

$$G(S_2, RAM) = H(S_2) - \frac{|S_{2NT}|}{|S_2|} H(S_{2NT}) - \frac{|S_{2Wahl}|}{|S_2|} H(S_{2Wahl})$$

$$|S_{2NT}| = 3$$

$$|S_{2Wahl}| = 2$$

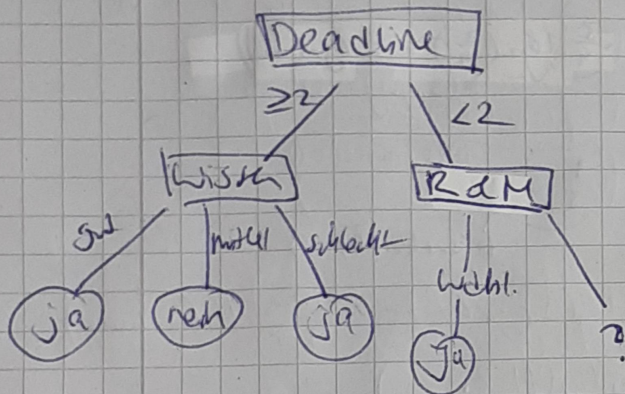
$$= 0,97095 - \frac{3}{5} \left( \frac{2}{3} \log_2 \left( \frac{2}{3} \right) - \frac{1}{3} \log_2 \left( \frac{1}{3} \right) \right) - \frac{2}{5} \left( \frac{2}{2} \log_2 \left( \frac{2}{2} \right) - \frac{0}{2} \right)$$

$$H(S_{2NT}) = 0$$

$$H(S_{2Wahl}) = 0$$

$$\approx 0,41997$$

← Egal ob wir  
nach Wissen  
oder RAM  
aufteilen  
wir wählen  
RAM



$$S_3 = (ja, ja) \quad |S_3| = 2$$

$$H(S_3) = \frac{2}{2} \log_2 \left( \frac{2}{2} \right) - \frac{0}{2} = 0$$

$$S_4 = (ja, nein, nein) \quad |S_4| = 3$$

$$H(S_4) = -\frac{2}{3} \log_2 \left( \frac{2}{3} \right) - \frac{1}{3} \log_2 \left( \frac{1}{3} \right)$$

$$\approx 0,918296$$

$$G(S_4, Wissen) = H(S_4) - \frac{|S_{4gut}|}{|S_4|} H(S_{4gut}) - \frac{|S_{4mittel}|}{|S_4|} H(S_{4mittel}) - \frac{|S_{4schlecht}|}{|S_4|} H(S_{4schlecht})$$

$$|S_{4gut}| = 1$$

$$|S_{4mittel}| = 1$$

$$|S_{4schlecht}| = 1$$

$$= 0,918296 - \frac{1}{3} \left( -\frac{1}{1} \log_2 \left( \frac{1}{1} \right) - \frac{0}{1} \right) - \frac{1}{3} \left( -\frac{1}{1} \log_2 \left( \frac{1}{1} \right) - \frac{0}{1} \right) - \frac{1}{3} \left( -\frac{1}{1} \log_2 \left( \frac{1}{1} \right) - \frac{0}{1} \right)$$

$$H(S_{4gut}) = 0$$

$$H(S_{4mittel}) = 0$$

$$H(S_{4schlecht}) = 0$$

$$= 0,918296$$

$$G(S_4, Wahl) = H(S_4) - \frac{|S_{4gut}|}{|S_4|} H(S_{4gut}) - \frac{|S_{4keine}|}{|S_4|} H(S_{4keine})$$

$$|S_{4gut}| = 1$$

$$|S_{4keine}| = 2$$

$$= 0,918296 - \frac{1}{3} \left( -\frac{1}{1} \log_2 \left( \frac{1}{1} \right) - \frac{0}{1} \right) - \frac{2}{3} \left( -\frac{1}{2} \log_2 \left( \frac{1}{2} \right) - \frac{1}{2} \log_2 \left( \frac{1}{2} \right) \right)$$

$$H(S_{4gut}) = 0$$

$$H(S_{4keine}) = 1$$

$$\approx 0,251629$$

