



- Logistic loss:  $\ell_{\text{logistic}}(y, f(\mathbf{x})) = \log(1 + \exp(yf(\mathbf{x}))) / \log(2)$
- Hinge loss:  $\ell_{\text{hinge}}(y, f(\mathbf{x})) = \max(0, 1 - yf(\mathbf{x}))$