A	Metadata				Data			
xxxxx x machi xxxxx y machi xxxxx z machi : : n machi	ne_name   date ne_001   2016-09-0 ne_001   2016-09-0 ne_002   2016-09-0 ine_n   date_n	101 B 103 A 105 Condition	sex  M  F  sex <sub>n</sub> nent field	p p <sub>1</sub> p <sub>2</sub> p <sub>3</sub> :: p <sub>n</sub>		id t xxxxx x 1 xxxxx x 2 xxxxx x 3 xxxxx x : xxxxx y : xxxxx z 1 xxxxx z 2 xxxxx z 3 xxxxx z : : : : : : : : : : : : : : : : : : :	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
<b>B</b> Metadata					n : :   q <sub>n,k<sub>n</sub></sub>    Data			
Select	dt[CRITERIA, meta = TRUE]			dt[CRITERIA]				
	<pre>&gt; male_meta &lt;- dt[sex == "M",</pre>			> late_dt <- dt[t > 5]				
					Note: metadata is updated when selection removes all data from one id.			
Alter, create &	<pre>dt[, X := value, meta = TRUE]</pre>				dt[, Y := value]			
delete (meta)variables	<pre>&gt; dt[, genotype := "wt", meta = TRUE] &gt; dt[, sex := NULL, meta = TRUE] # delete</pre>				> dt[, t_2 := t-1] > dt[, t := NULL] # delete t			
					Note: update data in place.  No copy of dt in memory.			
Expand metavariables as variables	<pre>dt[xmv(X)] &gt; dt &lt;- dt[xmv(sex) == "M"] # select data with sex &gt; dt[, s := xmv(sex)] # copy metavariable as variable</pre>							
Aggregate &	dt[, OPERATION,	by = id]				OPERATION		
summary	<pre>&gt; # mean activity, per individual &gt; dt &lt;- dt[,.(</pre>							
Join data & metadata	<pre>rejoin(dt) &gt; full_table &lt;- Note: used mostly</pre>		n			REJOIN		
	Note: used mostly after aggregation or preprocessing							