

Building views with R

```
require(pryr) ; require(dplyr)
```

What are views?

What: A view is a table that actively depend on a data frame and on a query on it

Why: If you change something in the data frame, the view will change accordingly

Alternatives in R

Function `makeActiveBinding()`

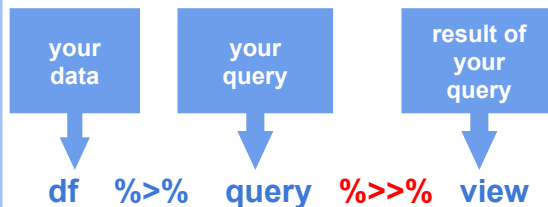
Unfriendly, complex and not coherent with dplyr structure

Operator `%<a-%`

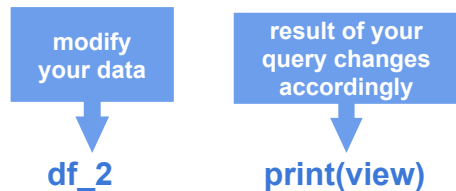
More friendly and easier, but still not coherent with dplyr structure

Proposal: operator `%>>%`

Operator `%>>%`:



Change something in df, `view` changes



Example

```
> mtcars %>%
+   group_by(cyl) %>%
+   summarise(mean_mpg = mean(mpg), sd_mpg = sd(mpg)) %>>%
+   view
> view
# A tibble: 3 × 3
  cyl mean_mpg sd_mpg
<dbl> <dbl> <dbl>
1     4  26.66364  4.509828
2     6  19.74286  1.453567
3     8  15.10000  2.560048
```

Example

```
> mtcars$mpg[c(1,3,5)] <- 100
> view
# A tibble: 3 × 3
  cyl mean_mpg sd_mpg
<dbl> <dbl> <dbl>
1     4  33.68182 22.41624
2     6  31.02857 30.44321
3     8  20.90714 22.88454
```

- Coherent with dplyr structure
- Assigns the result of the “query” at the end of it