texessai

st.

2023-01-03

this script works, packages included in yaml header
TODO not working: figure captions, inclusion of external .tex configuration

```
knitr::opts_chunk$set(echo = TRUE)
options(tinytex.verbose = TRUE,engine="lualatex")


library(tinytex)
```

```
## Warning: package 'tinytex' was built under R version 4.1.2
```

```
#library(knitr)
library(tikzDevice)
check_installed("forest")
```

```
## [1] TRUE
```

```
check_installed("tikz")
```

```
## [1] FALSE
```

```
#tinytex::install_tinytex(bundle = 'TinyTeX-2')


library(rmarkdown)
```

```
## Warning: package 'rmarkdown' was built under R version 4.1.2
```

```
latex_dependency("forest")
```

```
## $name
## [1] "forest"
##
## $options
## NULL
##
## $extra_lines
## NULL
##
## attr(,"class")
## [1] "latex_dependency"
```

```
latex_dependency("tikz")
```

```
## $name
## [1] "tikz"
##
```

```
## $options
## NULL
##
## $extra_lines
## NULL
##
## attr(,"class")
## [1] "latex_dependency"
```

```
#tinytex::tlmgr()
#tinytex::tlmgr("install forest")
#tinytex::tlmgr("install tikz")
# tlmgr pinning add pgf-development "*"
# $ tlmgr update --self --all
# $ tlmgr install pgf --reinstall
# tinytex::tlmgr ("repository add http://pgf-tikz.github.io/pgf/tlnet pgf-development") #>>>> NOT WORKI
#tinytex::tlmgr ("repository add https://ftp.rrzn.uni-hannover.de/pub/mirror/tex-archive/systems/texliv

# tinytex::tlmgr ('pinning add pgf-development "*"')
# tinytex::tlmgr ('update --self --all')
# tinytex::tlmgr ('install pgf --reinstall')
#tlmgr_search('/pdftex')
#tlmgr
#tlmgr_install('calendar')
# tlmgr_update()
# tlmgr(c('info', '--list', '--only-installed', '--data', 'name'))

pandoc_include_args(before_body  = "calibration.tex")
```

```
## [1] "--include-before-body" "calibration.tex"
```

```
#pandoc_latex_engine_args("lualatex")
#tinytex::lualatex()
#latexmk(engine = "l")
#getwd()
```

–>

tree essai

```
# #td<-tempdir()
# td<-getwd()
# tf<-file.path(td,'example.tex')
# oldwd<-getwd()
# setwd(td)
#
# tikz(tf,standAlone=T)
# plot(1)
# dev.off()
#
# tools::texi2dvi(tf,pdf=T)
# system(paste(getOption('pdfviewer'),file.path(td,'example1.pdf')))
# setwd(oldwd)
```

$$latex \begin{array}{cc} \text{A} & \text{B} \\ \text{A} & \text{B} \end{array}$$

```
model <- lm(mpg~.,mtcars)
 coef1 <- coef(model)[[1]]
 coef2 <- coef(model)[[2]]
```

$$latex \hat{Y} = 12.3033742 + -0.1114405 \cdot Length$$

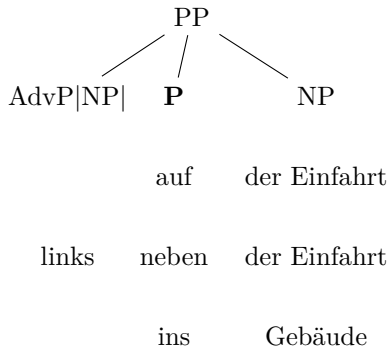
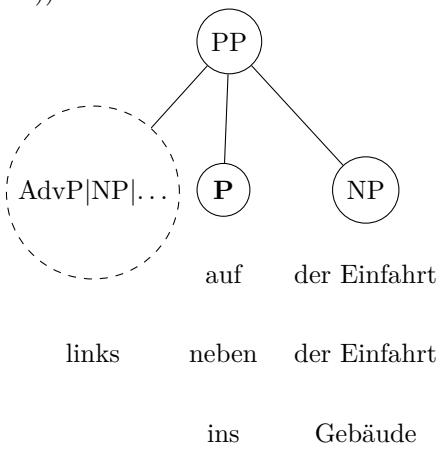


Figure 1: fenced forest

Schema 1 (Präpositionalphrase (PP))**.**



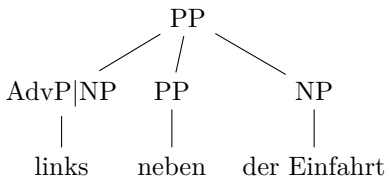
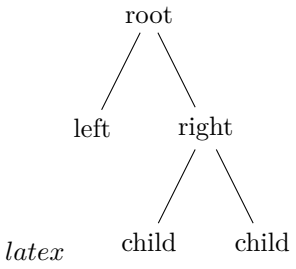


Figure 2: fenced forest

wald/bäume usw.

another baum



latex

baum fenced

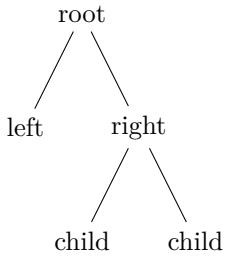
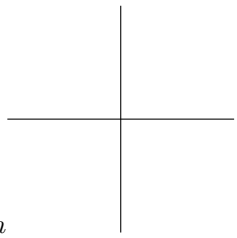


Figure 3: A picture



latexWeareworkingon

R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see http://rmarkdown.rstudio.com.

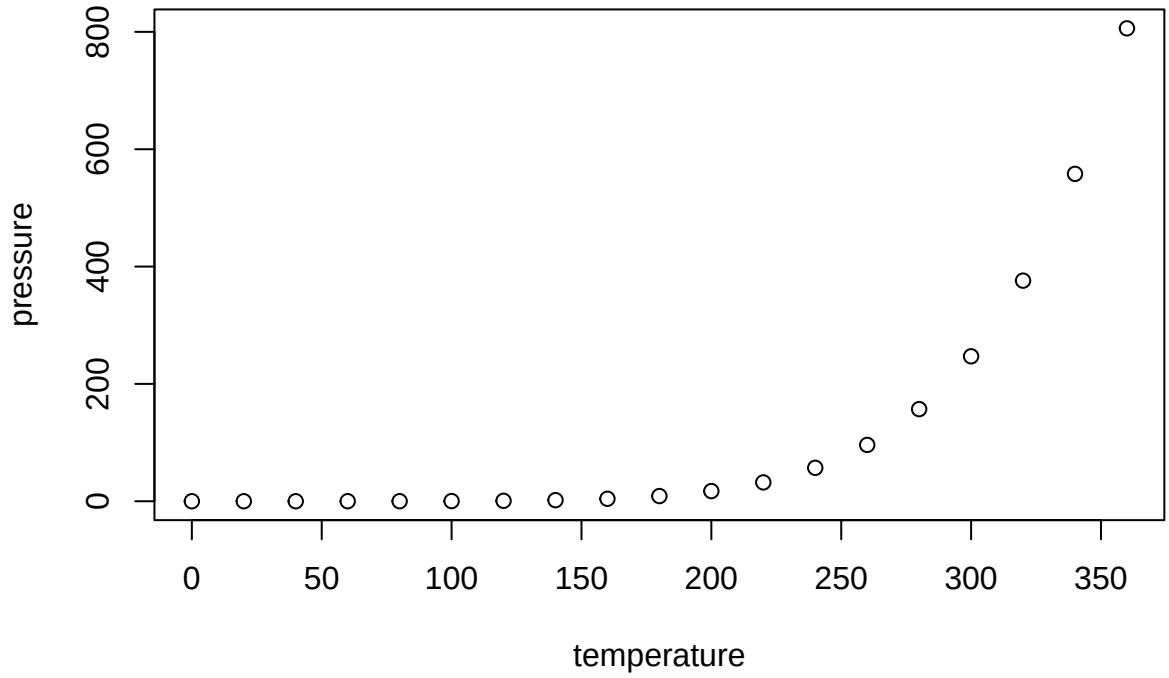
When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
summary(cars)
```

```
##      speed           dist
##  Min.   : 4.0   Min.   :  2.00
##  1st Qu.:12.0   1st Qu.: 26.00
##  Median :15.0   Median : 36.00
##  Mean   :15.4   Mean   : 42.98
##  3rd Qu.:19.0   3rd Qu.: 56.00
##  Max.   :25.0   Max.   :120.00
```

Including Plots

You can also embed plots, for example:



Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.