

Property	complexheatmap	maftools	GenVisR	ggoncplot
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
Color tiles based on any feature describing mutations	Yes	No ²	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 distinguishing genes with multiple mutations (e.g. second-hits)	Different Visualisation on Plot ³	Flags as Multi-Hit	Picks more severe consequence or leaves to user ⁴	Flags as Multi-Hit
Supports datasets where rows represent mutations not genes	No ⁵	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