

esRI!
!

Salzburg

2024





Salzburg

2024

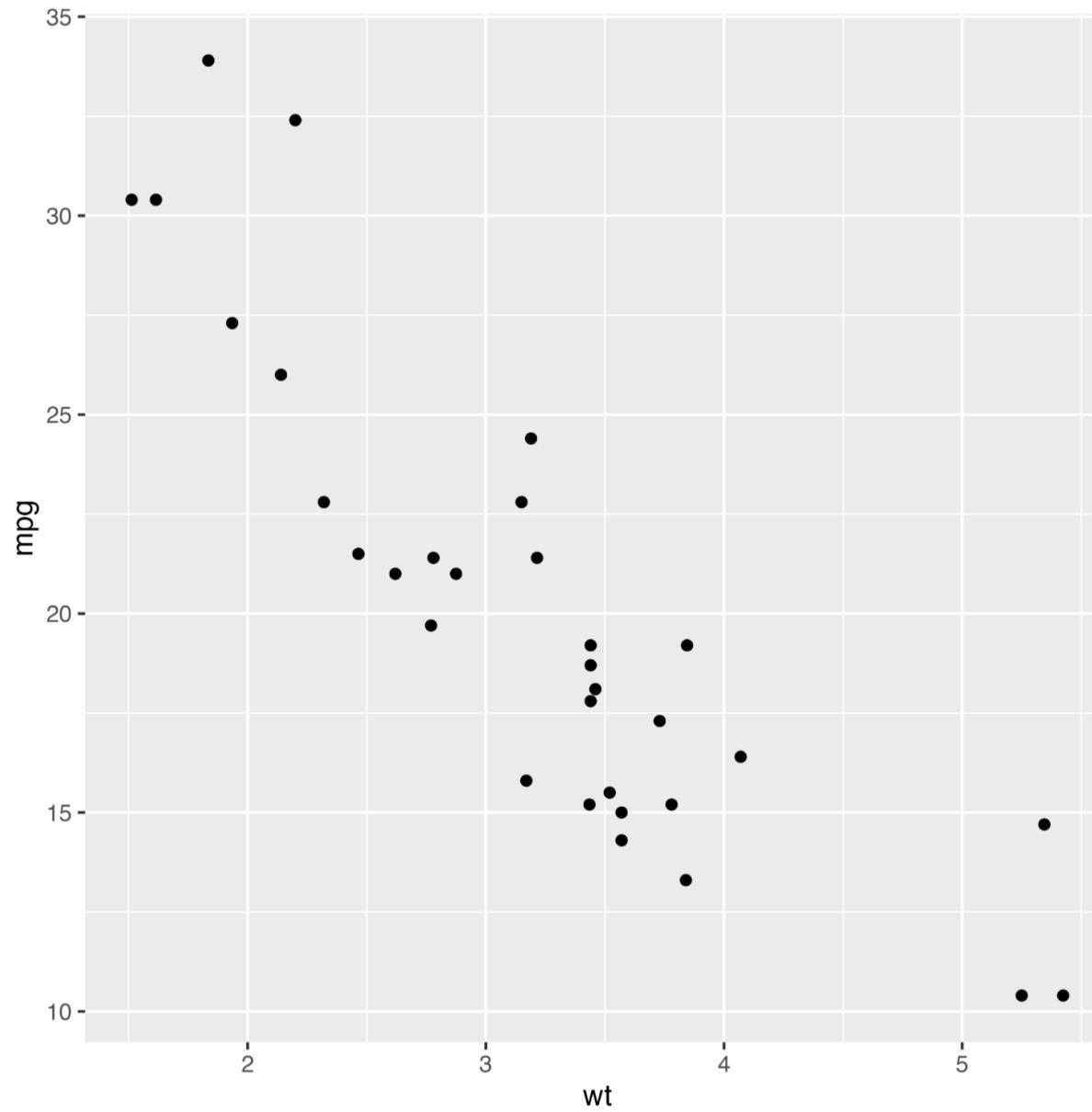
Manage & Modify ggplot Figures Using ggfigdone

Wenjie SUN



No conflicts of interest to disclose.

Figure revision: version1

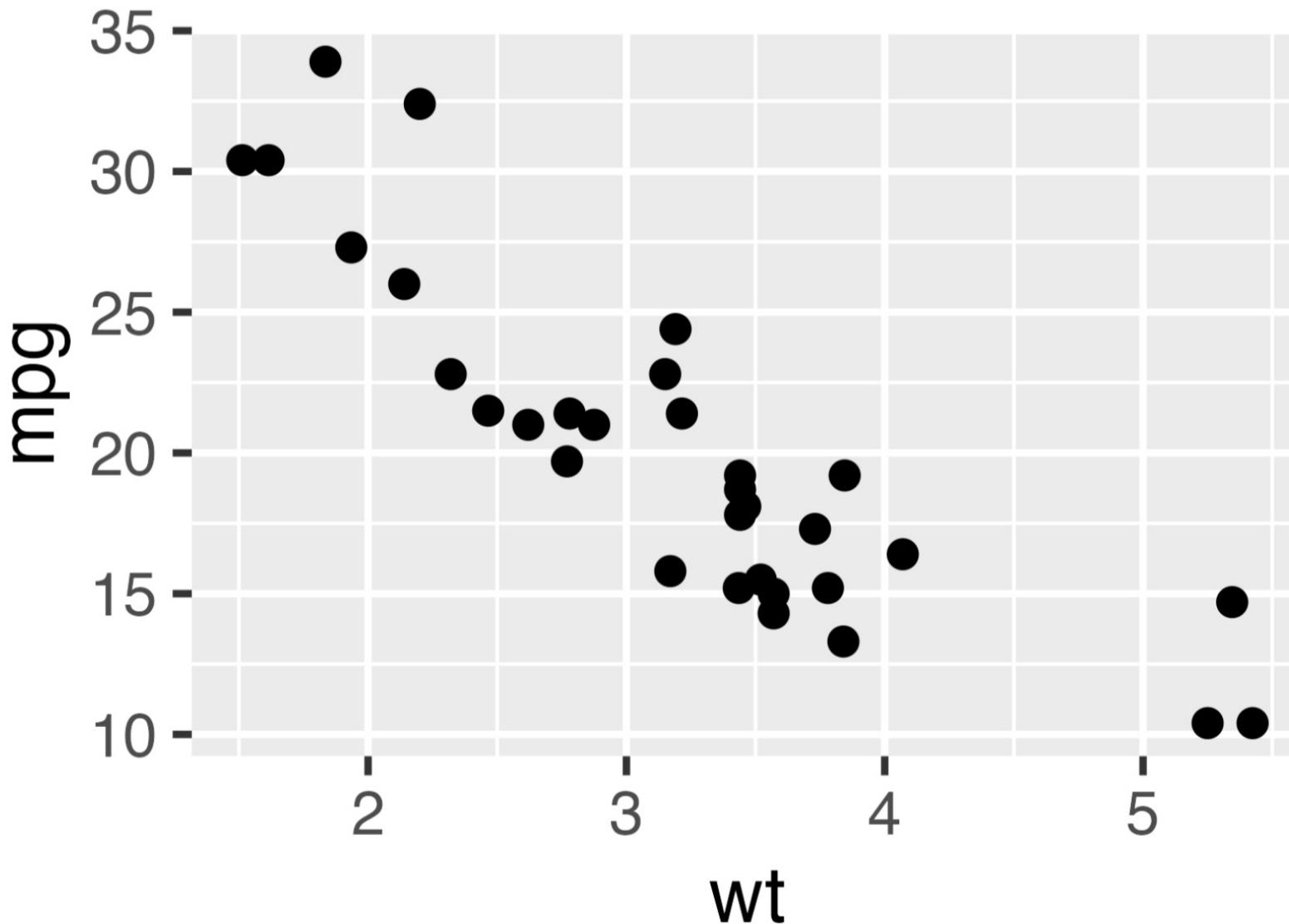


Rerun the code



A FEW
MOMENTS LATER

Figure revision: version2



Supervisors ask to remove the grid

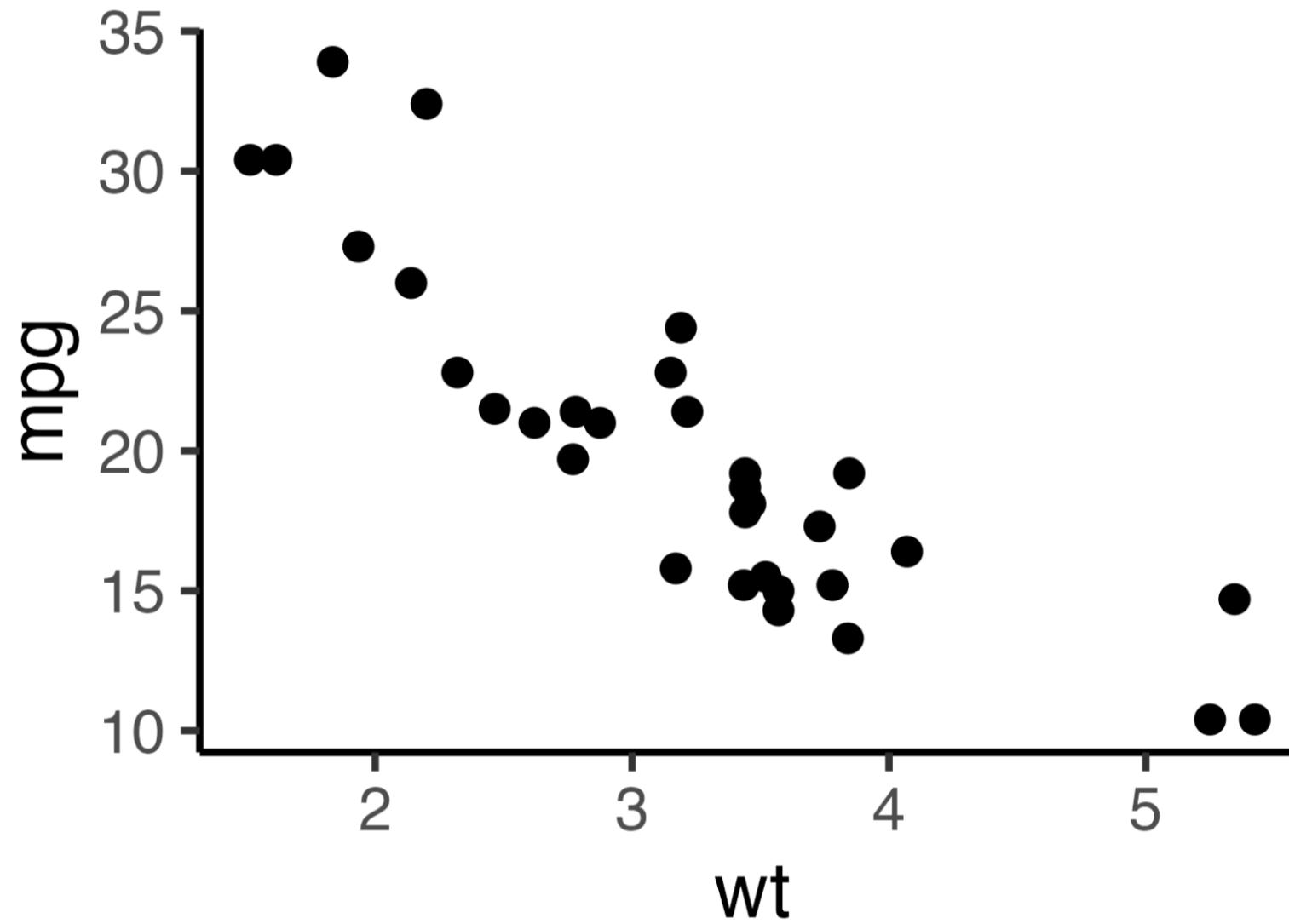


Rerun the code



A FEW
MOMENTS LATER

Figure revision: version3



Paper accepted, journal needs to change the font style to
Times New Roman

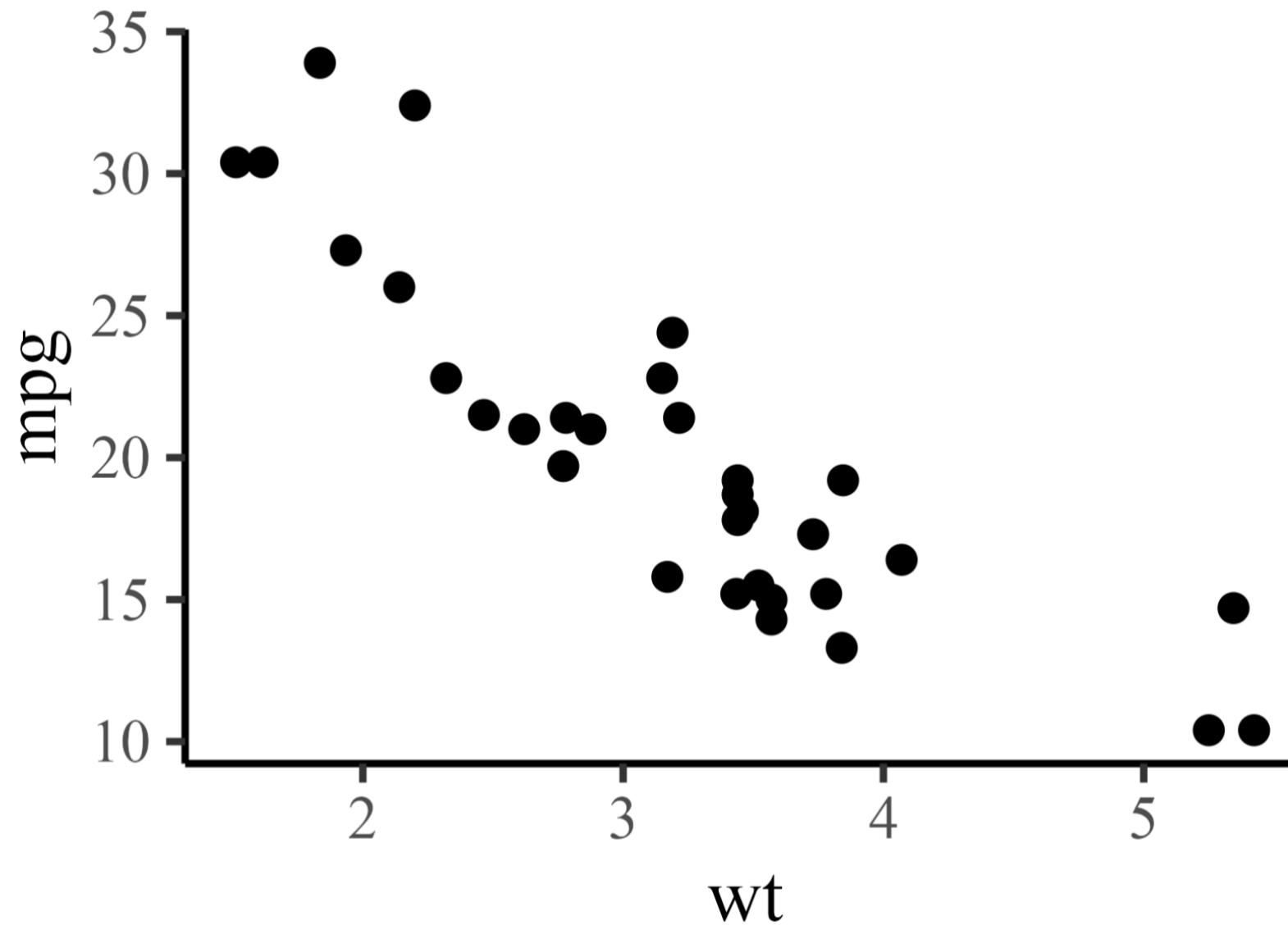


Rerun the code



A FEW
MOMENTS LATER

Figure revision: version4



Install alpha version of ggfigdone

```
# install.packages("remotes")
remotes::install_github("wenjie1991/ggfigdone")
```

Planning to submit to CRAN in summer.

Add ggplot figures into ggfigdone database

```
library(ggfigdone)

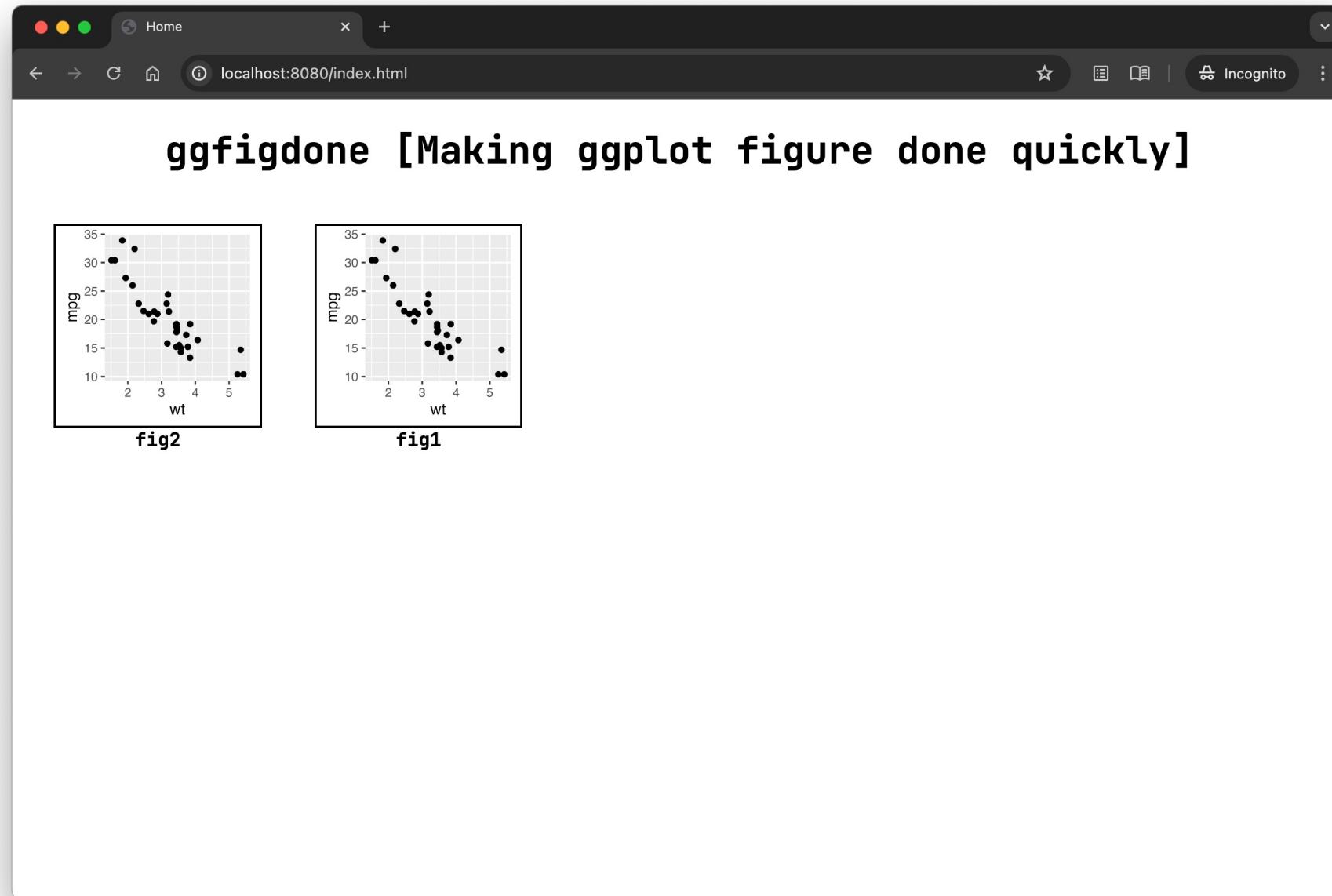
## Initial a database
fo = fd_init("./tmp/fd_dir")

## Draw a ggplot figure
g = ggplot(mtcars, aes(x=wt, y=mpg)) + geom_point()

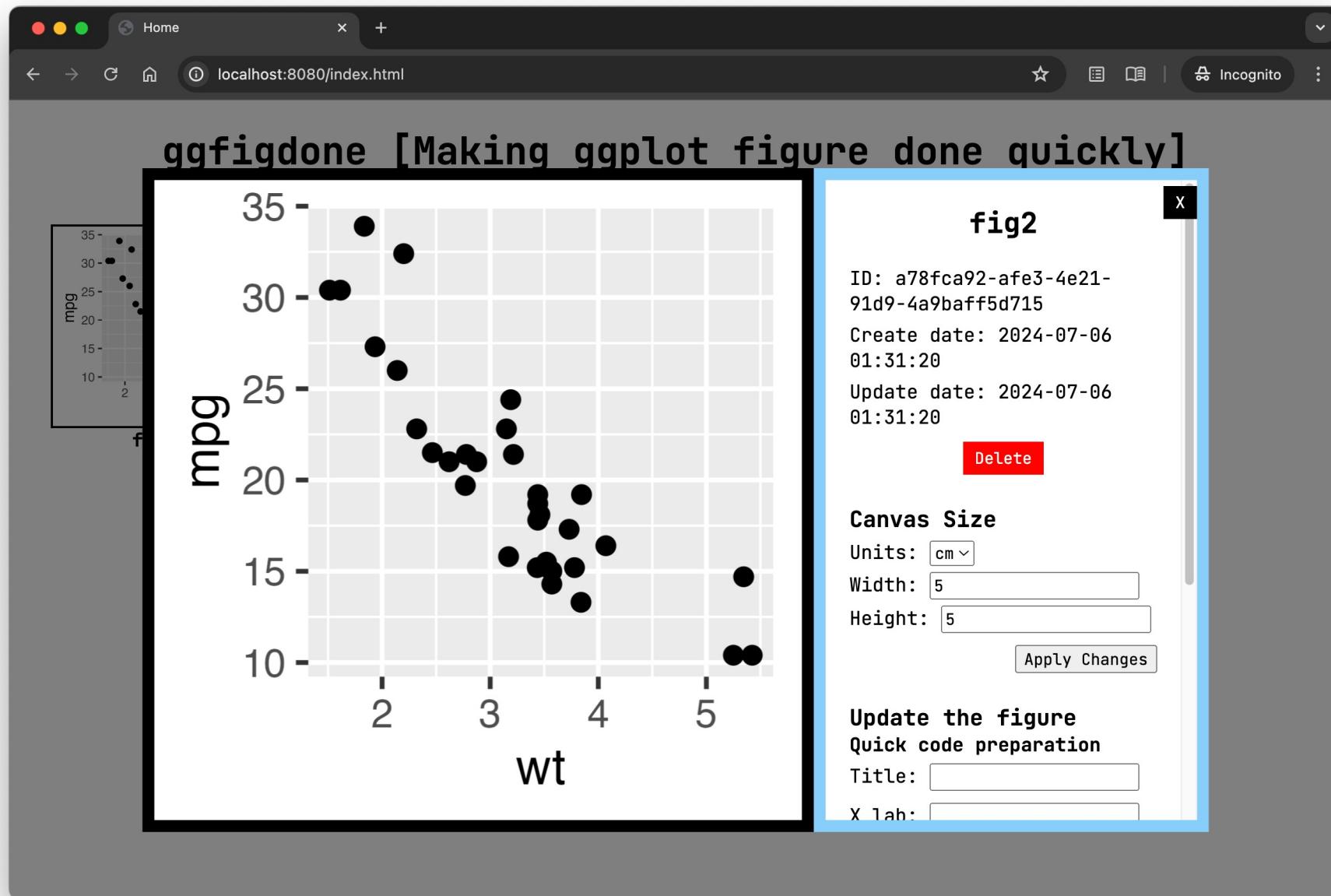
## Add the figure to the database
fd_add(g = g, name = "fig1", fo)

## Add the same figure with a different name
fd_add(g = g, name = "fig2", fo)
```

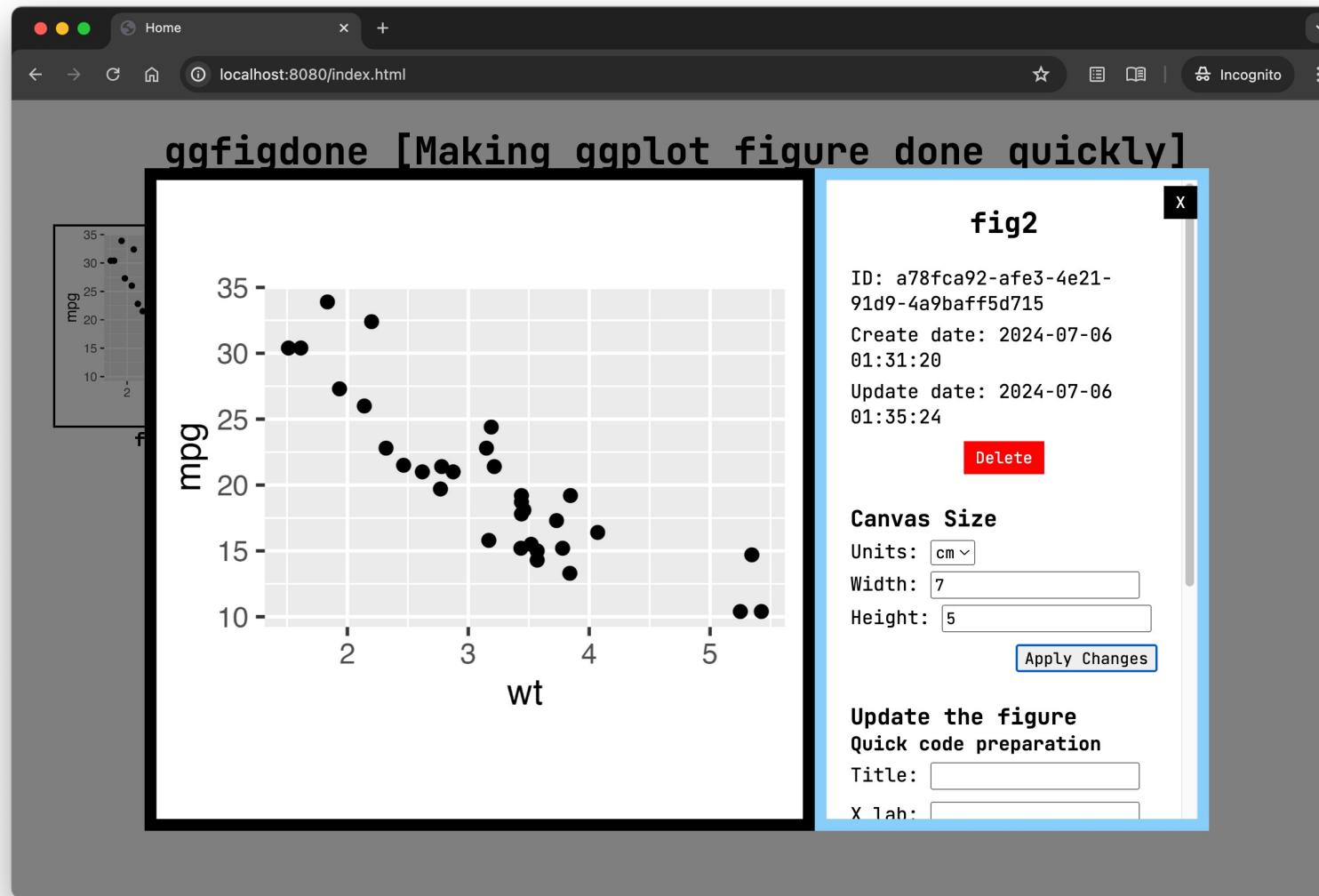
Open webpage to manage the figures



Choose a figure for editing



Update canvas of the figure



Canvas Size

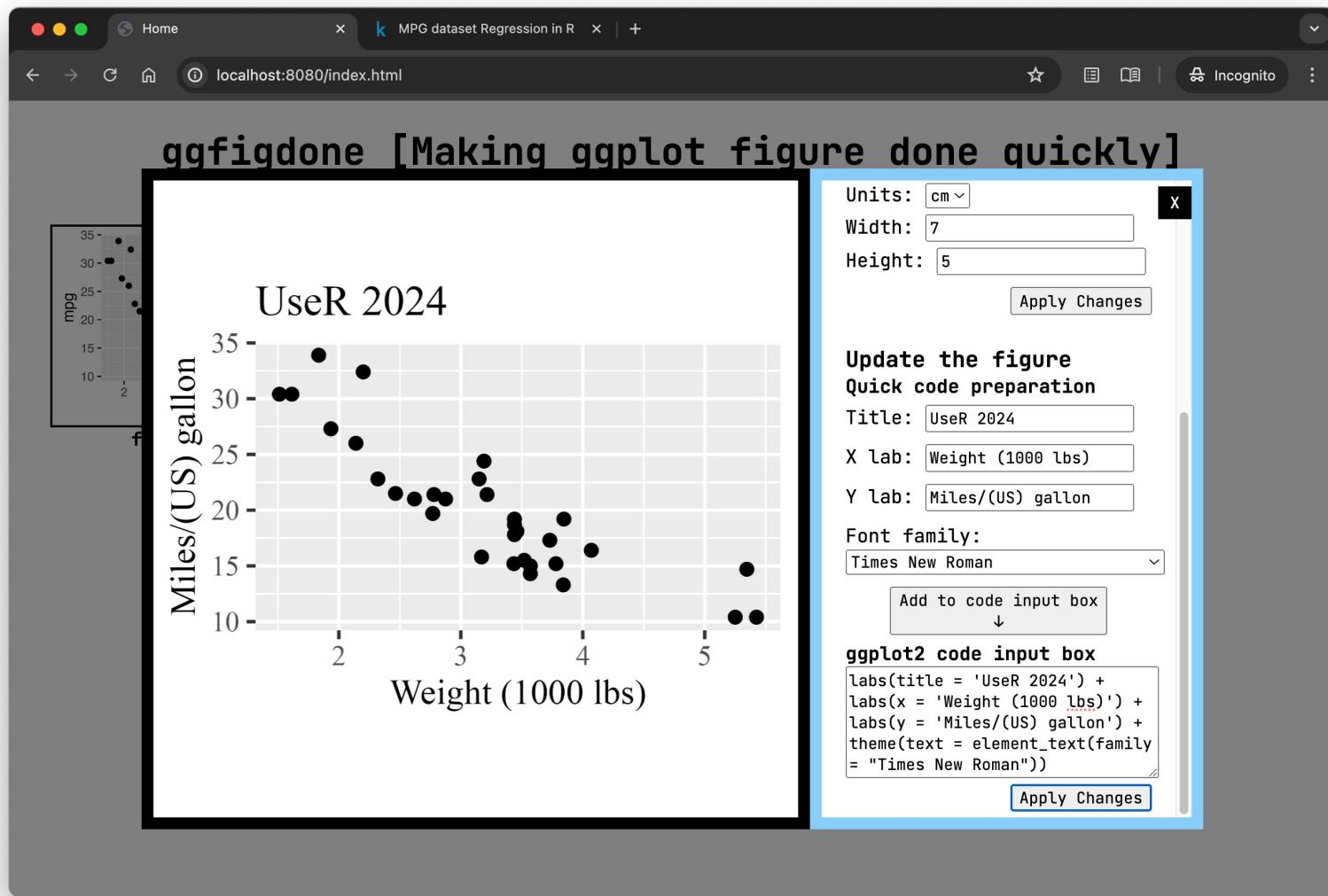
Units:

Width:

Height:

Apply Changes

Update the figure



Update the figure Quick code preparation

Title: UseR 2024

X lab: Weight (1000 lbs)

Y lab: Miles/(US) gallon

Font family:
Times New Roman

Add to code input box
↓

ggplot2 code input box

```
labs(title = 'UseR 2024') +  
  labs(x = 'Weight (1000 lbs)') +  
  labs(y = 'Miles/(US) gallon') +  
  theme(text = element_text(family = "Times New Roman"))
```

Apply Changes

Using filelock to control the ensure data integrity and consistency

```
library(ggfigdone)

## Initial a database
fo = fd_init("./tmp/fd_dir")

## Draw a ggplot figure
g = ggplot(mtcars, aes(x=wt, y=mpg)) + geom_point()

## Add the figure to the database
fd_add(g = g, name = "fig1", fo)

## Add the same figure with a different name
fd_add(g = g, name = "fig2", fo)
```

```
library(ggfigdone)

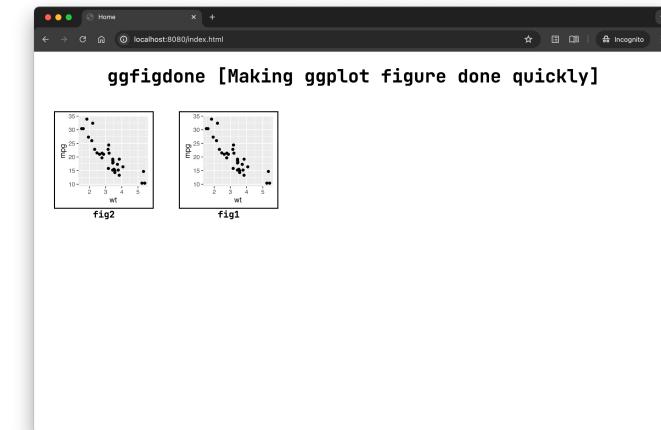
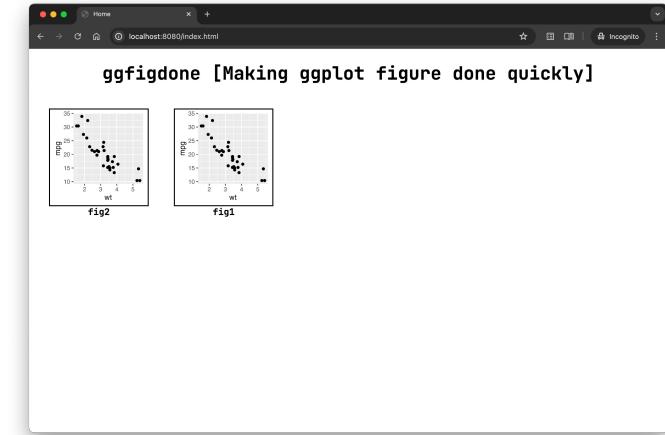
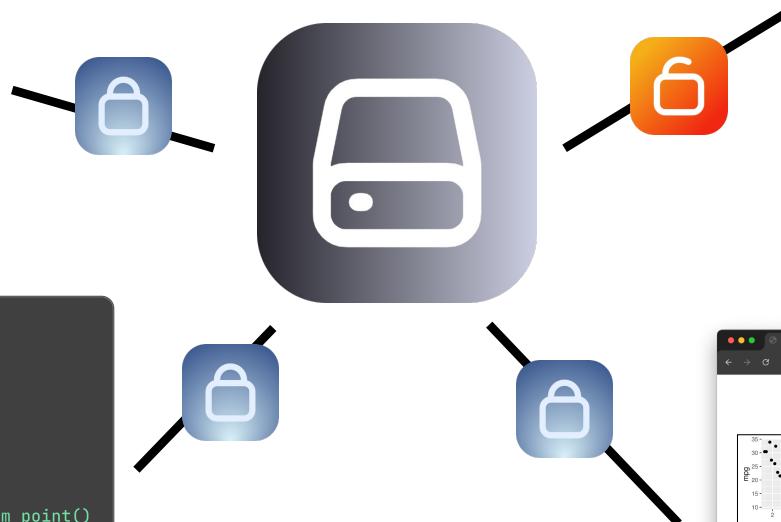
## Initial a database
fo = fd_init("./tmp/fd_dir")

## Draw a ggplot figure
g = ggplot(mtcars, aes(x=wt, y=mpg)) + geom_point()

## Add the figure to the database
fd_add(g = g, name = "fig1", fo)

## Add the same figure with a different name
fd_add(g = g, name = "fig2", fo)
```

ggfigdone database



Updating plan



(high priority)

- Updating figure names in the gallery
- Downloading figures in various formats (PDF, SVG, PNG, JPEG)
- Automatic updates on the website without manual refresh
- Returning modification history
- Modifying modification history
- A popup icon in the GUI when updating figures



X @sun_sunwjie