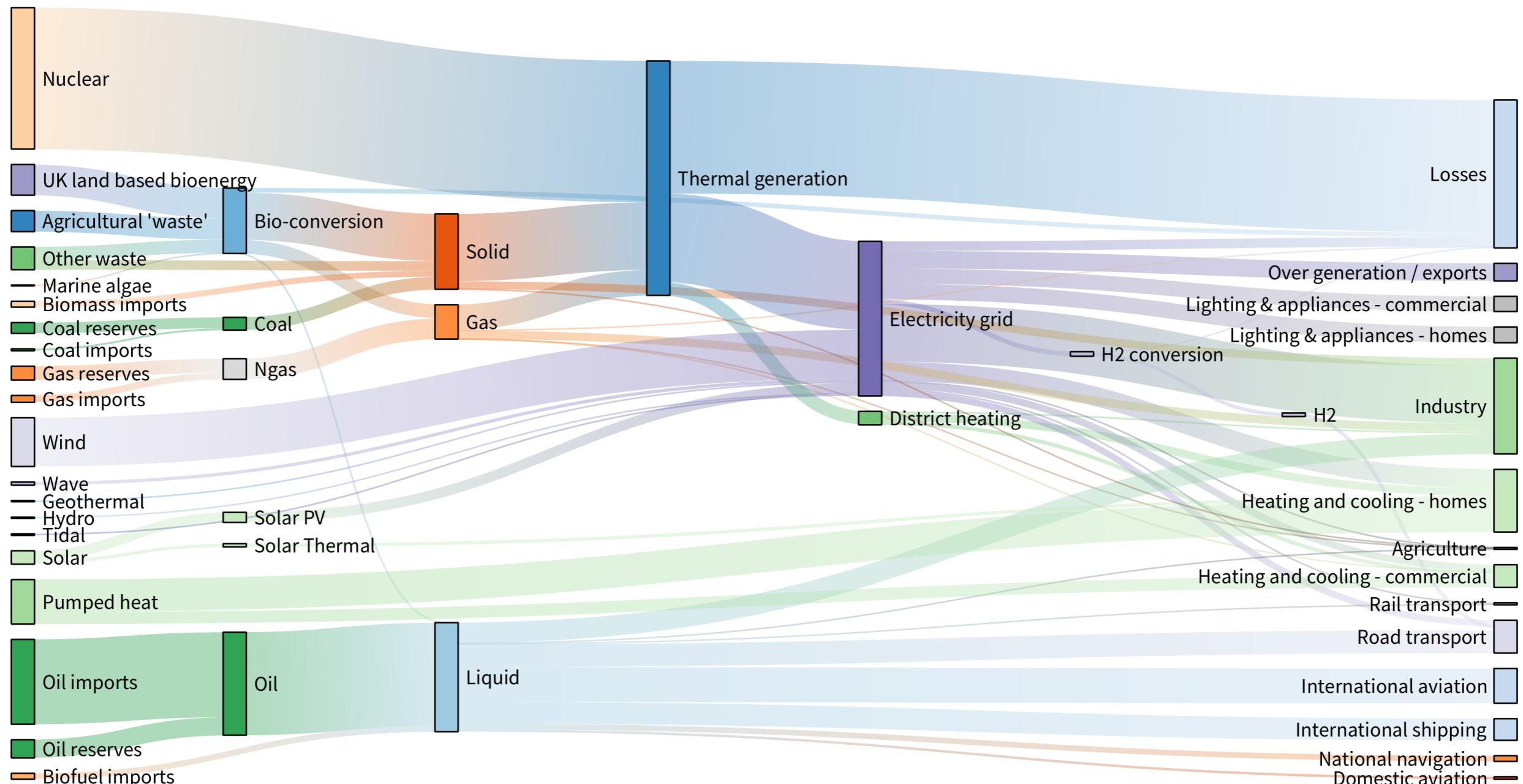
Items	Raw	Breakpoints	Meta
+ Key	+ Value		
source	11		
value	22.505		
target	13		

1 self

1 self

1 self

Sankey



Layouts

Layouts

Pharo Browse Debug Sources System Library Windows Help

Pharo

RSAnimationExamples>>example33AnimatedLayout

Ring-Tests-Core
Ring-Tests-Monticello
Ring-TraitsV2Support
Roassal3
Roassal3-Animation
Roassal3-Animation-Tests
Roassal3-Builders
Roassal3-Chart

RSAnimationExamples
RSBasicAnimationExamp
RSBasicShapeExamples
RSDSMExample
RSHighlightableExample
RSInspectableExample
RSLayoutExamples
RSRenderTreeExamples

instance side ▾
extensions
examples
lines
perlin

example32SimpleClock
example33AnimatedLayout
example34ForceLayout
example35Roassal
example36Title
example37RectangleForceLay
example38PerlinRose
example39Duna
example40Circles
example41River

All Packages ◊ Scoped View | ◊ Flat ◊ Hier. | ◊ Inst. side ◊ Class side | ◊ Methods ◊ Vars | Class refs. Implementors Send

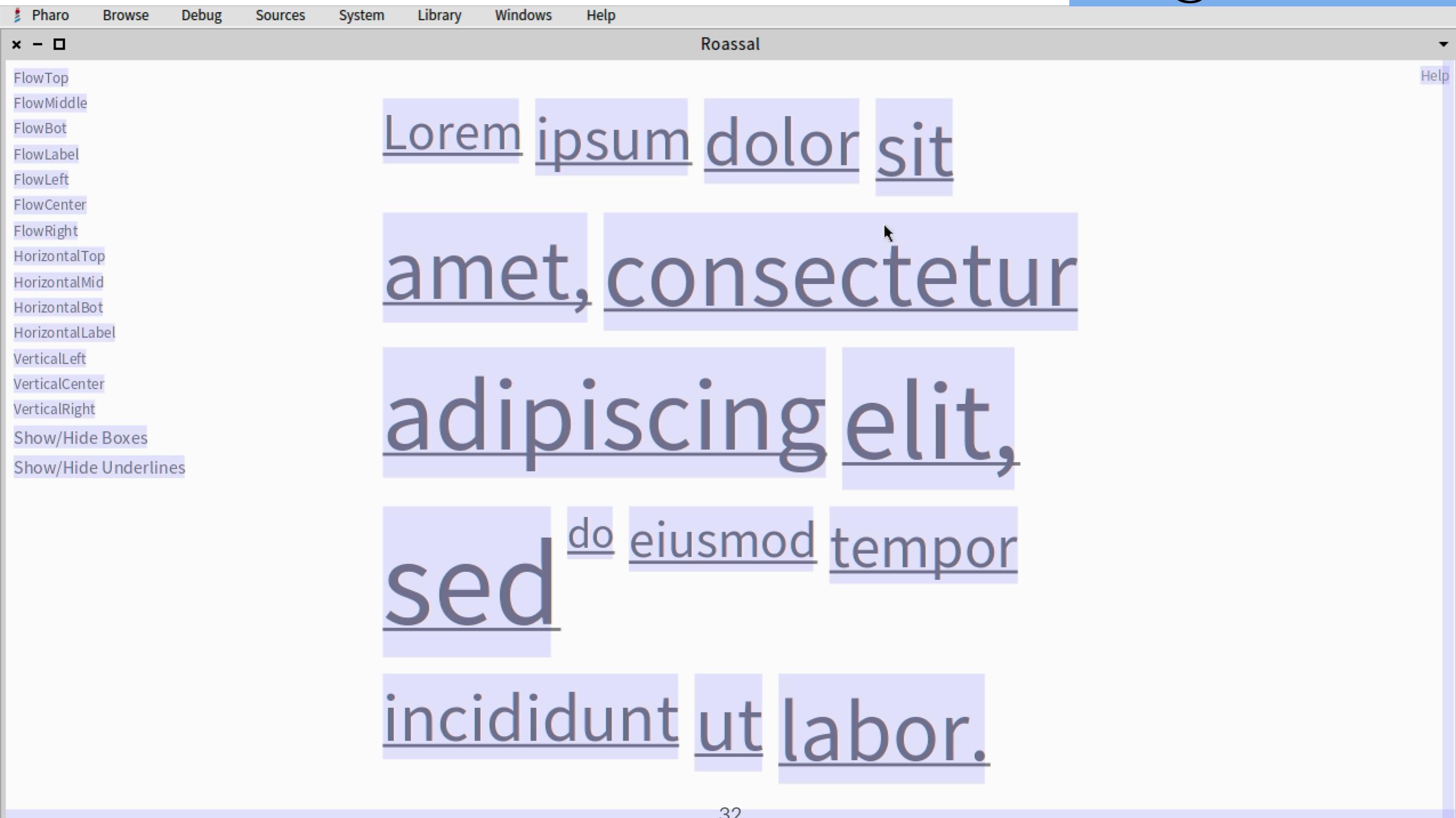
Comment RSAnimationE example33Ani UML-Class Inst. side meth

```
    signalUpdate ];  
when: RSMouseClick do: [ :evt | | pos1 pos2 |  
    pos1 := shapes collect: #position.  
    update value: sel.  
    pos2 := shapes collect: #position.  
    c newAnimation onStepDo: [ :t |  
        shapes doWithIndex: [ :e :i |  
            e translateTo: ((pos1 at: i)  
                interpolateTo: (pos2 at: i) at: t)].  
        c zoomToFit ].  
    c addAll: labels.  
    RSHorizontalLineLayout on: labels.  
    ^ c
```

8/57 [21] examples extension F +L W

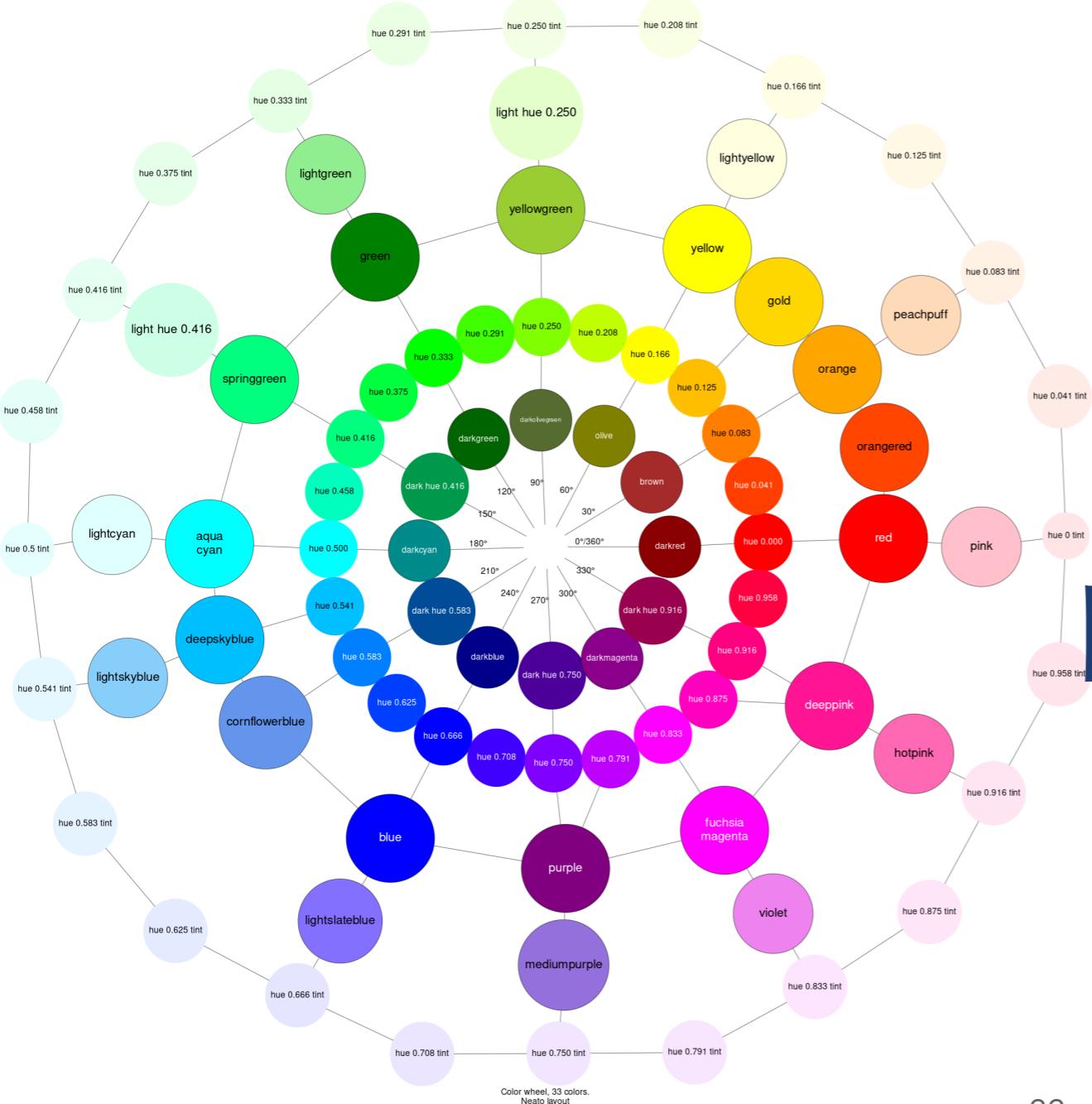
⚠ Sends "questionable" message ✘ ?

Alignments



GraphViz layouts

<https://graphviz.org/>



GraphViz layouts

Pharo Browse Debug Sources System Library Windows Help

x - □

Roassal

Roassal layouts

Tree

Force Based

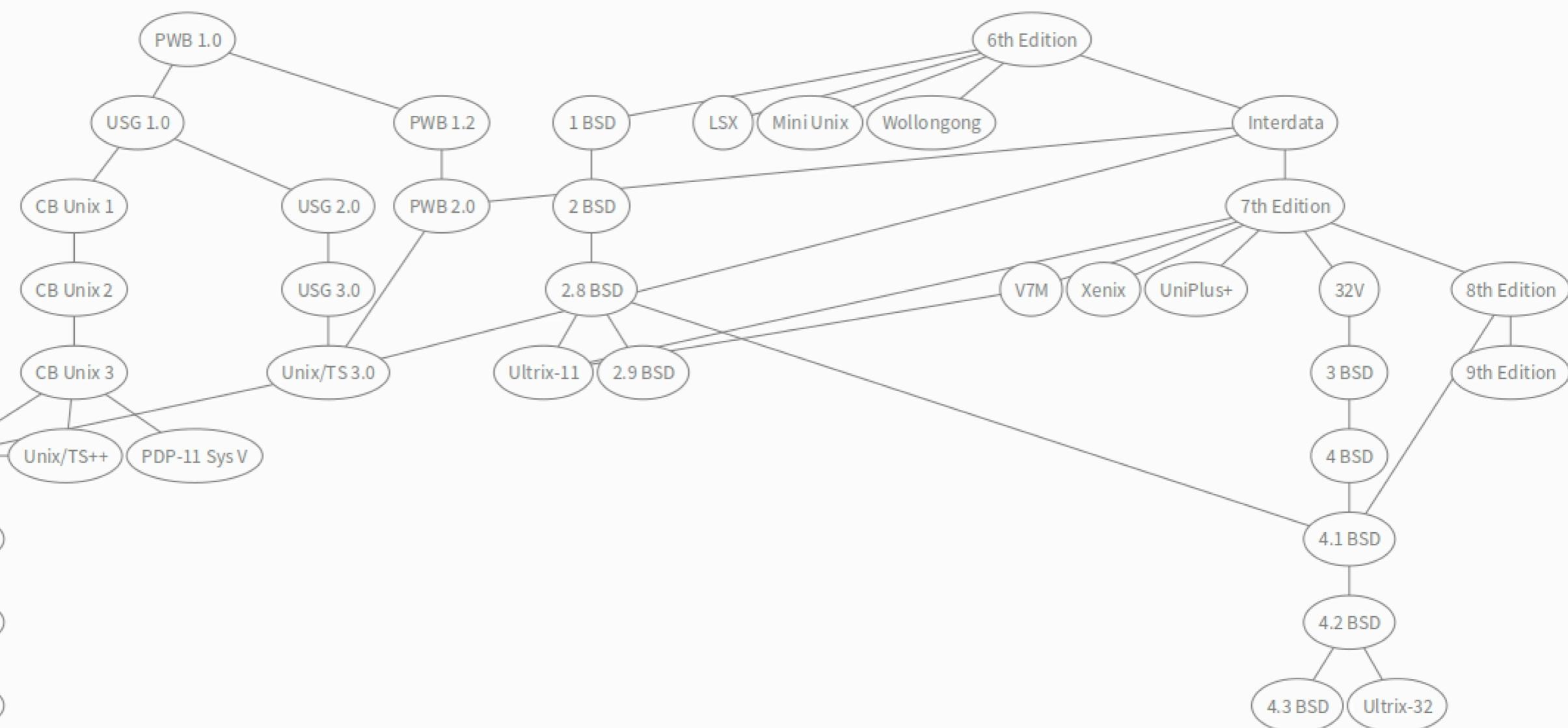
Sugiyama

GraphViz strict

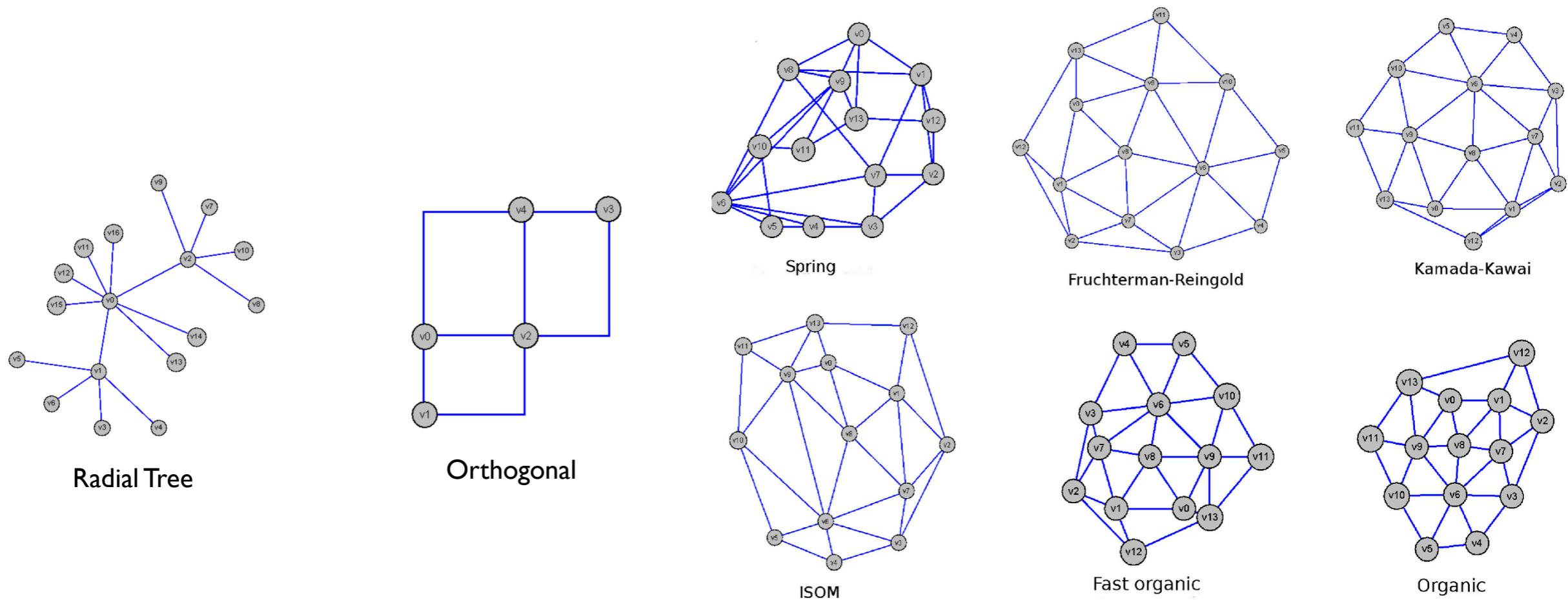
GraphViz neato

GraphViz digraph

GraphViz twoPi



Forthcoming layouts



Animations

From A to B



Transition animation

```
4 roassalCanvas newAnimation  
5   onStepDo: [ :aColor | ... ].
```

```
4 roassalCanvas newAnimation  
5   from: 20@30;  
6   to: 40@ -50;  
7   duration: 1 second;  
8   onStepDo: [ :aPoint | ... ].  
9
```

```
4 roassalCanvas newAnimation  
5   delay: 1 minute;  
6   from: 10;  
7   to: 100;  
8   duration: 5 seconds;  
9   onStepDo: [ :aNumber | ... ].  
--
```

```
4 roassalCanvas newAnimation  
5   from: Color red;  
6   to: Color transparent;  
7   duration: 500 milliSeconds;  
8   onStepDo: [ :aColor | ... ].
```

Easing

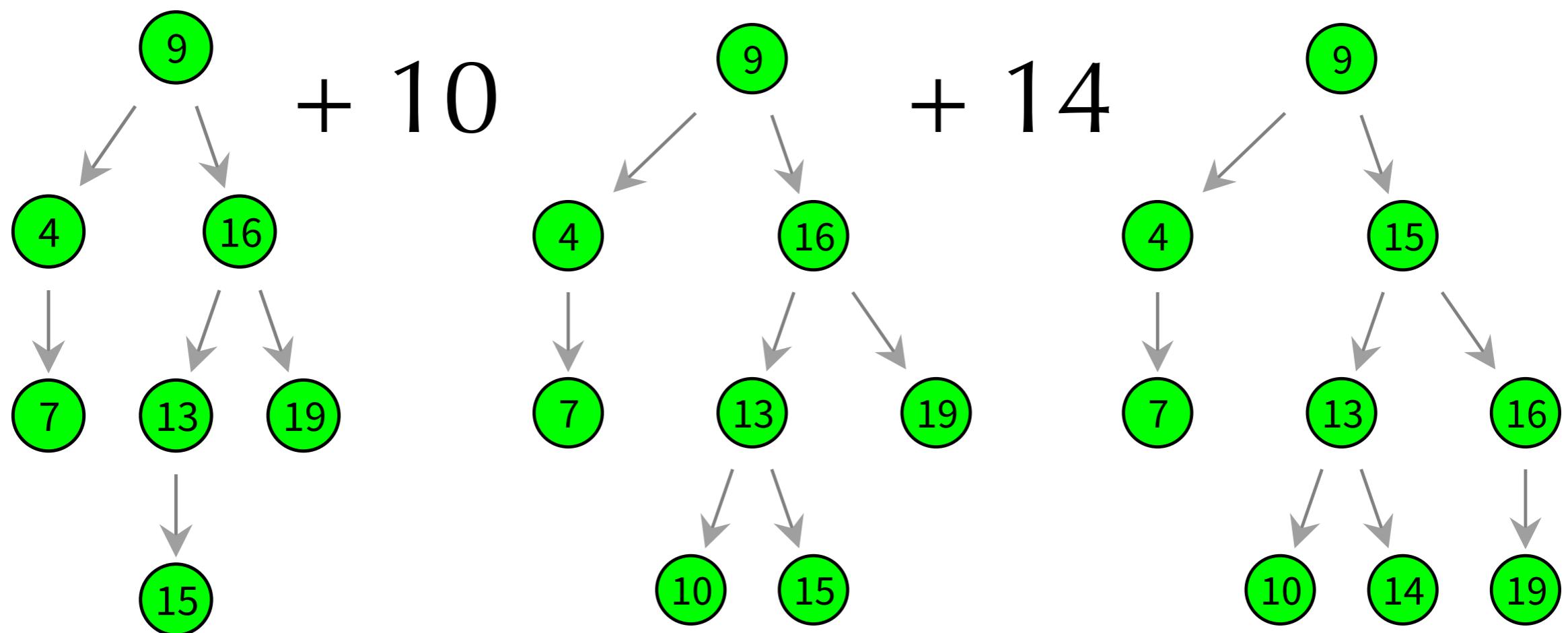
```
60 canvas newAnimation  
61     delay: 0 seconds;  
62     easing: RSEasingInterpolator bounceOut;  
63     duration: 10 seconds;  
64     from: a position;  
65     to: b position;  
66     onStepDo: [ :t | |
```



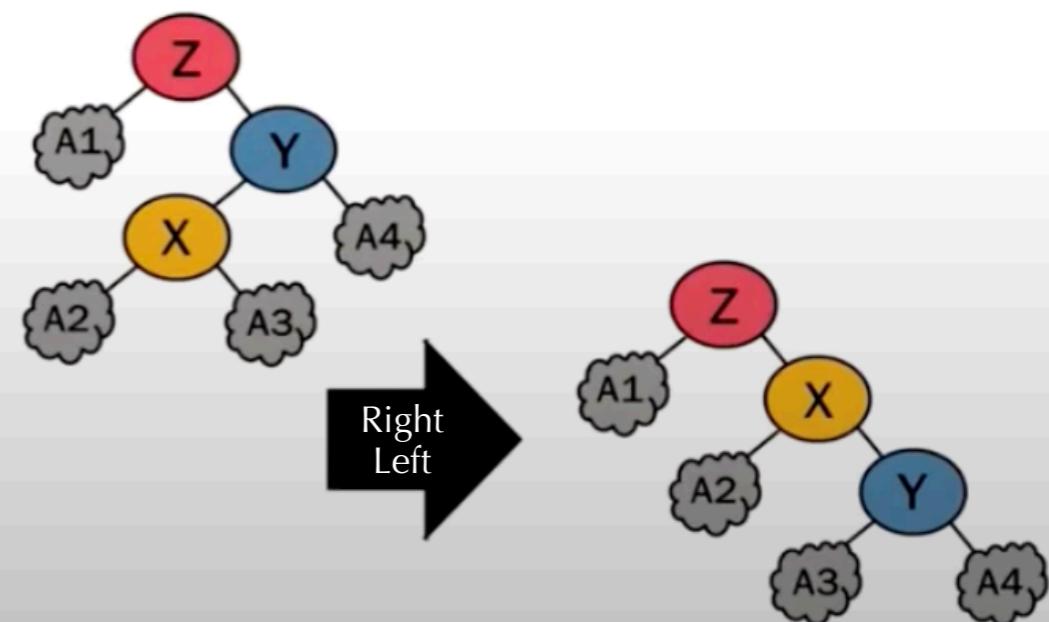
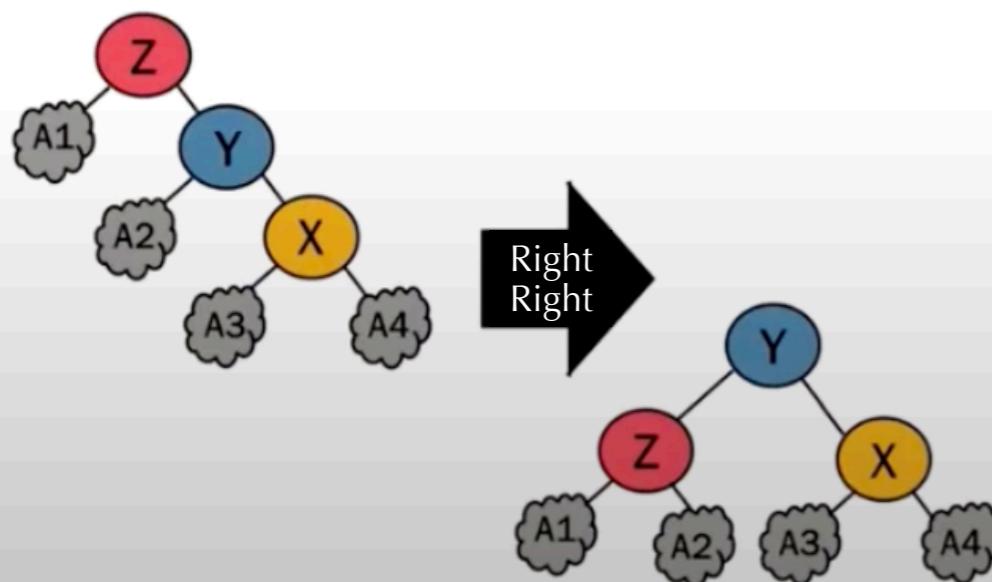
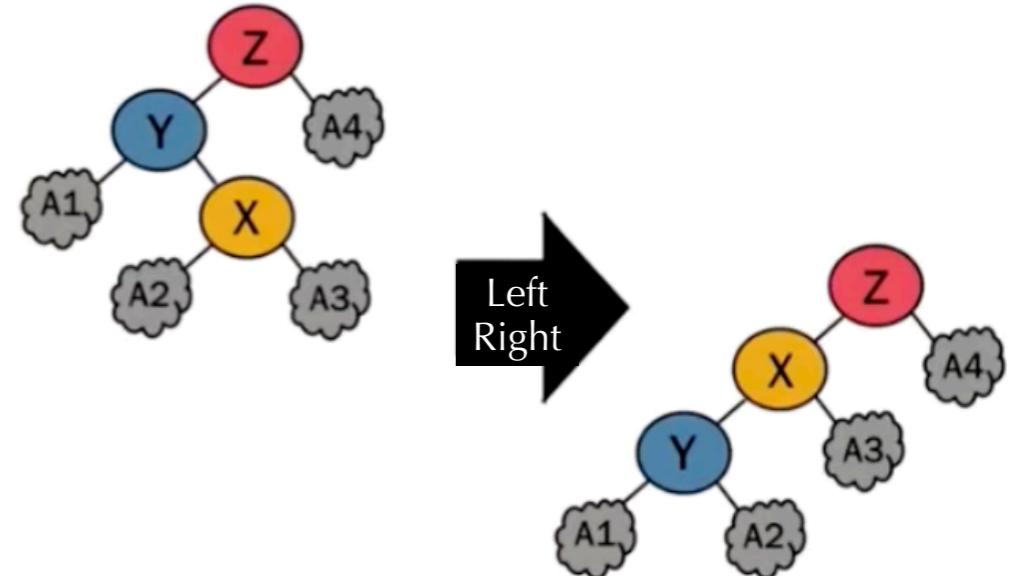
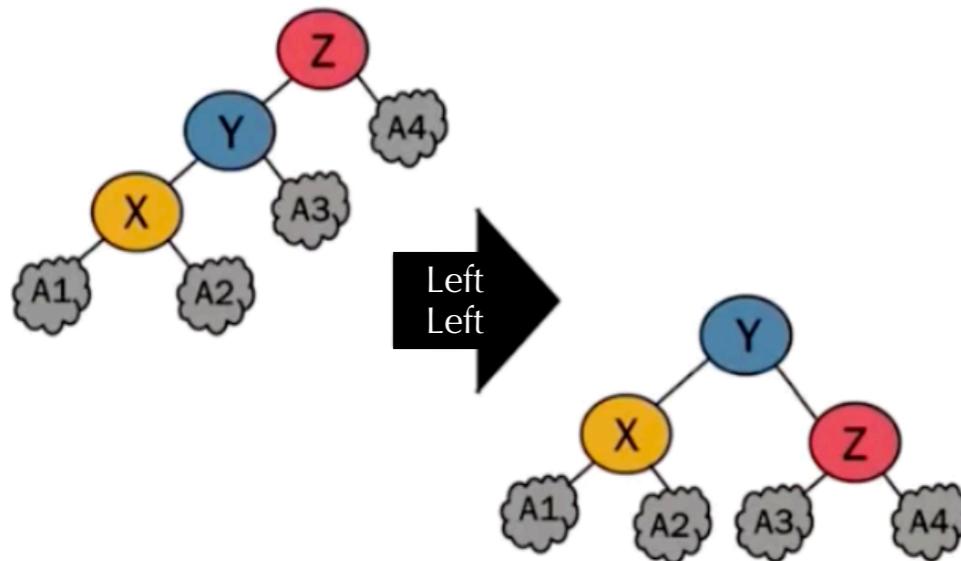
Perlin noise

A photograph of a crowded outdoor market or street scene. Many people are wearing white surgical-style face masks. Some are wearing hats, including wide-brimmed straw hats and a baseball cap. In the background, there are colorful flags and a sign that reads "VIDRIO TEMPLADO A 10LBS". In the foreground, a yellow sign partially visible says "DIRECCION" and "ES".

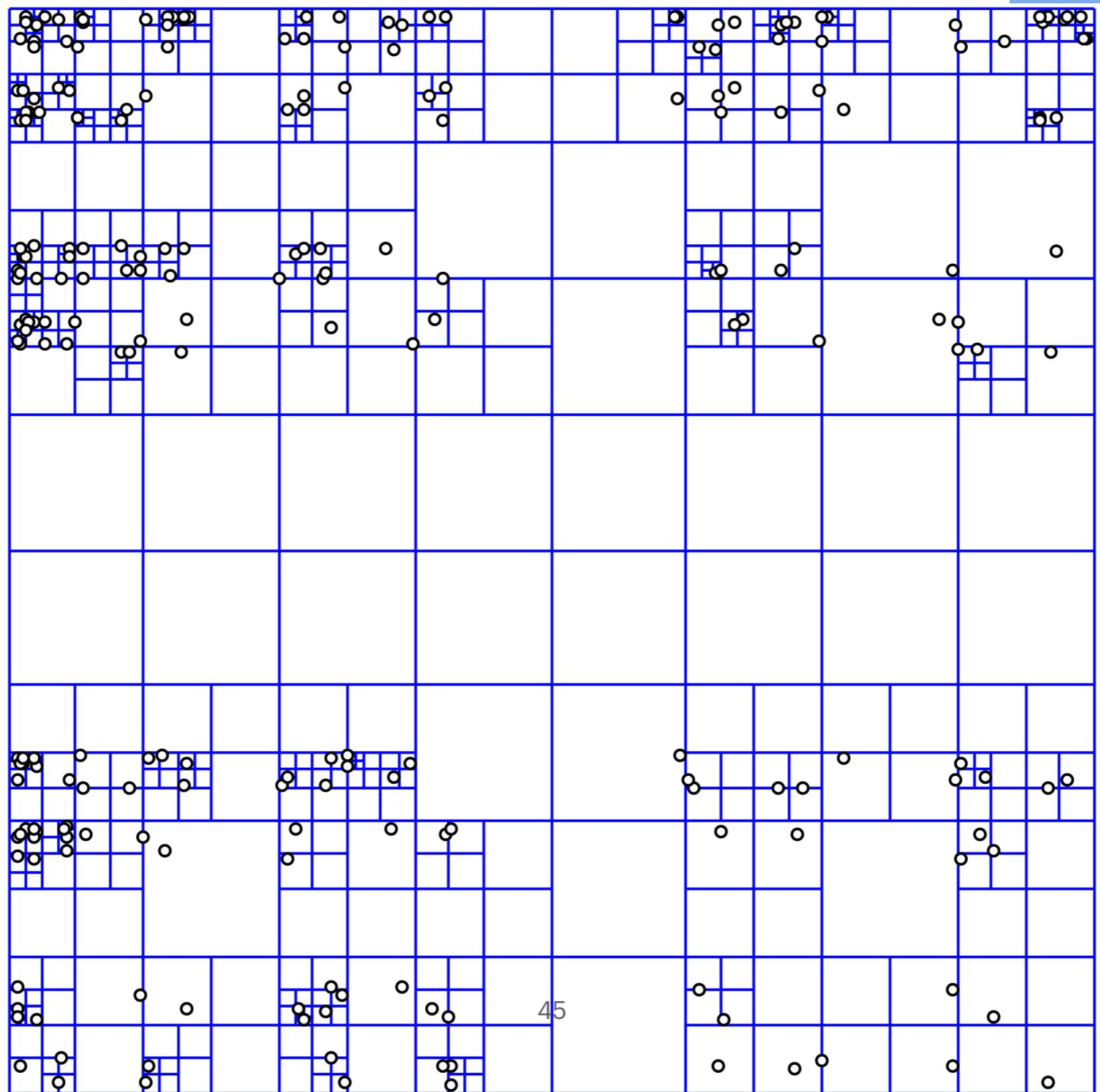
Scaling problem



Rotations

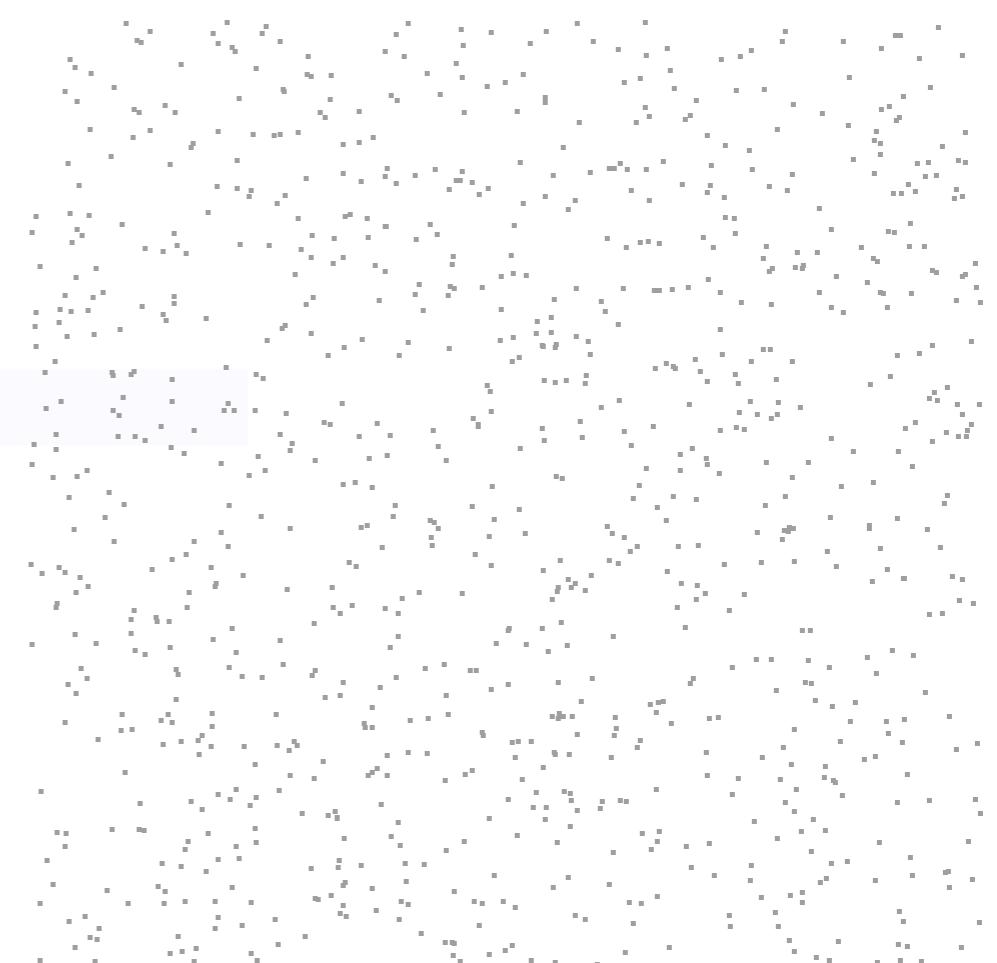


Quad Tree



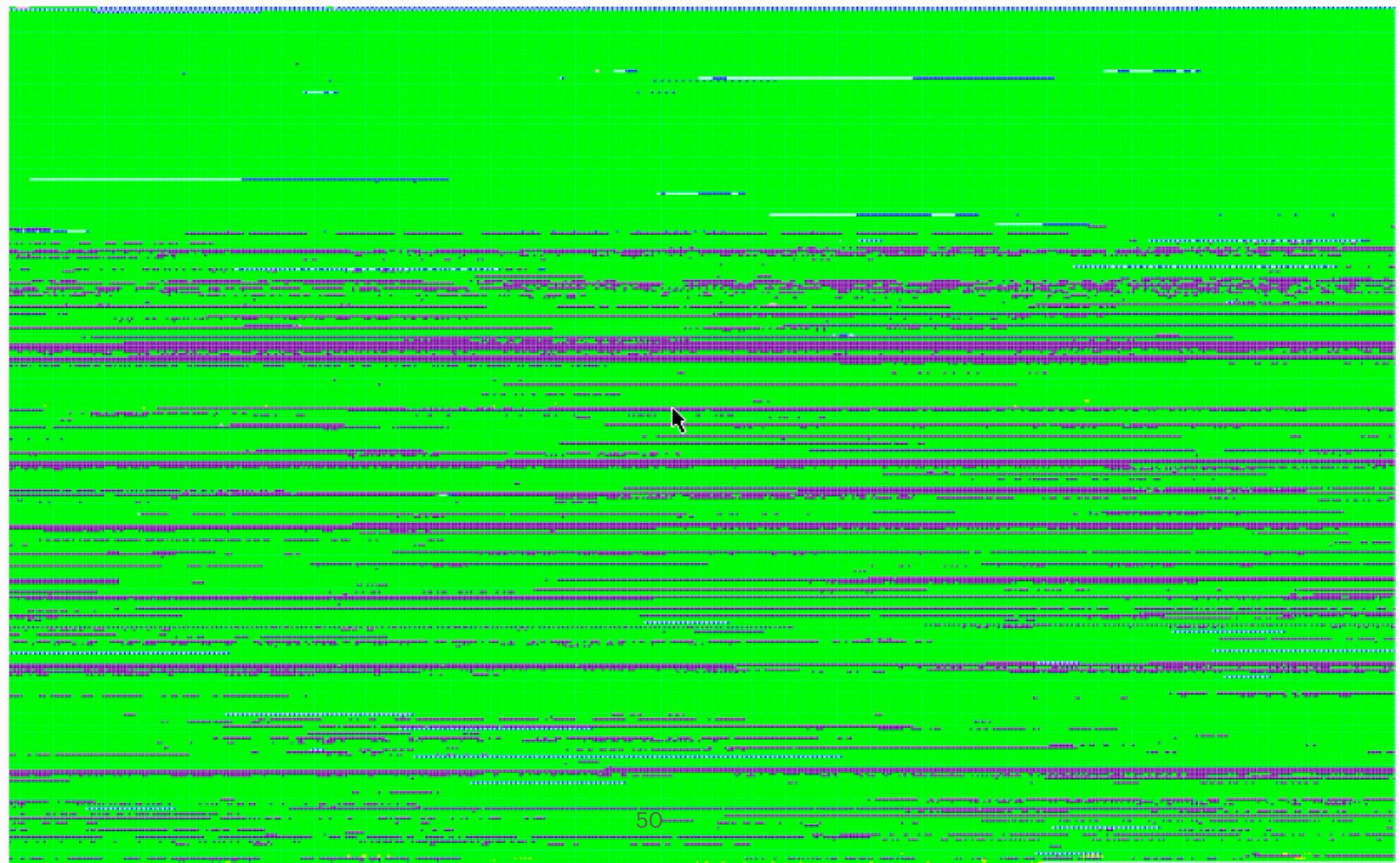
Rectangle Tree

```
1 | tree random canvas |
2 tree := RSRTreeShapeCollection new.
3 random := Random new.
4 random seed: 777.
5 canvas := RSCanvas new.
6 1 to: 1000 do: [ :each | | box |
7   box := RSBox new.
8   box size: 10.
9   box model: each.
10  box popup.
11  box position: (random next @ random next) * 2000.
12  canvas add: box.
13
14  tree add: box.
15 ].
16 canvas @ RSCanvasController.
17 ^ tree|
```



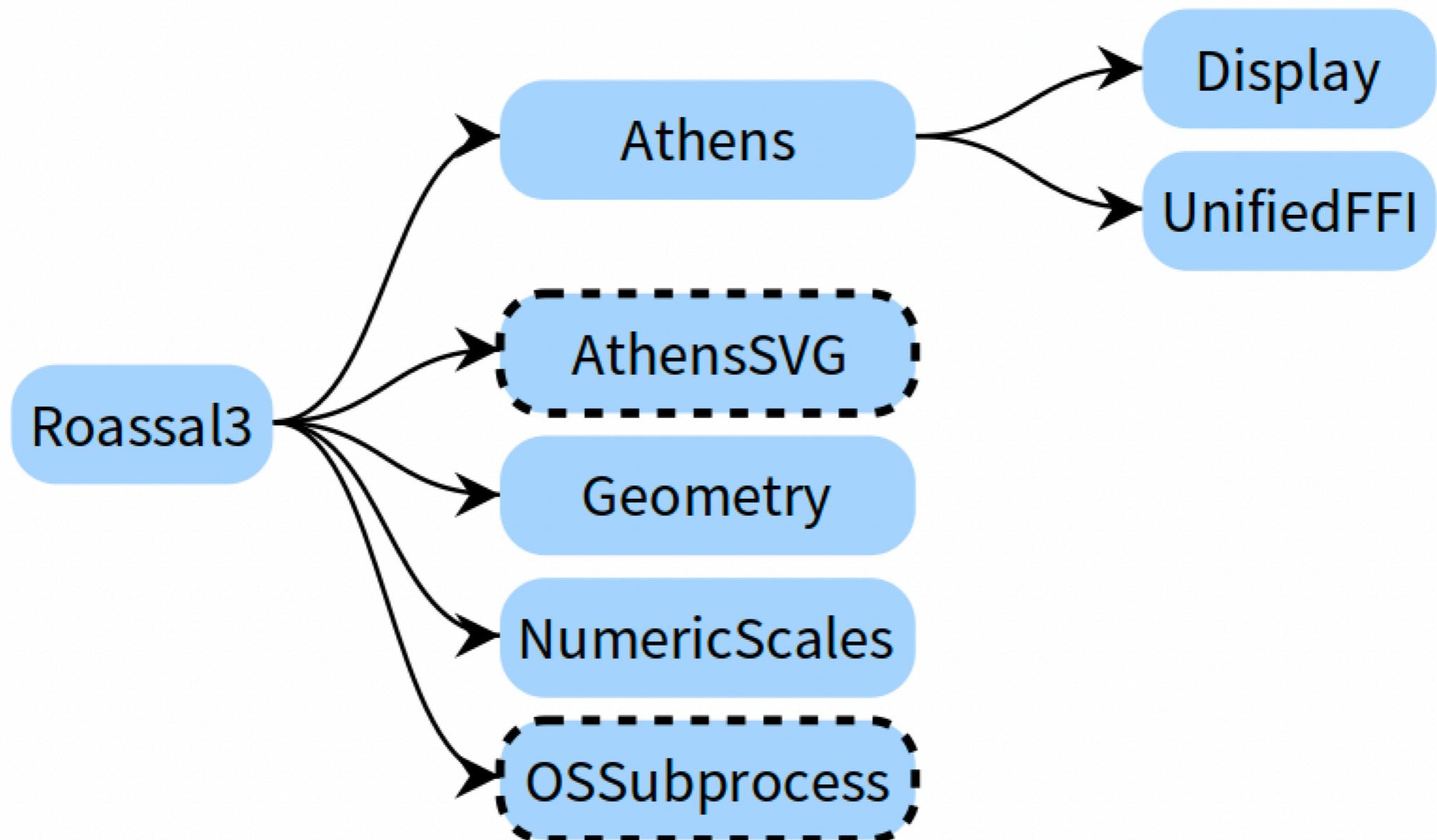
```
1 | tree random canvas |
2 tree := RSRTreeShapeCollection new.
3 random := Random new.
4 random seed: 777.
5 canvas := RSCanvas new.
6 1 to: 1000 do: [ :each | | box |
7   box := RSBox new.
8   box size: 10.
9   box model: each.
0   box popup.
1   box position: (random next @ random next) * 2000.
2   canvas add: box.
3
4   tree add: box.
5].
6 canvas @ RSCanvasController.
7 ^ tree
```





Roassal is cool

Dependencies





Thanks to Schmidt GmbH
53
(Richard and Pavel)

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Country: Bolivia

**Occupation: Software Engineer in
Rmod team, Inria
for 2 years, so contact(contract) me**

Email: akevalion@gmail.com

