Wikimath

0.1 writing wikimath expressions

Here we define a string of text.

```
> x <- "V_c /F (L * h^-1) ~theta_1 *(WT/70)^theta_2"
```

0.2 extracting and supressing elements

Now we try x as a column name for a data frame.

0.3 identifying related parameters

What theta is primarily associated with this equation?

```
> tos(x)
[1] "THETA1"
> text2decimal(tos(x))
[1] 1
```

0.4 rendering in a table

Next we try it in a latex table.

```
> library(Hmisc)
> tex <- capture.output(latex(
+ file='',
+ title='',
+ where="!htbp",
+ rowname=NULL,
+ colheads='model',
+ data.frame(x=wiki2latex(noUnits(x)))
+ ))
> writeLines(tex)
```

model	=
$V_{\rm c}/{\rm F} \sim \theta_1 \cdot ({\rm WT}/70)^{\theta_2}$	-

0.5 rendering in a figure

Finally we try it in a figure.

```
> library(lattice)
> print(densityplot(
+ ~cl,
+ data.frame(cl=rnorm(1000,mean=1)),
+ xlab=parse(text=wiki2plotmath(noUnits(x)))
+ ))
> file.remove('Rplots.pdf')
```

[1] TRUE

