Quarto LaTeX

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2025-02-23 plotly Rmarkdown 2024 PDF plotly Quarto PDF R TeXLive

```
##
#install.packages("plotly")
#install.packages("mvtnorm")
library(plotly)
library(mvtnorm)
library(webshot2)
x \leftarrow seq(150, 190, length.out = 100)
# 150-190 100
y \leftarrow seq(50, 80, length.out = 100)
# 50-80 100
grid <- expand.grid(X = x, Y = y)
# x y
mu <- c(170, 65)
              170 cm 65 kg
sigma \leftarrow matrix(c(100, 20, 20, 25), nrow = 2)
           100 25
                            20
z <- dmvnorm(as.matrix(grid), mean = mu, sigma = sigma)</pre>
```

双元正态分布的三维概率密度图

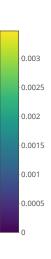


Figure 1: Binary normal distribution

0.1 1

PDF

0.2 2

PDF HTML R webshot webshot2 Quarto HTML

install.packages("webshot2")

library(webshot2)

install.packages("webshot")

webshot PhantomJS

webshot::install_phantomjs()

0.3 3 prefer-html: true

HTML PDF prefer-html: true HTML PDF

• .qmd YAML

format: pdf: toc: true # {yaml}

0.4 4 HTML

PDF HTML HTML

- $\bullet \qquad \qquad R \quad \text{plotly htmlwidgets} \qquad \qquad \text{ggplot2}$
- {r, results='asis'} HTML PDF

```
# HTML
library(plotly)
plot_ly(data, x = ~x, y = ~y, type = "scatter")

# PDF
library(ggplot2)
ggplot(data, aes(x = x, y = y)) + geom_point()
```

0.5 Quarto TeXLive

terminal TeX Live

{bash eval = FALSE} TeX Live infrastructure update in progress ... TeX Live infrastructure update in progress ... Detailed command logging to "C:\texlive\2024\temp\update self update: texlive.infra (70084 -> 73495) texlive.infra.windows (69813 -> 71447) tlperl.windows (69939 -> 71515) Infrastructure update finished successfully. You may now close this window.

```
Quarto TeX Live preview .qmd terminal TeX Live cmd
```

```
tlmgr update --self --all
```

Windows

```
C:\Users\asus>tlmgr update --self --all Locale 'English_United States.936' is unsupported, and may crash the interpreter.
```

```
tlmgr update --self --all \, TeX Live Locale 'English_United States.936' is unsupported, and may crash the interpreter \, TeX Live tlmgr locale Windows 936 GBK tlmgr UTF-8
```

0.5.1 1

1.

• Win + R intl.cpl ""

• "" -> " " "

2.

• 936 GBK TeX Live tlmgr

0.5.2 2 tlmgr

tlmgr

1.

Win + R intl.cpl
" " -> " "
English (United States)

"Beta: UTF-8 " " "

2.

cmd

tlmgr update --self --all

3.

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0.5.3 3

0.5.4 4

TeX Live

quarto preview

1.

TeX

tlmgr

tlmgr info --list installed

Quarto

2.

0.5.5

- TeX Live TeX LiveTeX Live tug.org/texlive
- PowerShell WSL cmd PowerShell Windows Subsystem for Linux (WSL) tlmgr

0.5.6

- Step 3 LC_ALL=en_US.UTF-8
- Step 2

1 cmd

```
C:\Users\asus>tlmgr update --self --all
tlmgr.pl: package repository https://mirrors.hust.edu.cn/CTAN/systems/texlive/tlnet (not ver
tlmgr.pl: saving backups to C:/texlive/2024/tlpkg/backups
tlmgr.pl: no self-updates for tlmgr available
tlmgr.pl: skipping forcibly removed package: extractbb
tlmgr.pl: skipping forcibly removed package: extractbb.windows
[ 1/764, ??:??/??:??] update: ebgaramond [8780k] (66604 -> 71069) ... done
[ 2/764, 00:16/42:39] update: ebgaramond-maths [567k] (52168 -> 74174) ... done
```

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