

<b>A</b> Metadata		Data
xxxxx x machi xxxxx y machi xxxxx z machi : : n machi	ne_name   date     condition   sex     p   ne_001   2016-09-01     B   M     p_1   ne_001   2016-09-03     A   F     p_3     e_002   2016-09-03     A   F     p_3   e_ne_n   date_n     condition_n   sex_n     p_n     condition_n   sex_n     condition_n   sex_n     condition_n   sex_n     condition_n     condition_n   sex_n     condition_n     condition_n   sex_n     condition_n   sex_n     con	id t activity q $xxxxx x$ 1 1 $q_{1,1}$ $xxxxx x$ 2 0 $q_{1,2}$ $q_{1,2}$ $q_{1,3}$ $q_{1,3}$ $q_{1,2}$ $q_{1,3}$ $q_{1,2}$ $q_{1,3}$ $q_$
B Metadata		Data
Select	<pre># to subet the metadata only for males &gt; male_meta &lt;- dt[sex == "M",</pre>	# to keep only data > 5s  > late_dt <- dt[t > 5]  Note: metadata is updated when selection removes all data from one id.
Alter, create & delete (meta)variables	<pre>dt[, X := value, meta = TRUE] # to create a metavariable set to "wt" &gt; dt[, genotype := "wt", meta = TRUE] # delete &gt; dt[, sex := NULL, meta = TRUE]</pre>	<pre>dt[, Y := value]  # to create t_2 (t - 1) &gt; dt[, t_2 := t - 1]  # to delete t &gt; dt[, t := NULL]  Note: update data in place. No copy of dt in memory.</pre>
Expand metavariables as variables	<pre>dt[xmv(X)]  # to select data with sex &gt; dt &lt;- dt[xmv(sex) == "M"]  # to copy a metavariable as a variable &gt; dt[, s := xmv(sex)]</pre>	
Aggregate & summary	<pre>dt[, OPERATION, by = id]  # to compute mean activity, per individual &gt; dt &lt;- dt[,.(</pre>	OPERATION
Join data & metadata	<pre>rejoin(dt)  # to reunite data and metadata &gt; full_table &lt;- rejoin(dt)  Note: used mostly after aggregation or preprocessing</pre>	REJOIN







