

Graphing Loss vs Margin

Logistic regression:

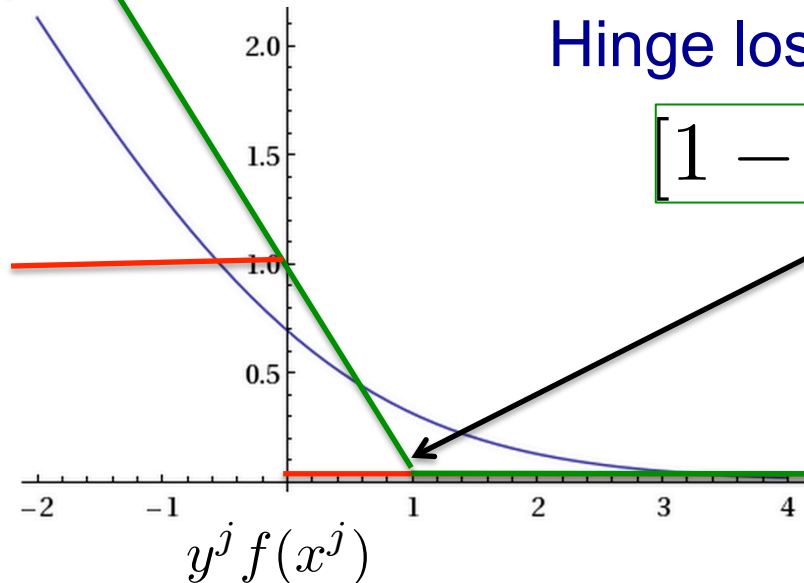
$$\ln(1 + \exp(-y^j f(x^j)))$$

0-1 Loss:

$$\delta(f(x^j) \neq y^j)$$

Hinge loss:

$$[1 - y^j f(x^j)]_+$$



We want to smoothly approximate 0/1 loss!