R_intro_5

Karel Fišer, 2018

IF

```
> if (x==0) {
>     print("zero")
> } else if (x>0) {
>     print("positive")
> } else {
>     print("negative")
> }
```

FOR

for(variable in sequence) {

statements

}

```
> for (ii in 1:5) {
>   print(ii)
> }
```

```
> for (ii in 1:5) {
>   2^ii
>   print(ii^ii)
>   x <- ii
> }
```

Your turn

use both for and if

1) load data `flow_data.txt` and explore
2) get summary statistics (`summary`, `quantile`)
3) print 75th quantile of all columns (`for`)
4) print 75th quantile of selected columns (e.g. `'CD19','CD20'`) only (`if, colnames`)
5) get data with value >= 75th of selected columns

Your turn

use both for and if

- size and shape of data? Can you open them in other program on your computer?

- how to subset the data?

- select column based on variable

- where can we go without `if` and `for`?

- plotting the results

- nicer output with `paste`

http://www.bioinformin.net