Cassiopeia 2.2.2 Release Notes

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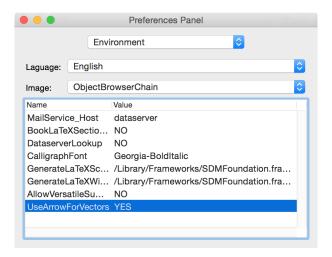
1 Dot Notation for time derivatives

The short notation for a derivative with respect to time is usually a dot accent over a letter, e.g. \dot{s} for the first derivative and \ddot{s} for the second derivative. In earlier versions of Cassiopeia time derivatives had to be written as ds/dt. As of v2.2.2 the short notation is suppoprted (for presentation only).

Use the key sequence "s Ctrl-a 1" to get \dot{s} and "s Ctrl-a 2" to get \ddot{s} . This works for vectors as well. To get

$$\dot{\vec{r}}(t) = \begin{pmatrix} R\sin(\omega t) \\ R\cos(\omega t) \\ \nu t \end{pmatrix}$$

you would have to type (in formula mode) "r Ctrl-a v Ctrl-a 1 (t) ...". Note: Cassiopeia uses the little vector arrow to represent vectors when the UseArrow-ForVectors setting is set to YES (Cassiopeia Preferences panel).



If you prefer the bold font alternative set this setting to NO.

$$\dot{\mathbf{r}}(t) = \begin{pmatrix} R \sin(\omega t) \\ R \cos(\omega t) \\ vt \end{pmatrix}$$

2 Function arguments

Functions arguments can also be vectors now. Type "A Ctrl-a v Ctrl-l outer (r Ctrl-a v , t) ... " to get

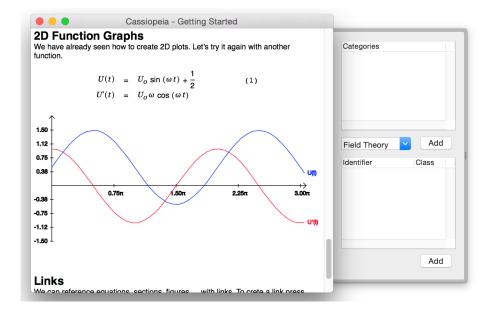
$$\vec{A}_{outer}\left(\vec{r},t\right)=\left(egin{array}{c} A_x \ A_y \ A_z \end{array}
ight)$$

3 New Accents

A couple of accents have been added to the "Vectors, Matrices and Accents" pane of the palette, e.g. "b Ctrl-a B" for \bar{b} , or "b Ctrl-a t" for \tilde{b} .

4 Adding Categories

In earlier versions document categories had to be dragged from Core - Document Categories to the Context Drawer (Command-Shift-C) of the document.



They can now be selected in a combobox and assigned by clicking on the Add button.