

LAST WEEK

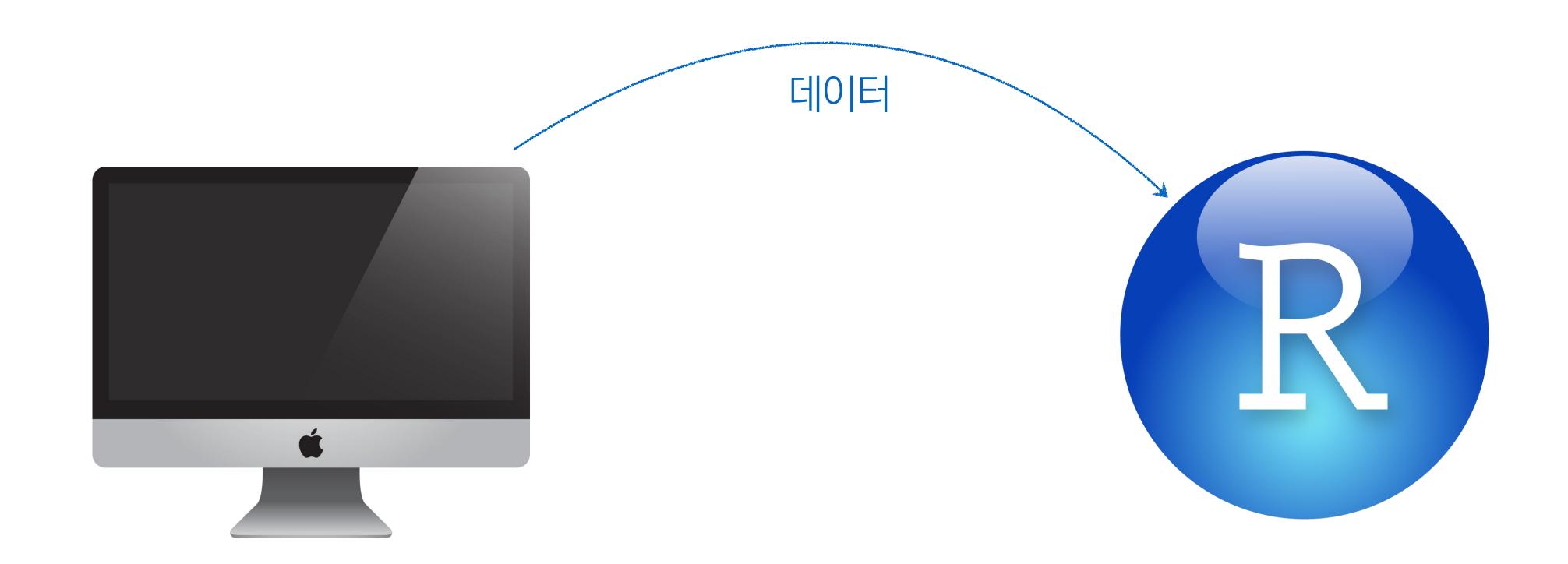
LAST WEEK

RStudio 사용법

시각화 맛보기

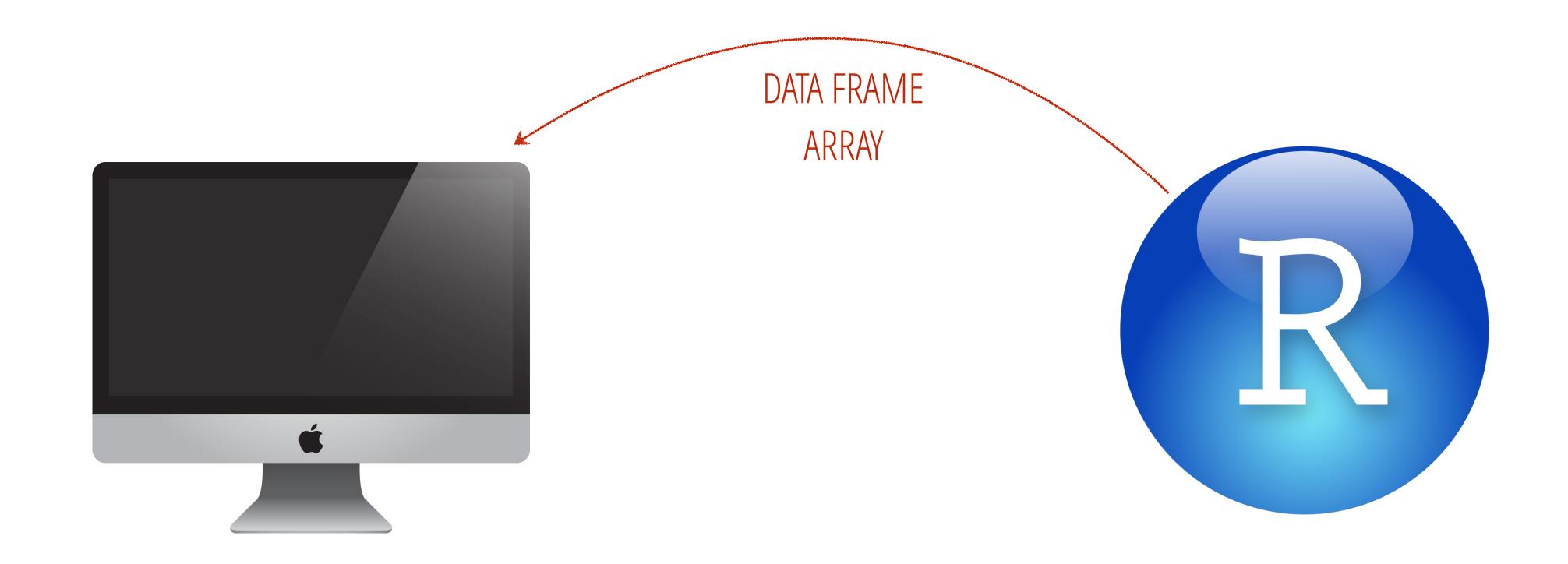
DATA IMPORT & EXPORT

DATA IMPORT



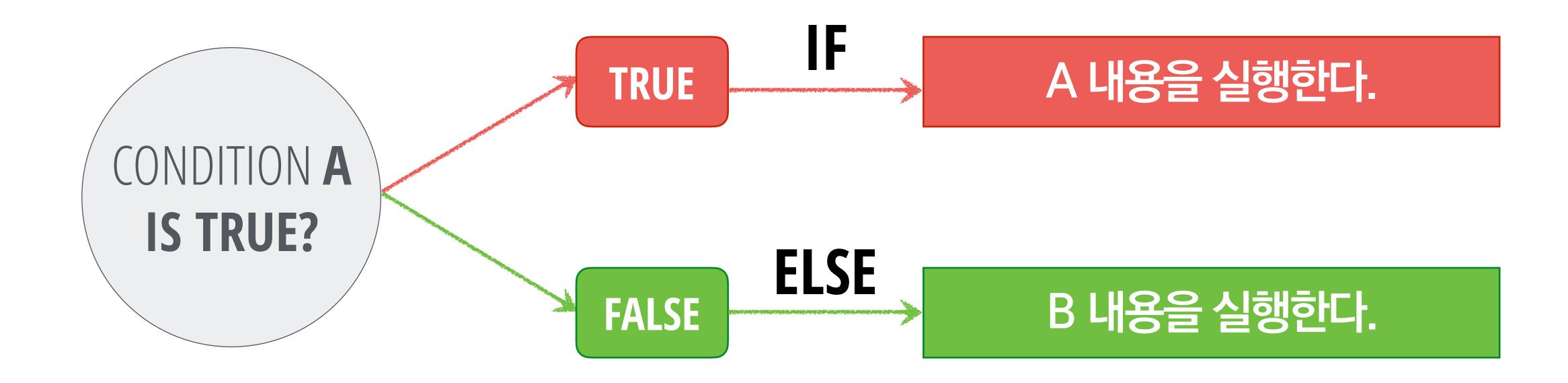
read.csv("파일 경로", stringsAsFactors = FALSE)

DATA EXPORT



write.csv(데이터 변수 이름, "파일 경로", row.names = FALSE)

CONTROL STATEMENT



```
if(조건){
 실행할 내용 A
} else {
 실행할 내용 B
}
```

ifelse(조건, 내용 A, 내용 B)

여러 가지의 경우의 수?

```
if(조건 1){
    실행할 내용 A
} else if(조건 2) {
    실행할 내용 B
} else if(조건 3) {
    실행할 내용 C
} else {
    실행할 내용 D
```

LOOP

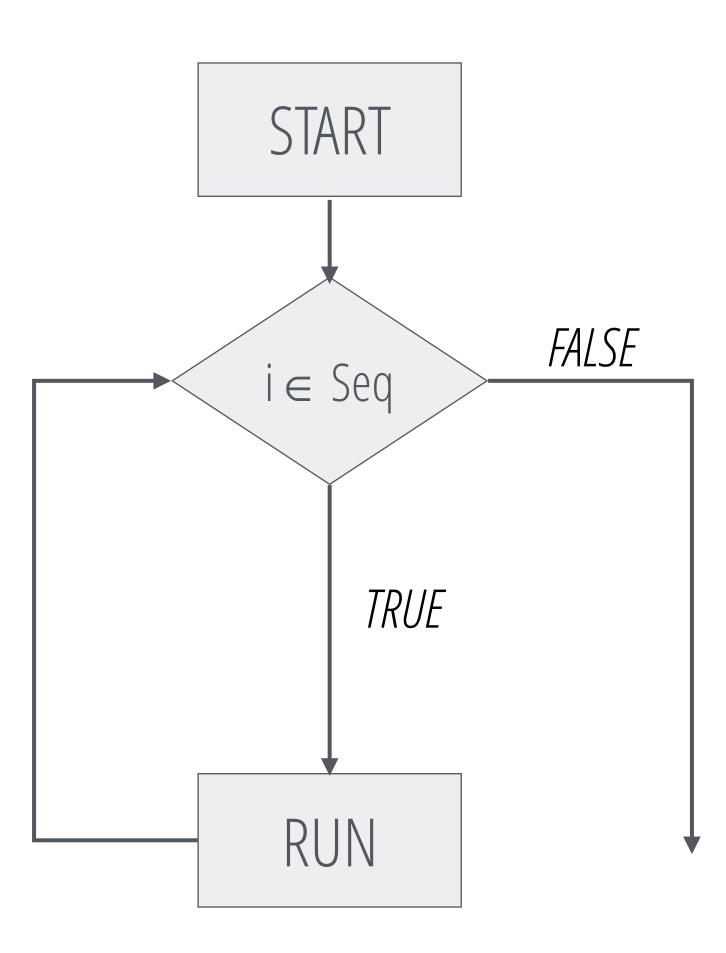
LOOP

반복작업을

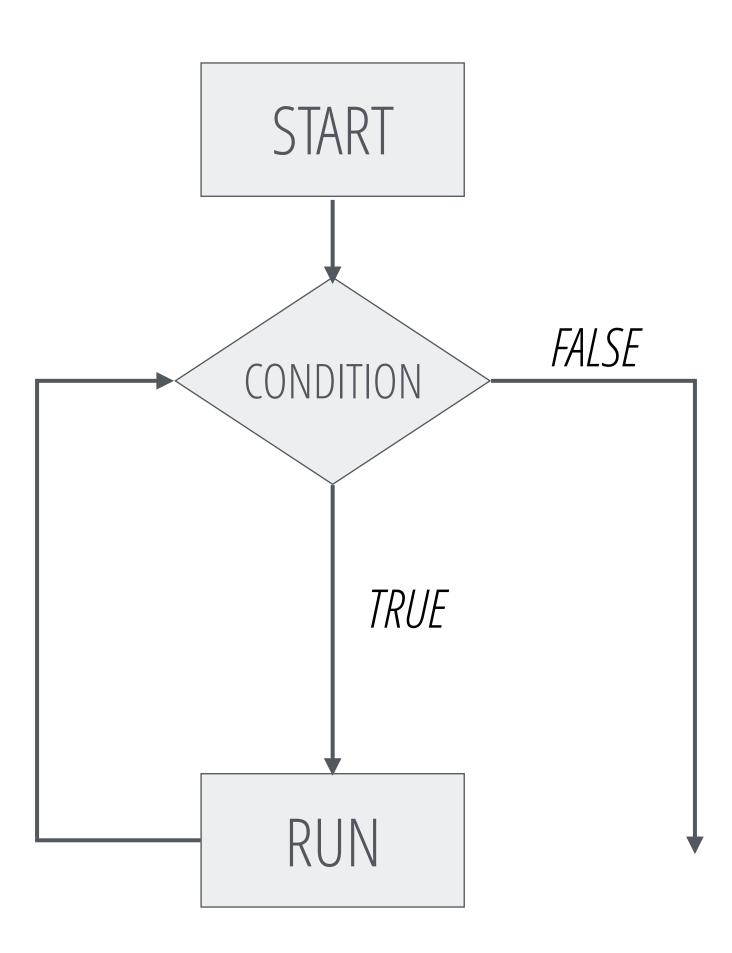
간단하게

몇 줄로 작성하자

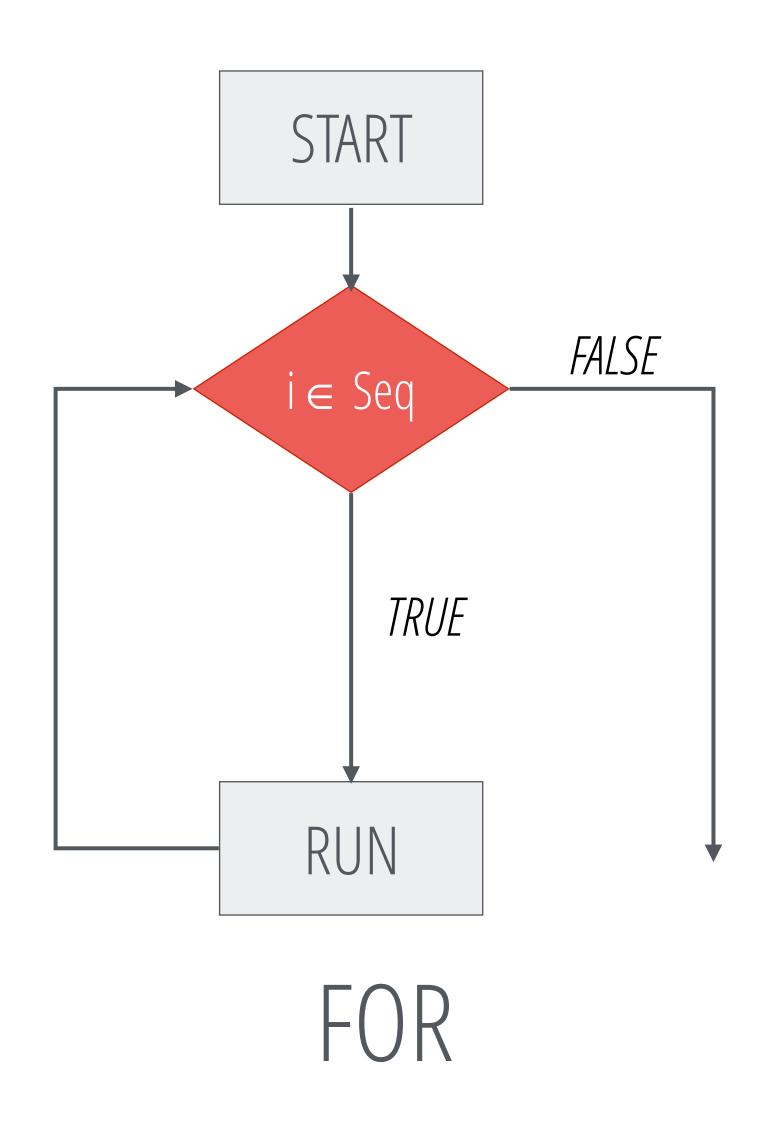
FOR LOOP

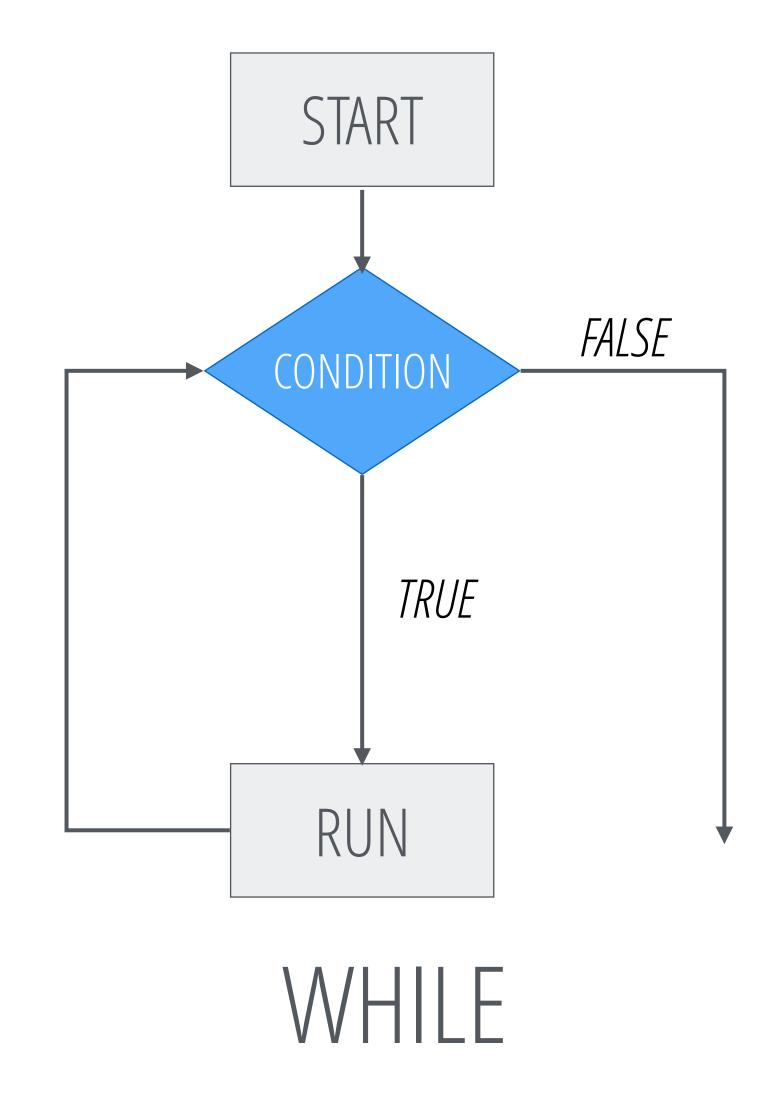


WHILE LOOP



WHAT IS THE DIFFERENCE?





DATA MANIPULATION 1

DATA MANIPULATION?

manipulation

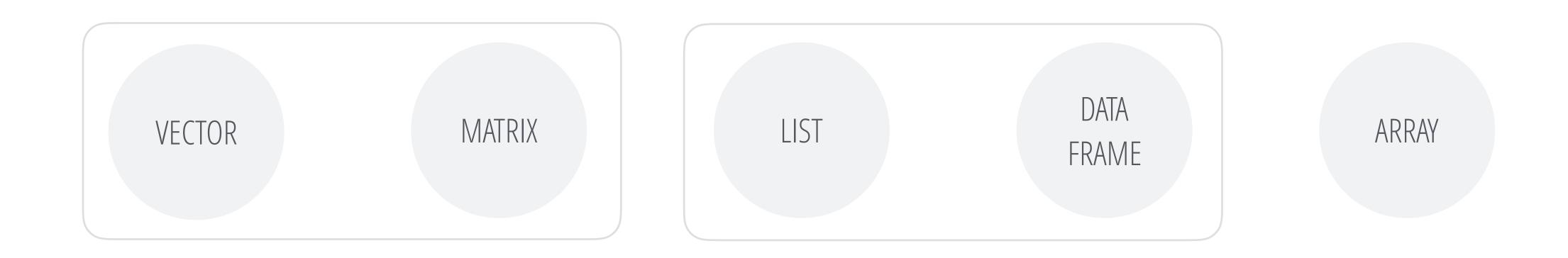
[mənipjuléisən]

NOUN 조작, 속임수

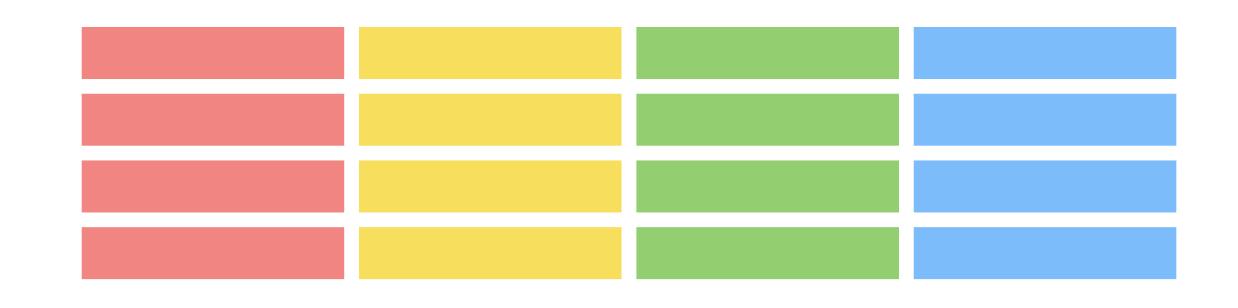
IT

원활한 문제 해결을 위하여 데이터나 그 형식을 변화시키거나 나열시키는 작업.

DATA STRUCTURE



BASIC PROCESS

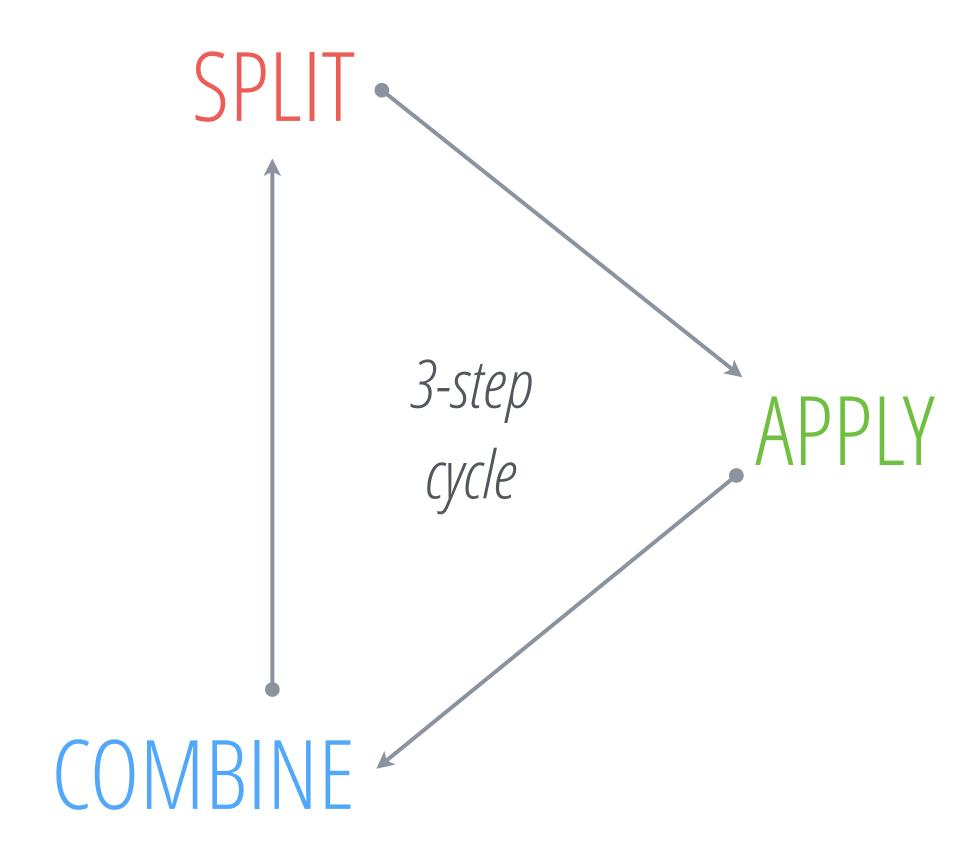


SPLIT

APPLY

COMBINE

BASIC PROCESS



이 과정을 한 번에 하려면?

APPLY FAMILY

APPLY FUNCTIONS

APPLY LAPPLY SAPPLY TAPPLY

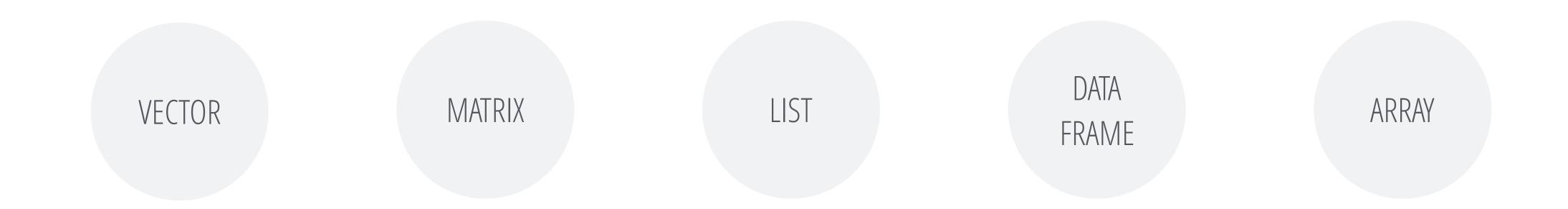
가지고 있는 데이터를

행, 열을 기준으로 나누어서

원하는 함수를 적용시키고

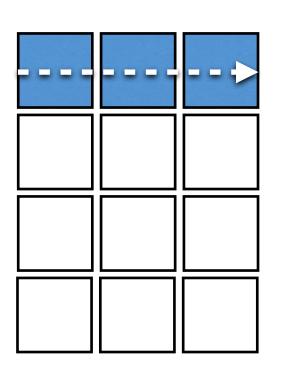
다시 합쳐주는 함수

DATA STRUCTURE

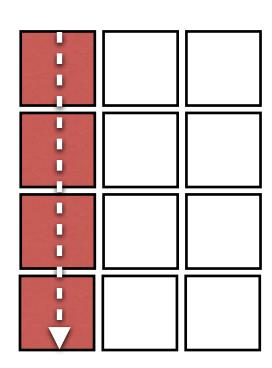


APPLY





margin = 1



margin = 2



MATRIX

ARRAY

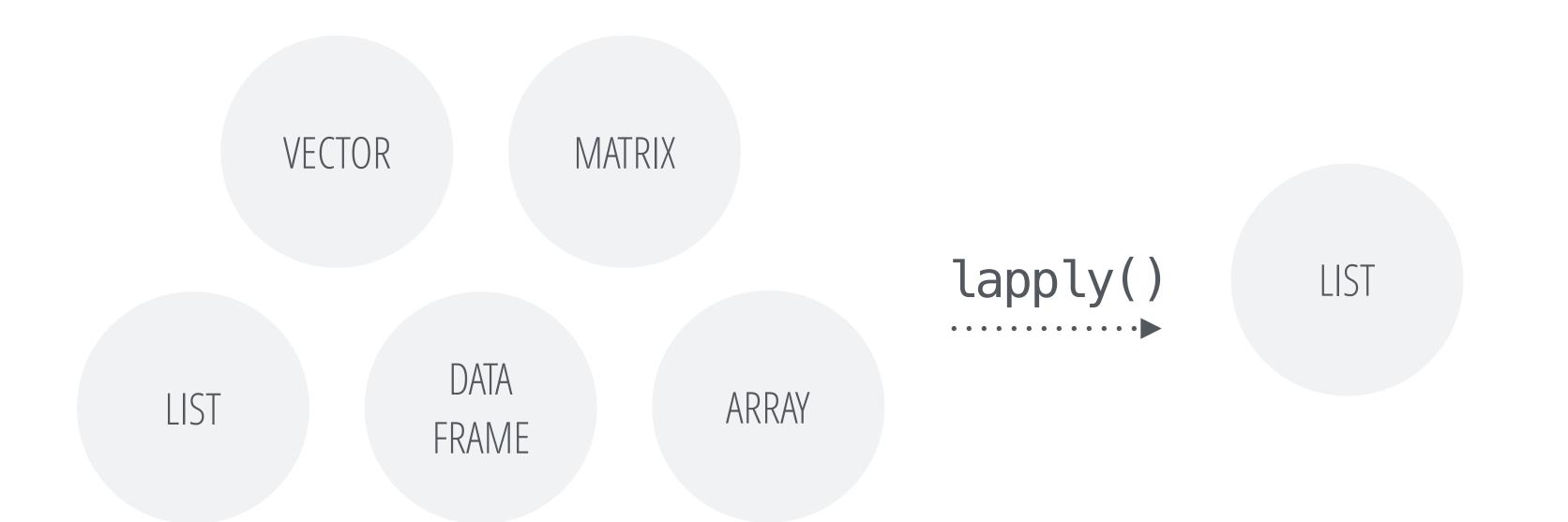
apply()

VECTOR

LIST

ARRAY

LAPPLY



SAPPLY



TAPPLY

```
tapply(data, index, function, ...)
데이터 인덱스 적용할함수
```

1 2 3 4 5 6 7 8 9 10 홀 짝 홀 짝 홀 짝 홀 짝 홀 짝

VECTOR MATRIX tapply() VECTOR

