

# Ryacas L<sup>A</sup>T<sub>E</sub>X Expression in Knitr

Set up chunk:

```
library(Ryacas)
longrun_cost <- expression((c * mu) + h * ( lambda / (mu-lambda)))
fmt <- sprintf("TeXForm(%s)", longrun_cost)
eqn_string <- sprintf("$%s$", yacas(fmt, retclass = "unquote"))
```

The next few chunks will show the different ways that the Ryacas expression can be rendered.

## Chunk 1

A chunk with `results = "markup"`.

```
eqn_string
## [1] "$$c \mu + \frac{h \lambda}{\mu - \lambda}$$"
```

## Chunk 2

A chunk with `results = "asis"`.

```
cat(eqn_string)
```

$$c\mu + \frac{h\lambda}{\mu - \lambda}$$

```
print(sessionInfo(), local = FALSE)
## R version 3.5.0 (2018-04-23)
## Platform: x86_64-pc-linux-gnu (64-bit)
## Running under: Debian GNU/Linux 9 (stretch)
##
## Matrix products: default
## BLAS: /usr/lib/openblas-base/libblas.so.3
## LAPACK: /usr/lib/libopenblas-r0.2.19.so
##
## attached base packages:
## [1] stats      graphics  grDevices  utils      datasets  methods   base
##
## other attached packages:
## [1] Ryacas_0.3-1  rmarkdown_1.9  nvimcom_0.9-64  colorout_1.2-0
##
## loaded via a namespace (and not attached):
## [1] Rcpp_0.12.17  XML_3.98-1.11  digest_0.6.15  rprojroot_1.3-2
## [5] backports_1.1.2 magrittr_1.5    evaluate_0.10.1 stringi_1.2.2
## [9] tools_3.5.0   stringr_1.3.1  yaml_2.1.19    compiler_3.5.0
## [13] htmltools_0.3.6 knitr_1.20
```