



***Developing the Seaside
ecosystem to increase its
productivity***

Cyril Ferlicot-Delbecque - cyril@ferlicot.me



Seaside

seaside 

- Web Framework
- Programmatic XHTML generation
- Callback-based request handling
- Embedded components
- Modal session management

Inventive Toolkit Launcher

Mantis Code Analyzer

All Programs

- ACCESS_GENERALU
- ACCESS_TERMINAL
- ACCESS_TERM_EML
- AD_CHARGEMENT_HISTO
- AD_DELETE_HISTO
- APPEL_DLTAUXPB
- APPEL_TAR630
- BKUP_EML_CHGT
- BKUP_EML_CONS
- BKUP_EML_DEL

50 / 1247

enter search query

Property	Value	Incoming	Outgoing
Lines of dead code	0	<input type="checkbox"/>	<input type="checkbox"/>
Number of children	2	<input type="checkbox"/>	<input type="checkbox"/>
Number of dead children	0	<input type="checkbox"/>	<input type="checkbox"/>
Number of external providers	1	<input type="checkbox"/>	<input type="checkbox"/>
Number of incoming links	25	<input type="checkbox"/>	<input type="checkbox"/>
Number of internal providers	1	<input type="checkbox"/>	<input type="checkbox"/>
Number of lines of code	444	<input type="checkbox"/>	<input type="checkbox"/>
Number of outgoing links	1	<input type="checkbox"/>	<input type="checkbox"/>

```

1 10 ENTRY ACCESS_TERMINAL(PRG.OPTION_TERM_ID.RETURNCODE)
2 20 !*****
3 30 !* ACCES AU PRG SUIVANT LE TERMINAL
4 40 !*****
5 50 ! DATE *AUTEUR *MODIFICATIONS * MARKER *
6 60 !*****
7 70 !* 30/01/2004 * JDB * CREATION PROGRAMME *
8 80 !* 03/10/2005 * OD * AJOUT ACCES FRA POUR WINDELS
9 90 !* 21/11/2005 * CVD * SUPPRESSION BLOCAGE EMPLOYEUR FRA
10 100 !* 29/11/2009 * FFE * AJOUT BLOCAGE SUR RACHAT
11 110 !* 04/06/2007 * AVD * DEMANDE DES ATTESTATIONS FISCALES
12 111 !* 14/06/2007 * AVD * AJOUT BLOCAGE CD_GESTION_EML
13 112 !* 06/07/2007 * DJ * AJOUT USERS POUR REPRIS EML/FILI MAIL 04/05 *
14 113 !* * AJOUT MDH POUR MOIS RENOUV ET TAUX PB (070707)
15 114 !* 03/09/2007 * DF * AJOUT ACCES ZONES POUR DLPUP033 + USER DF *
16 115 !* 18/09/2007 * DH * AJOUT ACCES ZONES POUR DLPME004 (PF7)
17 116 !* 14/01/2008 * LV * AJOUT ACCES ZONES POUR DLPME035 (PF2)
18 117 !*
19 118 !* 13/02/2008 * DV * AJOUT ACCES ZONES POUR DLPUP003 ET DLPUP106 *
20 119 !* 26/03/2008 * BS * AJOUT ACCES ZONES POUR DLPME011 (PF5)
21 120 !* 31/03/2008 * BS * AJOUT ACCES ZONES POUR DLPME036 (PF2)
22 121 !*
23 122 !* 29/04/2008 * SDM * PLUS D'ACCES POUR VIE GRP LO
24 123 !* 04/06/2009 * JDB * PLUS D'ACCES POUR MARC DE H
25 124 !* 27/01/2010 * LVD * AJOUT ACCES ZONES POUR DLP
26 125 !* 24/02/2010 * MDZ * G20100132 + REMISE A NIVEAU F
27 126 !* 26/02/2010 * MDZ * G20100142 (KV DANS ACCEPT-M
28 127 !* 11/03/2010 * MDZ * G20100315 (OPTION 25 DLPME0
29 128 !* 16/11/2010 * MDZ * G20101103 OPTION PF4 POUR C
30 129 !* 09/12/2010 * DH * G20101201 AJOUT C_VERROENS I
31 130 !* 09/12/2010 * DH * BLOCAGE PF4 POUR TOUS ENTRI
32 131 !* 03/02/2011 * BS * G20110119 : ACCES EN PF19 DEBI
  
```



synectique Code Analyzer

No current tag

Filters: Namespaces, Types, Methods, Contains duplication, Statically Dead

- ENTITIES MATCHING FILTERS
- AC AbstractDmxDevice
 - AC AbstractScroller
 - C AddSat
 - C ApplicationConfigurationHelper
 - AC ArduinoOutput
 - C ArtnetDevice
 - C ArtnetDeviceTest
 - C Attractor
 - C BeatHorzShift
 - C BeatListener
 - E BeatToAnimation
 - C BeatVerticalShift
 - C BlinkenHelper
 - C BlinkenImage
 - C BlinkenLibrary

ABSTRACTDMXDEVICE.JAVA OVERVIEW QUICK BLOCK AND METHODS

Display internal tags Display dependencies tags

```

1 /**
2  *
3  * @author michu
4  *
5  */
6 public abstract class AbstractDmxDevice extends Output {
7
8     private static final Logger LOG = Logger.getLogger(AbstractDmxDevice.class);
9
10    /** The display options, does the buffer needs to be flipped? rotated? */
11    protected List<DeviceConfig> displayOptions;
12
13    /** The output color format. */
14    private List<ColorFormat> colorFormat;
15
16    /** define how the panels are arranged */
17    private List<Integer> panelOrder;
18
19    /** The x size. */
20    private int xResolution;
21
22    /** The y size. */
23    private int yResolution;
24
25    //dmx specific settings
26    protected int sequenceID;
27    protected int pixelsPerInverse;
  
```

ENTITIES DEPENDING ON ME

- ArtnetDevice (From: output)
- E1_31Device (From: output)
- PropertiesHelperTest (From: properties)

ENTITIES I DEPEND ON

- ApplicationConfigurationHelper (From: properties)
- Class (From: lang)
- InetAddress (From: net)
- Level (From: logging)
- List (From: util)

Tag	Attribute	Accesses
<input type="checkbox"/>	LOG	5
<input type="checkbox"/>	colorFormat	2
<input type="checkbox"/>	displayOptions	5

Property	Value
Cyclomatic complexity	18
Is dead entity	false
Number of children	26





**Material
Design
Lite**

ChartJs
for
Seaside

**Telescope
Cytoscape**

Prism
Code
Displayer

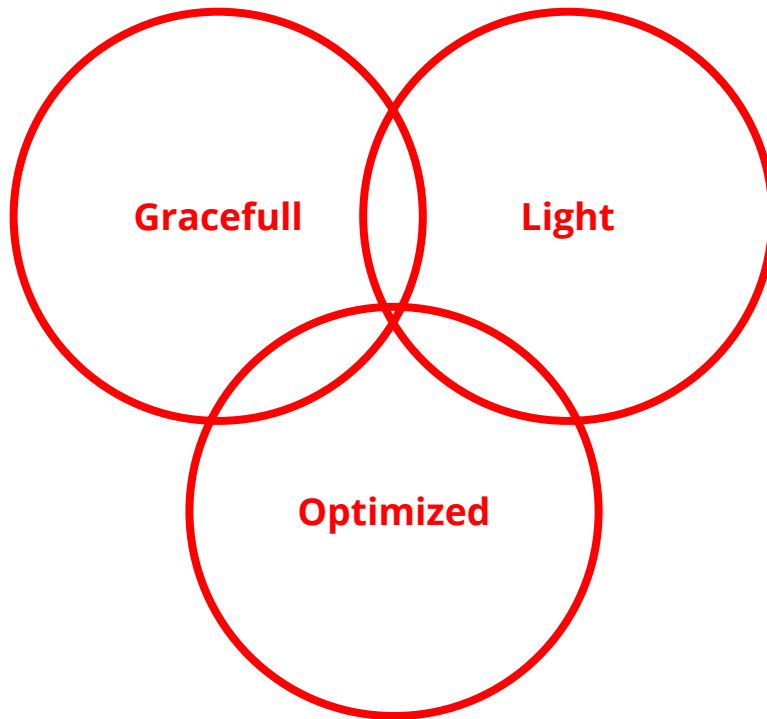


Material Design Lite

A front-end template that helps you build
fast, modern mobile web apps



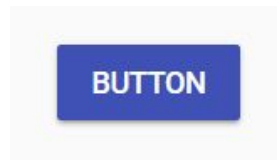
Web Components





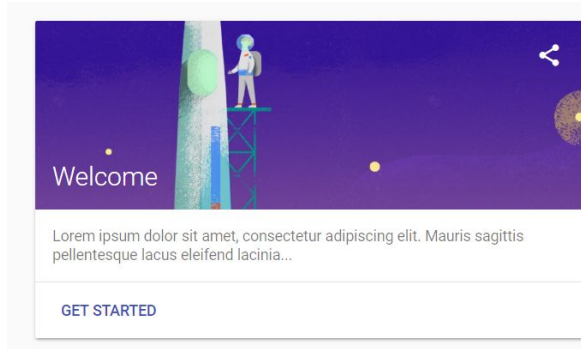
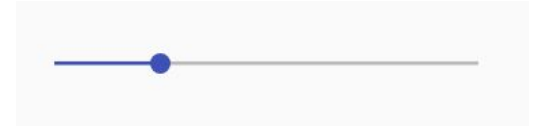
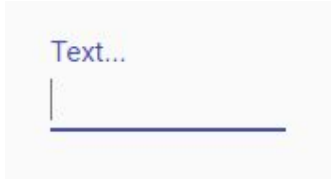
Web Components

```
html mdlButton  
  raised;  
  primaryColor;  
  with: 'Button'
```





Web Components





Widgets

html render:

```
(MDLSortableTable new
  header: {'Class' . 'SuperClass' . 'Number of subclasses'};
  rows: [ WAObject allSubclasses
    collect: [ :class |
      {class printString.
        class superclass printString.
        class subclasses size} ] ];
  rowsPerPagePossibilities: #(10 50 100 200))
```

↓ Class	SuperClass	Number of subclasses
JQAllFunctionalTests	WAComponent	1
JQAllFunctionalTestsLibrary	WAFileLibrary	1
JQAnimate	JQPlugin	0
JQAnimateFunctionalTest	JQFunctionalTest	0
JQAutocomplete	JQWidget	0
JQAutocompleteFunctionalTest	JQUIFunctionalTest	0
JQBaseTheme	WAFileLibrary	24
JQBlackTieTheme	JQBaseTheme	0
JQBlitzerTheme	JQBaseTheme	0
JQButton	JQWidget	0

Rows per page: 10 ▾ 11 - 20 of 846 < >



Extensions

- Based on Traits
- Root Dialog
- Resizable left panel
- Resizable right panel with tabs





Coming soon: v1.3.0

- Compatibility with Gemstone
- Coverage rose from 3% to > 60%
- Lot of cleaning
- More demos



Repository: <https://github.com/DuneSt/MaterialDesignLite>

Script:

`Metacello new`

```
githubUser: 'DuneSt' project: 'MaterialDesignLite' commitish: 'v1.x.x' path: 'src';  
baseline: 'MaterialDesignLite';  
load
```

Demo: <http://localhost:8080/MDLDemo> / <https://mdl.ferlicot.fr>




Telescope Cytoscape

An engine for efficiently creating
meaningful web visualizations



Telescope

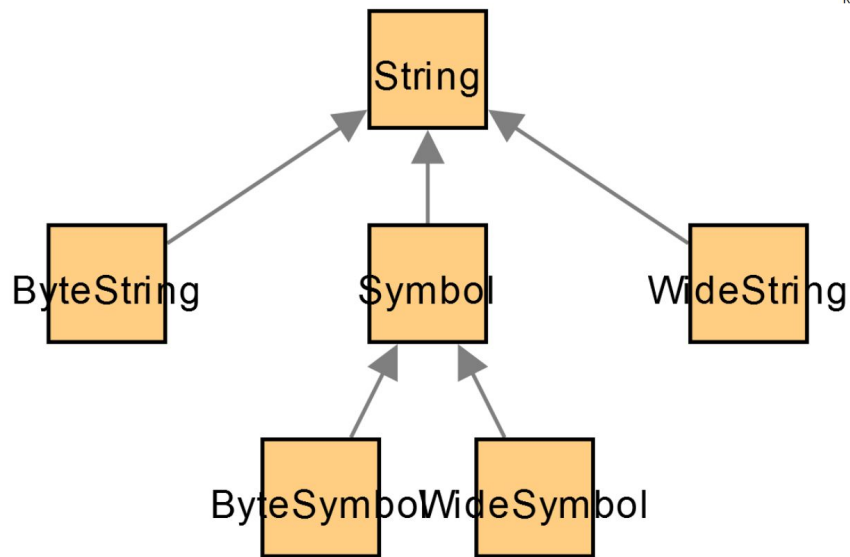
- Create meaningful **Visualizations**
- Render them with **Connectors**
 - Roassal (Currently obsolete)
 - Cytoscape (Web connector)
 - Bloc soon?



Simple example

```
visu := TLVisualization new
  addNodesFromEntities: String withAllSubclasses;
  connectFollowingProperty: #superclass;
  layout: TLTreeLayout;
  yourself.
```

```
visu styleSheet
  width: 30;
  height: 30;
  nodeLabel: #asString
```





Style customizations

```
visu := TLVisualization fromEntities: (1 to: 60).
```

```
visu styleSheet
```

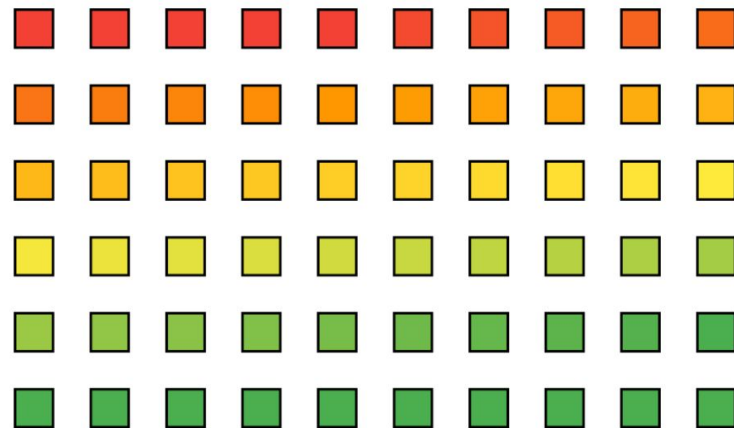
```
  backgroundColor:
```

```
    ((MDLColor red property: #yourself gradientAt: 5)
```

```
      to: MDLColor orange at: 15;
```

```
      to: MDLColor yellow at: 30;
```

```
      to: MDLColor green at: 50)
```





Layouts & Interactions

```
(visu := TLVisualization fromEntities: (1 to: 9))  
  layout:  
    ((TLTreeLayout angle: 270)  
      useOutgoingLinks;  
      leavesGap: 20;  
      levelGap: 80;  
      yourself);  
  addInteraction:  
    (TLExpandCollapseNodesAction property: [ :n | (0 to: 9)  
      collect: [ :i | n * 10 + i ] ]) onClick.  
visu styleSheet nodeLabel: #asString
```

9

3

2

1

4

8

6

7

5





Repository: <https://github.com/TelescopeSt/TelescopeCytoscape>

Script:

`Metacello new`

```
githubUser: 'TelescopeSt' project: 'TelescopeCytoscape' commitish: 'v1.x.x' path: 'src';  
baseline: 'TelescopeCytoscape';  
load
```

Demo: <http://localhost:8080/TelescopeDemo/>
<https://demos.ferlicot.fr/TelescopeDemo>

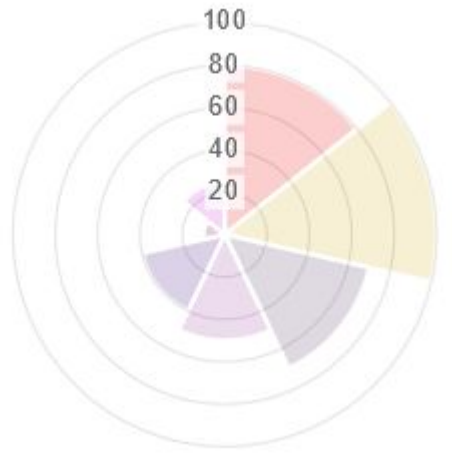
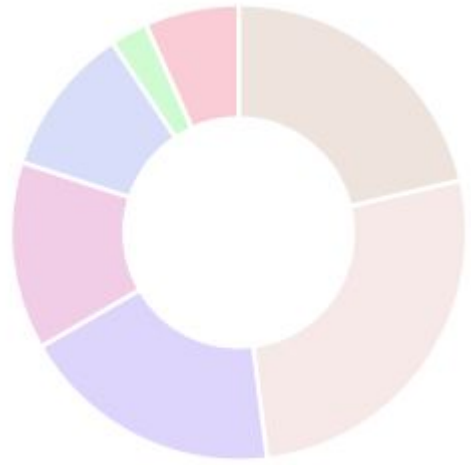


ChartJs for Seaside

Simple charting for your web application

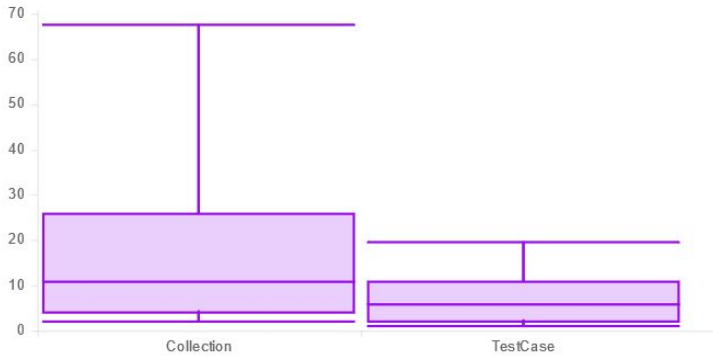
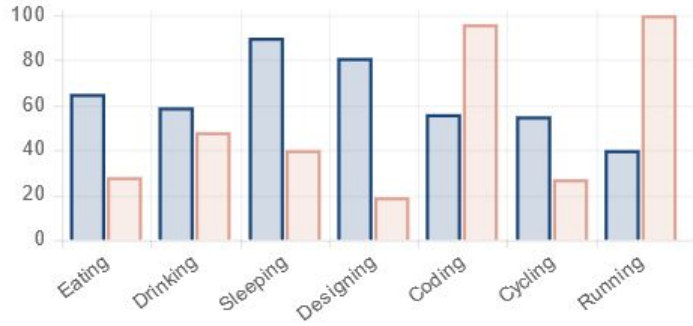


1D Charts





2D Charts





Features

- Interactions on clicks
- Style customization
- Tooltips aware of values





Repository: <https://github.com/DuneSt/ChartJs>

Script:

`Metacello new`

```
githubUser: 'DuneSt' project: 'ChartJs' commitish: 'v1.x.x' path: 'src';
```

```
baseline: 'ChartJs';
```

```
load
```

Demo: <http://localhost:8080/ChartJsDemo> / <https://demos.ferlicot.fr/ChartJsDemo>



Prism Code Displayer

Display, highlight and interact with code



Usage

```
code := (PrismComponent >> #renderContentOn:) sourceCode.
```

```
html
```

```
render:
```

```
(PrismComponent new
```

```
    sourceCode: [ code ];
```

```
    language: #smalltalk;
```

```
    yourself)
```

```
1  renderContentOn: html
2      | cb component |
3      self resetCache.
4      self ensureIdFrom: html.
5      component := html preformatted
6          class: #prismComponent;
7          class: #'line-numbers';
8          class: #'prism-copy' if: self copyOnClick;
9          "We subtract one to convert to CSS convention (counting
10         style: 'counter-reset: lineNumber ', (self startCountNum
11         id: self id.
12         cb := component storeCallback: (WAValuesCallback on: [ :inter
13         self
14         setDataForCallBack: component
15         html: html
16         scrollCb: (self defineScrollCallbackOn: component url: ht
17         clickCb: cb.
18         component
```



Features

- Strategies to:
 - Customize the CSS
 - Add anchors to intervals
- Dynamic loading
- Integrated search
- Copy option
- Menu

```
1  renderContentOn: html
2  | cb component |
3  self resetCache.
4  self ensureIdFrom: html.
5  component := html preformatted
6    class: #prismComponent;
7    class: #'line-numbers';
8    class: #'prism-copy' if: self copyOnClick;
9    "We subtract one to convert to CSS convention (counting
10   style: 'counter-reset: lineNumber' ' 1 (self startCountNu
11   id: self id.
12   cb := component storeCallback: (WAVValuesCallback on: [ :inte
13   self
14     setDataForCallBack: component
15     html: html
16     scrollCb: (self defineScrollCallbackOn: component url: h
17     clickCb: cb.
18   component
```



Repository: <https://github.com/DuneSt/PrismCodeDisplayer>

Script:

`Metacello new`

```
githubUser: 'DuneSt' project: 'PrismCodeDisplayer' commitish: 'v1.x.x' path: 'src';  
baseline: 'PrismCodeDisplayer';  
load
```

Demo: <http://localhost:8080/PrismDemo> / <https://demos.ferlicot.fr/PrismDemo>

“

Thank you!

“

Thank you!

“

Thank you!