

For classification trees

$$\text{Deviance} = -2 \sum_n \sum_k m_{mk} \log \hat{p}_{mk}$$

$m_{mk}$  = number of observations in the  $m^{\text{th}}$  terminal node that belongs to  $k^{\text{th}}$  class

$$\text{Residual mean deviance} = \frac{\text{Deviance}}{n - |T_0|}$$