

A Metadata				Data	
xxxxx x machii xxxxx y machii xxxxx z machii : : n machii	ne_name date ne_001 2016-09-01 ne_002 2016-09-03 ine_n date_n Platform fields	A M B M A F E E E	O O1 O2 O3 :: Oh	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
B Metadata				Data	
Select	<pre>dt[CRITERIA, meta = TRUE] > male_meta <- dt[sex == "M",</pre>		dt[CRITE	RIA]	
			> late_d	> late_dt <- dt[t > 5]	
				Note: metadata is updated when selection removes all data from one id.	
Alter, create & delete	<pre>dt[, X := value, meta = TRUE]</pre>		dt[, Y :	= value]	
(meta)variables	> dt[, genotype := "wt", meta = TRUE] > dt[, sex := NULL] #delete sex			_2 := t-1] := NULL] #delete t	
			•	Note: update data in place. No copy of dt in memory.	
Expand metavariables as variables	<pre>dt[xmv(X)] > dt <- dt[xmv(sex) == "M"] > dt[, s := xmv(sex)]</pre>				
Aggregate &	dt[, OPERATION, by	= id]		OPERATION	
summary	<pre>> dt <- dt[,.(</pre>				
Join data & metadata	<pre>rejoin(dt) > full_table <- rejoin(dt)</pre>			REJOIN	
	Note: used mostly afte or preprocessing				

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