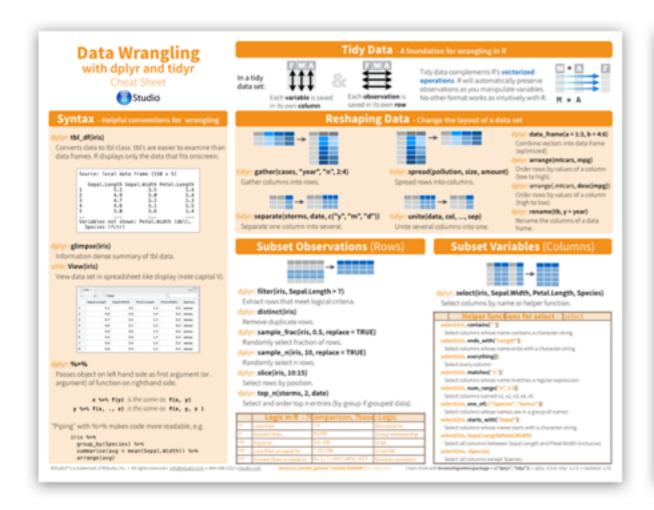# Working with tidy data

Lab 3
2/3/16

R Studio offers cheat sheets

https://www.rstudio.com/resources/cheatsheets/

```
filter(iris, …)
```

Logic in R

Operator	Definition	Example
>	greater than	`filter(iris, Sepal.Length > 1)`
<	less than	`filter(iris, Sepal.Length < 1)`
==	equal to	`filter(iris, Sepal.Length == 1)`
<=	less than or equal to	`filter(iris, Sepal.Length <= 1)`
>=	greater than or equal to	`filter(iris, Sepal.Length >= 1)`
!=	not equal	`filter(iris, Sepal.Length != 1)`

More logic in R

Operator	Definition	Example
%in%	group membership	filter(iris, Species %in% c("setosa", "versicolor"))
is.na()	is NA	filter(iris, is.na(Sepal.Length))
!is.na()	is not NA	filter(iris, !is.na(Sepal.Length))

Boolean operators in R

Operator	Definition	Example
&	and	`filter(iris, Species == "setosa" & Sepal.Length > 3))`
|	or (pipe character)	`filter(iris, Species == "setosa" | Sepal.Length > 3))`
!	not	`filter(iris, !is.na(Sepal.Length))`
xor		
any		
all		