



If we are exposed to the same of many times, max step before it gets it right? $w^Tx \leq 0$

$$(w+x)^T x \leq o \qquad (y=1)$$

 $\vdots \quad k \quad update$

$$k = \frac{-w^Tw}{x^Tx}$$
 Can only get a fixed pt wrong finite times

Convergence Proof next time