

<b>A</b> Metadata				Data	
xxxxx x machi xxxxx y machi xxxxx z machi : : n machi	ne_name   date   ne_001   2016-09-01   ne_001   2016-09-03   ne_002   2016-09-03   ine_n   date_n   Platform fields	A M B M A F	p p <sub>1</sub> p <sub>2</sub> p <sub>3</sub> : p <sub>n</sub>	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
B Metadata				Data	
Select	<pre>dt[CRITERIA, meta = TRUE]</pre>		dt[CRITE	RIA]	
	> male_meta <- dt[sex == "M", meta = TRUE]		> late_d	t <- 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	<pre>&gt; dt[, genotype := "wt", meta = TRUE] &gt; dt[, sex := NULL] #delete sex</pre>			_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)] &gt; dt &lt;- dt[xmv(sex) == "M"] &gt; dt[, s := xmv(sex)]</pre>				
Aggregate &	dt[, OPERATION, by	= id]		OPERATION	
summary	<pre>&gt; dt &lt;- dt[,.(</pre>				
Join data &	<pre>rejoin(dt) &gt; full_table &lt;- rejoin(dt)</pre>			REJOIN	
metadata					
	Note: used mostly afte or preprocessing	r aggregation			







