Property	complexheatmap	maftools	GenVisR	ggoncoplot
Sample sorting algorithm	memo sort	heirarchical sort	heirarchical sort	heirarchical sort
Plotting framework	BaseR	BaseR	ggplot2	ggplot2
Automatic rendering of clinical annotations as bar or tile plots based on datatype	No	No	No	**Yes**
Works on tabular, tidy, long-form input data as would be stored in large databases	No	**Yes**	**Yes**	**Yes**
Interactive	Yes[1]	No	No	**Yes**
Customisable tooltips	No	No	No	**Yes**
Allows any mutation dictionary to be used	**Yes**	No	**Yes**	**Yes**
Automatic colour palette selection when mutation impact dictionary conforms to known ontologies	No	Yes (MAF only)	No	**Yes (MAF, SO, or PAVE)**
Approach for resolving genes with multiple mutations	Different Visualisation on Plot[2]	**Flags as Multi-Hit**	Picks more severe consequence or leaves to user[3]	**Flags as Multi-Hit**
Supports a mutation level dataset as input	No[4]	**Yes**	**Yes**	**Yes**
Native support for faceting by pathway	No	**Yes**	No	**Yes**
Supports marginal plots describing TMB, gene mutation recurrence, and clinical annotations	**Yes**	**Yes**	**Yes**	**Yes**