

Contents

1 R

R

1.1

OS Windows Download R-4.x.x for Windows (x)

<https://cran.r-project.org/bin/windows/base/>

1.2

- - Next
 - OK
 -
- Message translation R

```
# https://cell-innovation.nig.ac.jp/SurfWiki/R_errormes_lang.html
Sys.getenv("LANGUAGE") #
#
Sys.setenv(LANGUAGE="en") #
Sys.setenv(LANGUAGE="jp") #
```

-
- Yes
- (MDI / SDI)
- SDI MDI 1 Window () SDI Window
- (Plain text / HTML help)
- Plain text Plain text HTML help (GoogleChrome)
-
- () OK

1.3

2 ggplot2

2.1 R

- base(graphics)
- lattice
- grid
- ggplot2

2.2 ggplot2

ggplot2 tidy data

2.3 ggplot2

1 plot facet

magrittr %\$% %T%

ggplot2

ggpubr

2.4 ggplot2

iris vegan dave tidy data

gather() spread() pivot_longer() pivot_wider() Hadley

aesthetics

geom_point() geom_bar() aes() colour group size

2.5 facet

for subset dplyr::filter

group VS facet

2.6 ggsave

- png PDF
PDF png
-

2.7 (windows)

-cario?

2.8 theme

-
- theme_bw()

2.9 shiny

R reactive