R

Yufei Zhong

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Contents
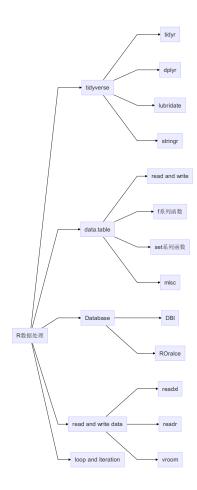
Chapter 1

R   R   ETL   R shiny web

R   tidyverse   data.table   co

```mermaid
graph LR
    A[R数据处理] --> B[tidyverse]
    A --> C[data.table]
    A --> D[Database]
    A --> E[read and write data]
    A --> F[loop and iteration]

    B --> B1[tidyr]
    B --> B2[dplyr]
    B --> B3[lubridate]
    B --> B4[stringr]

    C --> C1[read and write]
    C --> C2[f系列函数]
    C --> C3[set系列函数]
    C --> C4[misc]

    D --> D1[DBI]
    D --> D2[ROralce]

    E --> E1[readxl]
    E --> E2[readr]
    E --> E3[vroom]
```

\begin{center}

R   ,

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    :

 : https://www.yuque.com/zyufei

```
#
sessionInfo()
#> R version 4.0.5 (2021-03-31)
#> Platform: x86_64-w64-mingw32/x64 (64-bit)
#> Running under: Windows 10 x64 (build 19041)
#>
#> Matrix products: default
#>
#> locale:
#> [1] LC_COLLATE=Chinese (Simplified)_China.936
#> [2] LC_CTYPE=Chinese (Simplified)_China.936
#> [3] LC_MONETARY=Chinese (Simplified)_China.936
#> [4] LC_NUMERIC=C
#> [5] LC_TIME=Chinese (Simplified)_China.936
#>
#> attached base packages:
#> [1] stats     graphics  grDevices utils     datasets  methods   base
#>
#> other attached packages:
#> [1] DiagrammeR_1.0.6.1
#>
#> loaded via a namespace (and not attached):
#>  [1] bookdown_0.22    ps_1.6.0          visNetwork_2.0.9  digest_0.6.27
#>  [5] R6_2.5.0         jsonlite_1.7.2    magrittr_2.0.1    evaluate_0.14
#>  [9] rlang_0.4.11     stringi_1.6.1     rstudioapi_0.13   callr_3.7.0
#> [13] rmarkdown_2.8    webshot_0.5.2     RColorBrewer_1.1-2 tools_4.0.5
#> [17] stringr_1.4.0    htmlwidgets_1.5.3 glue_1.4.2        processx_3.5.2
#> [21] xfun_0.22        yaml_2.2.1        compiler_4.0.5    htmltools_0.5.1.1
#> [25] knitr_1.33
```

Chapter 2

R   R

Chapter 3

data.table

data.table　　　　R　　　　　　,　　　　　　　　　　python julia

data.table　　　　tidyverse　　"　　"　　　　　　"　　"　　　　　"　"　　　　　　　　"　"　　　　　　　　R

　　data.table　　　　Excle　　　Excle　　　　　　　　　　data.table　　data.table　　　　　　tidyverse

　Python　　　　　ing　python

　data.table　　　:

https://cran.r-project.org/web/packages/data.table/vignettes/datatable-intro.html

data.table

-
-
- API
-

3.1

　　data.table　　　　data.table

1.

　　the Installation wiki

```r
install.packages("data.table")
# latest development version:
data.table::update.dev.pkg()
```