DATA MANIPULATION WITH DPLYR

summarise

summarise

Group	dose 1	dose 2	Sum
A	3	3	6
A	4	5	9
B	3	1	4
B	1	3	4
C	1	3	4
C	2	2	4

n	min	mean	max
6	4	5.2	9

summarise


```
summarise(df, sum = sum(A),
              avg = mean(B),
              var = var(B))
```

A	B	C
105	6	20
108	3	18
144	3	7
132	5	8

sum	avg	var
489	4.25	44.92

```
summarise(df, sum = sum(A),
              avg = mean(B),
              var = var(B))
```

min
mean
sum
var
IQR
sd
length
max
median

first
last
nth
n
n_distinct

DATA MANIPULATION WITH DPLYR

Let's practice!

DATA MANIPULATION WITH DPLYR

pipes


A
B
C
105
6
20
108
3
18
144
3
7
132
5
8
summarise
sum
avg
var
489
4.25
44.92

```
a1 <- select(a, X, Y, Z)
a2 <- filter(a1, X > Y)
a3 <- mutate(a2, Q = X + Y + Z)
a4 <- summarise(a3, all = sum(Q))
```

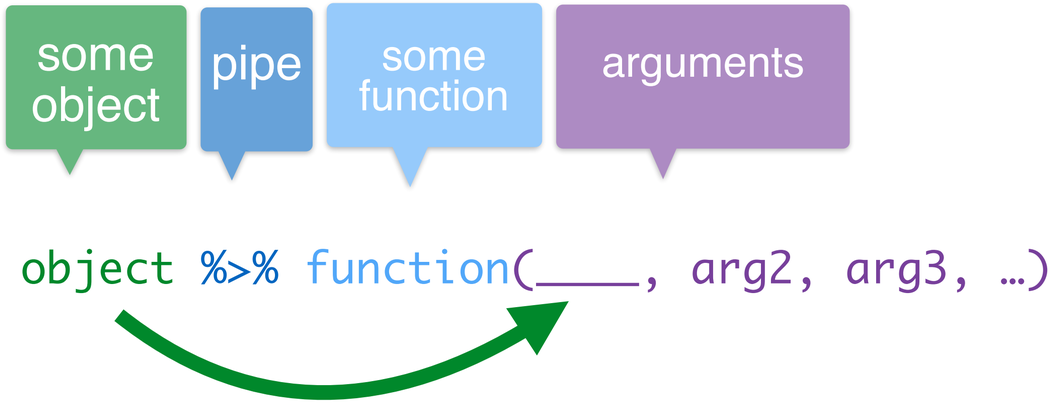
```
a1 <- select(a, X, Y, Z)
a2 <- filter(a1, X > Y)
a3 <- mutate(a2, Q = X + Y + Z)
a4 <- summarise(a3, all = sum(Q))
```

```
summarise(
    mutate(
        filter(
            select(a, X, Y, Z),
          X > Y),
      Q = X + Y + Z),
  all = sum(Q))
)
```

%>%

magrittr

Stefan Bache


some object
pipe
some function
arguments
object %>% function(____, arg2, arg3, …)

```
object %>% function(arg2, arg3, …)
```

```
summarise(
    mutate(
        filter(
            select(a, X, Y, Z),
          X > Y),
      Q = X + Y + Z),
  all = sum(Q))
)
```

```
a %>%
  select(X, Y, Z) %>%
  filter(X > Y) %>%
  mutate(Q = X + Y + Z) %>%
  summarise(all = sum(Q))
```

DATA MANIPULATION WITH DPLYR

Let's practice!