

# of response variables

	Classical linear models	Generalized linear models
1	LM family: $E(y)=\mathbf{X}\beta$ , $V(y \mathbf{X})=\sigma^2\mathbf{I}$ Anova, regression, ... Many graphical methods: effect plots, spread-leverage, influence, ...	GLM: $E(y)=g^{-1}(\mathbf{X}\beta)$ , $V=V[g^{-1}(\mathbf{X}\beta)]$ poisson, logistic, loglinear, ... Some graphical methods: mosaic plots, 4fold plots, diagnostic plots, ...
2+	MLM: $E(\mathbf{Y})=\mathbf{X}\beta$ , $V(\mathbf{Y} \mathbf{X})=\mathbf{I}\otimes\boldsymbol{\Sigma}$ MANOVA, MMReg, ... Graphical methods: ???	MGLM: ???  Graphical methods: ???

Not much here

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Fill the gap!