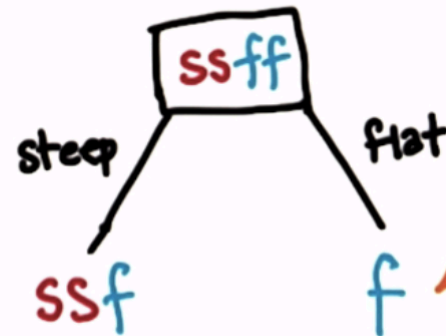


Information Gain

$$\text{information gain} = \text{entropy (parent)} - [\text{weighted average}] \text{ entropy (children)}$$

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

entropy of parent = 1.0



entropy of this node?