



DATA MANIPULATION WITH DPLYR

select

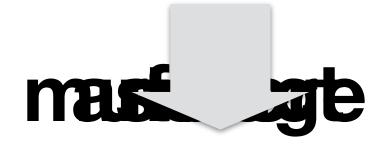


R

select
filter
arrange
mutate
summarize



Group	dose 1	dose 2	Sum
Α	3	3	6
Α	4	5	9
В	3	1	4
В	2	3	4
С	1	3	4
С	23	2	4



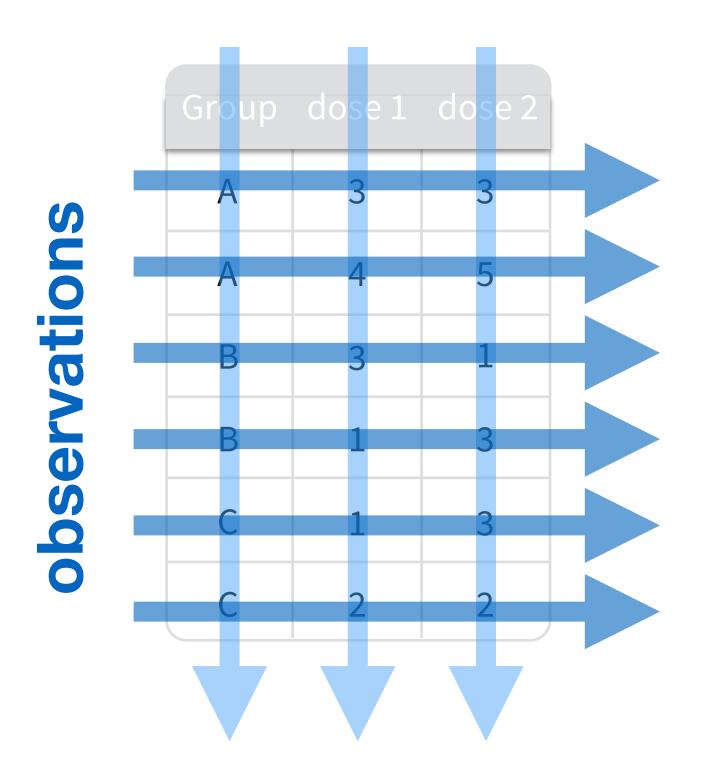
n	min	mean	max
6	4	5.2	9

summarise





variables





```
Data Manipulation with dplyr
```

```
select
filter
              variables
arrange
mutate
           observations
summarize
               groups
```





tidydata



R

Year ActualElapsedTime

Month AirTime

DayofMonth ArrDelay

DayofWeek DepDelay

DepTime Origin
Dest

ArrTime Distance

UniqueCarrier TaxiIn

FlightNum TaxiOut

TailNum Cancelled

CancellationCode

Diverted







select(df, Group, Sum)

Group	dose 1	dose 2	Sum
Α	3	3	6
Α	4	5	9
В	3	1	4
В	1	3	4
С	1	3	4
С	2	2	4









DATA MANIPULATION WITH DPLYR

Let's practice!





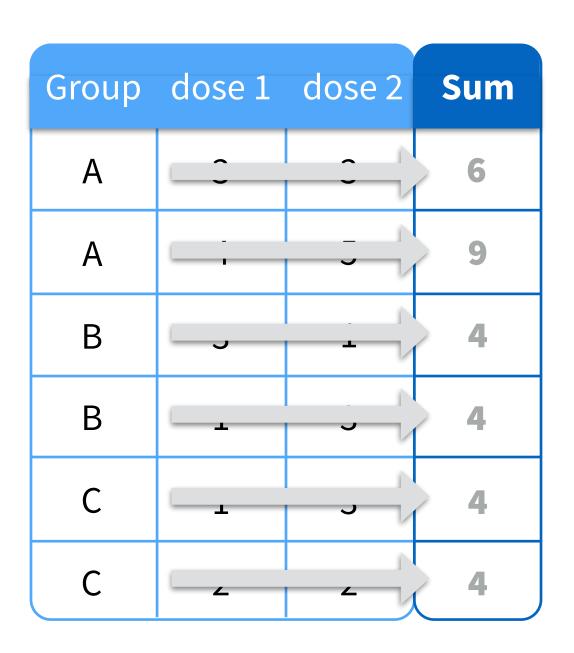
mutate



mutate



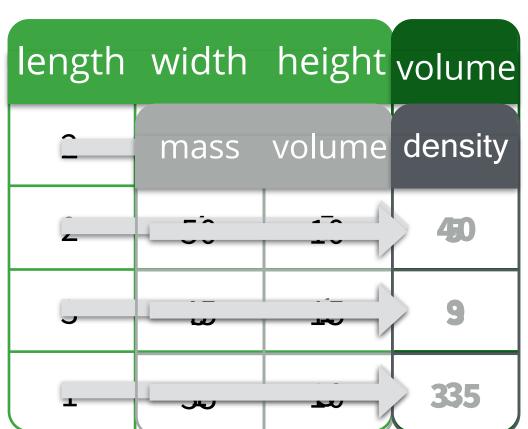




mutate



length x width x height = volume
mass / volume = density









Year	ArrDelay	DepDelay	loss
2011	10	0	-10
2011	9		-10
2011	-8	-8	0
2011	3	3	0
2011	3	5	-8
2011	<u>7</u>	-1	-6

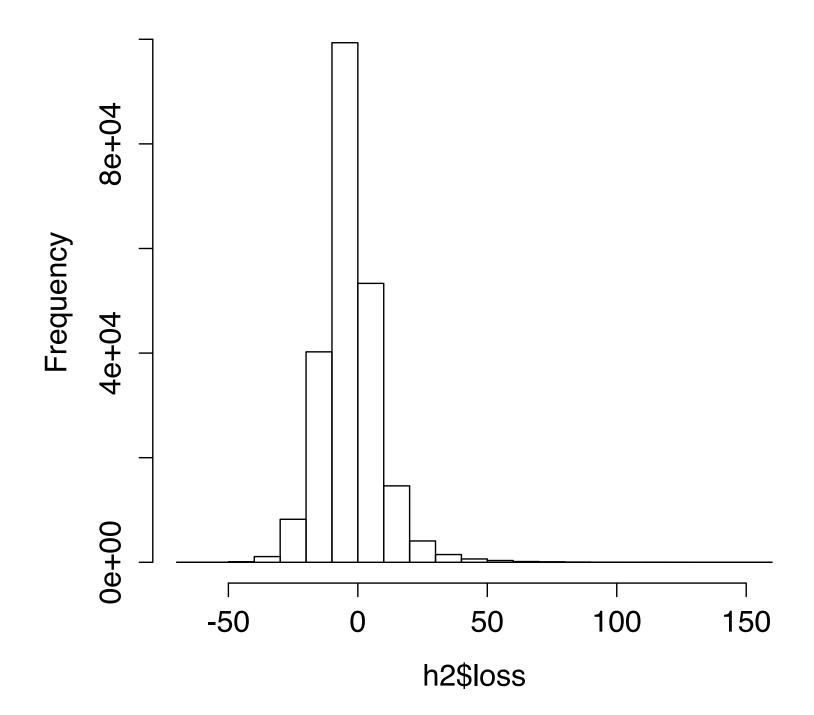


```
> mean(h2$loss, na.rm = TRUE)
          [1] -2.32
```



> hist(h2\$loss)

Histogram of h2\$loss











DATA MANIPULATION WITH DPLYR

Let's practice!