Robotics Service Bus - Tasks #880 Implement timeline-ish formatting style

02/15/2012 10:20 AM - J. Moringen

Status:	Resolved		Start date:	02/15/2012	02/15/2012	
Priority:	Normal		Due date:			
Assignee:	J. Moringen		% Done:	100%	100% 0.00 hour	
Category:	Common Lisp Too	ols	Estimated tin	1e: 0.00 hour		
Target version:	rsb-0.7					
Description						
	<i>.</i>					
It would be cool to ha	ve a formatting style p	producing a tin	neline-like view similar to	the following:		
Scope	↓now ↓-1 s	↓-2 s ↓-3	s ↓-4 s			
/audio/card0/						
/nao/audio/all/						
/nao/odometry/						
/nao/proprioceptic	on/ ···· ··· ···		·· ···· ··			
/nao/system/batte	ry/					
/nao/system/cpun	nemory/ · ·					
/nao/system/mod	ules/ · ·		·			
/nao/system/temp	eratures/ ·		·			
/nao/vision/top/	0000∞0000]]]]∞]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]				

Associated revisions

Revision 1cefb7a5 - 02/22/2012 01:59 PM - J. Moringen

Removed support for :self in formatting/delegating-mixin.lisp

refs #873, #880

- formatting/protocol.lisp (delegate): new generic function; delegate to a sub-style of a formatting style
- formatting/delegating-mixin.lisp (delegating-mixin): the sub-styles initarg is no longer required
 - (delegating-mixin::sub-styles): added initarg
 - (shared-initialize :after delegating-mixin t): removed; special
 - initialization is no longer required

(setf style-sub-styles :around sequence delegating-mixin): removed;

special setter behavior is no longer required

(delegate t delegating-mixin t): new method; delegate to sub-style (format-event t delegating-mixin t): call `delegate' method

- formatting/event-style-compact.lisp (define-compact-style): define a method on `format-header'
- formatting/package.lisp (package :rsb.formatting): added exported symbol delegate

Revision 8d5ed391 - 03/19/2012 02:22 PM - J. Moringen

Added format-header in formatting/protocol.lisp

refs #873, #880

formatting/protocol.lisp (format-header): new generic function;
 format a header for a thing onto a formatting target

- formatting/columns-mixin.lisp (format-header columns-mixin t): use `format-header' for individual columns
- formatting/columns.lisp (basic-column): new class; superclass for column classes

(format-header basic-column t): new method; format column name as header

(define-simple-column): add superclass `basic-column'

- formatting/quantity-column.lisp (format-header quantity-column t): new method; print column name and, later, unit, if available
- formatting/package.lisp (package rsb.formatting): added exported symbols format-header and basic-column

Revision 4ef5150a - 03/19/2012 02:22 PM - J. Moringen

Added grouping-mixin in formatting/grouping-mixin.lisp refs #873, #880

- formatting/grouping-mixin.lisp: new file; contains
 `grouping-mixin' mixin class
- formatting/protocol.lisp (make-sub-style-entry): new generic function; create a sub-style entry for a style
- formatting/package.lisp (package rsb.formatting): added exported symbols make-sub-style-entry, grouping-mixin, style-key and style-test
- cl-rsb-formatting.asd (system cl-rsb-formatting): added file formatting/grouping-mixin.lisp

Revision 495cf5de - 03/22/2012 04:30 AM - J. Moringen

Added class column-constant in formatting/columns.lisp refs #873, #880

formatting/columns.lisp (column-constant): new class; emit constant value

(format-event t column-constant t): new method; emit the value

 formatting/package.lisp (package rsb.formatting): added exported symbols column-constant, column-value and column-formatter

Revision 327f4e8c - 03/28/2012 03:07 PM - J. Moringen

Updated initarg blacklist in formatting/help.lisp refs #873, #880

 formatting/help.lisp (make-style-help-string): added initargs sort-predicate and sort-key to blacklist

Revision 51cca974 - 03/28/2012 03:07 PM - J. Moringen

Improved sub-style-for in formatting/sub-style-grouping-mixin.lisp refs #873, #880

- formatting/sub-style-grouping-mixin.lisp
 - (sub-style-for sub-style-grouping-mixin t): after adding the sub-style, retry the next method instead of initiating a new call to `sub-style-for'

Revision 3bf01fdd - 04/10/2012 08:55 PM - J. Moringen

Added protocol and mixin in formatting/temporal-bounds-mixin.lisp refs #880

- formatting/types.lisp (timestamp/unix/nsec): new type; used by temporal bounds protocol (time-spec/variable): likewise (time-spec/operator): likewise (time-spec): likewise (time-spec-p): new function; helper for type `time-spec' (bounds-spec): new type; used by temporal bounds protocol formatting/protocol.lisp (lower-bound): new generic function; part of temporal bounds protocol (setf lower-bound): likewise (upper-bound): likewise (setf upper-bounds): likewise (bounds): likewise (bounds/expanded): likewise (range/expanded): likewise formatting/temporal-bounds-mixin.lisp: new file; contains `temporal-bounds-mixin' mixin class
- formatting/package.lisp (package rsb.formatting): added exported symbols timestamp/unix/nsec, time-spec, bounds-spec, lower-bound, upper-bound, bounds, bounds/expanded, range/expanded and temporal-bounds-mixin
- cl-rsb-formatting.asd (system cl-rsb-formatting): added file formatting/temporal-bounds-mixin.lisp

Revision 8996123f - 04/10/2012 08:55 PM - J. Moringen

Added collects? protocol function in formatting/protocol.lisp refs #880

- formatting/protocol.lisp (collects?): new generic function; determine whether a things collects data or formats events immediately
- formatting/periodic-printing-mixin.lisp

(collects? periodic-printing-mixin): new method; indicate that instances collect events before producing output

 formatting/quantity-column.lisp (collects? quantity-column): likewise

(format-event :around t quantity-column t): new method; delegate non-trigger events to `update!'

(format-event t quantity-column t): new method; required for dispatch; should not get called

formatting/event-style-statistics.lisp

(statistics-columns-mixin::quantities): removed; no longer needed for dispatching

(setf style-columns :after t statistics-columns-mixin): likewise (format-event :around t statistics-columns-mixin t): use `collects?' and `format-event' for dispatching

 formatting/package.lisp (package rsb.formatting): added exported symbol collects?

Revision 38882677 - 04/10/2012 08:55 PM - J. Moringen

Added timeline stuff in formatting/{,event-style-}timeline.lisp fixes #880

- formatting/util.lisp (timestamp->unix/nsecs): new function; utility function
- formatting/timeline.lisp: new file; contains a timeline column
- formatting/event-style-timeline.lisp: new file; contains two timeline-based event formatting styles
- cl-rsb-formatting.asd (system cl-rsb-formatting): added file formatting/timeline.lisp

(system connection cl-rsb-formatting-and-cl-rsb-stats): added file formatting/event-style-monitor.lisp

- CMakeLists.txt: added test cases for timeline styles

Revision e8943081 - 04/10/2012 08:55 PM - J. Moringen

Fixed deps of formatting/timeline.lisp in cl-rsb-formatting.asd refs #880

 cl-rsb-formatting.asd (system cl-rsb-formatting): removed file formatting/timeline.lisp

(system connection cl-rsb-formatting-and-cl-rsb-stats): added file formatting/timeline.lisp

History

#1 - 02/15/2012 10:23 AM - J. Wienke

Actually we have exactly this as a python gui tool ;)

#2 - 02/15/2012 10:23 AM - J. Wienke

project:rsbeventvis

#3 - 02/15/2012 11:15 AM - J. Moringen

Johannes Wienke wrote:

project:rsbeventvis

Yes, I know that project. Writing "It would be cool" is just my kind of humor.

Seriously though:

- The graphical event visualization has rather heavy dependencies (in my opinion)
- It is inconvenient to obtain another tool in order to inspect a system (in my opinion)
- In my tests, the graphical event visualization died under heavy load and produced quite some load itself
- In my tests, the graphical event visualization died on unexpected payload types
- The described formatting style could be modularly integrated into other styles (like the column-based statistics style or the scope monitor scope)

#4 - 02/15/2012 11:23 AM - J. Wienke

Sure, bugs are expected. This is a very first version and phillip will continue to work on it when he's back from holidays.

Apart from the dependencies, I am sure there are more visualization and interaction possibilities with a graphical tool. But these are not implemented right now.

#5 - 03/02/2012 07:15 PM - J. Moringen

- Target version set to rsb-0.7

#6 - 03/22/2012 04:31 AM - J. Moringen

- % Done changed from 50 to 80

#7 - 04/10/2012 08:58 PM - J. Moringen

- Status changed from In Progress to Resolved
- % Done changed from 80 to 100

Applied in changeset r3537.