A	Metadata						Data					
xxxxx x machi xxxxx y machi xxxxx z machi : : n machi	ne_001 2016 ne_002 2016 :	6-09-01 6-09-01 6-09-03 e _n	condition A B A : condition Experim	sex M M F : sex _n	p p p p)1)2)3)n	+	id xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx	x 2 x 3 x : y : z 1 z 2 z 3 z :	activity 1 0 0 2 0 :	q q q _{1,1} q _{1,2} q _{1,3} i q _{3,1} q _{3,3} q _{3,3} i q _{3,3}	
B Metadata							n : : q _{n,k_n} Data					
Select	TRUE]	E]			dt[CRITER]	[A]						
	> male_meta <- dt[sex == "M",					> late_dt <- dt[t > 5]						
						Note: metadata is updated when selection removes all data from one id.						
Alter, create &	dt[, X := value, meta = TRUE]					dt[, Y := value]						
delete (meta)variables	<pre>> dt[, genotype := "wt", meta = TRUE] > 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	etavariables											
Aggregate &	dt[, OPERAT	TION, by =	id]					OPERATI	ON			
summary	<pre>> # mean activity, per individual > dt <- dt[,.(</pre>											
	z del, in, by – id) # count reads per id											
Join data & metadata	rejoin(dt) > full_tabl			1				REJOIN	-			
	Note: used mostly after aggregation or preprocessing											