

Intro to R and Shiny

Intro to R

How to make text fancy:

- Italics:
`*Hello World*`
Hello World
- Bold:
`**Hello World**`
Hello World
- Different Heading:
 - Heading 1 (big):
`* # Hello World`
 - Heading 2 (small):
`* ## Hello World`
 - Heading 1 (smaller):
`* ### Hello World`

Lists

- item 1
- item 2
- item 3
 - item 3a
 - item 3b
 - * item 3ba
 - * item 3bb

Tables

First you create the headings of the table and then section it off, and then add info like normal

```
H1 | H2
---- | ----
T1 | T2
T3 | T4
```

H1	H2
T1	T2
T3	T4

Using Scripts

To make a fancy outline around commands use:

```
"{r}" "
```

- This is how to add a title to a Script. (use command `paste0`)

```
paste0("Hello World")
```

```
## [1] "Hello World"
```

- This is how we can summarize a dataset called. (use command `summary()`)

```
summary(cars)
```

```
##      speed      dist
##  Min.   : 4.0    Min.   :  2.00
##  1st Qu.:12.0    1st Qu.: 26.00
##  Median :15.0    Median : 36.00
##  Mean   :15.4    Mean    : 42.98
##  3rd Qu.:19.0    3rd Qu.: 56.00
##  Max.   :25.0    Max.    :120.00
```

- This is how to figure out how many rows there are in the dataset. There are 50 rows in cars. (use command `nrow()`)

```
nrow(cars)
```

```
## [1] 50
```

Shiny

Shiny can be used to create Web Apps Basic App:

* First you activate the library shiny * Then you create a UI with `ui <- fluidPage()` * Write smth in the UI such as a title with `titlePanel()` * Create a server with `server <- function(input, output){}` * lastly run the app with `shinyApp(ui, server)`

```
library(shiny)
```

```
ui <- fluidPage(
  titlePanel("JGD")
)
```

```
server <- function(input, output){
}
```

```
shinyApp(ui, server)
```