R

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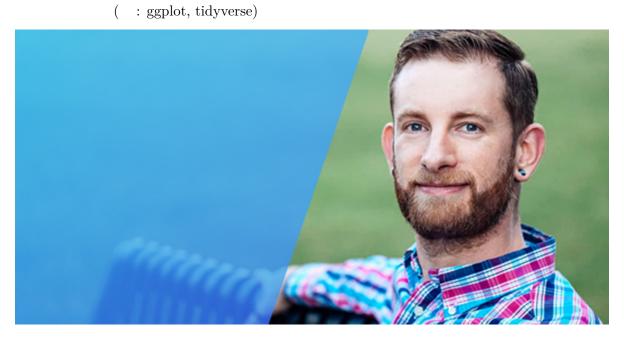   .

                                       .

      tidyverse   R   .

R

                    :   (Robert Gentleman)   (Ross Ihaka)

                    (: ggplot, tidyverse)

1   (0   )

    ,

- install.packages("   ")
- library(   )

1.1

Back end   tidyverse   ,   .

8   . (1 2 ,

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2 2

1. R   ,   (1)

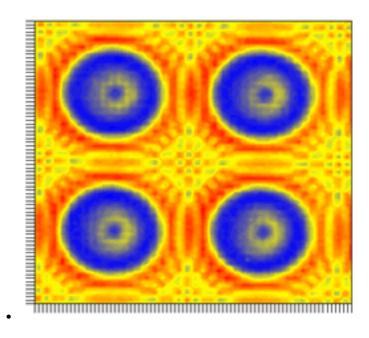   https://dplyr.tidyverse.org/articles/dplyr.html

2.   dplyr (2)

    https://m-clark.github.io/data-processing-and-visualization/intro.html

3. (3)

4. ggplot (4)

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2d, 3d

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6. 2 (6)

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