

Entropy

$$\text{entropy} = \sum_i (P_i) \log_2 (P_i)$$

ssff

grade	bumpiness	speed limit?	speed
steep	bumpy	yes	slow -
steep	smooth	yes	slow -
flat	bumpy	no	fast -
steep	smooth	no	fast -

entropy of this node?

how many slow? 2

how many examples total? 4

P_i = fraction of slow examples =

0.5

