

"Normale" Subtraktion

$$\begin{array}{r} 1010 \quad 10_{10} \\ - 0010 \quad -2_{10} \\ \hline 1000 \quad 8_{10} \end{array}$$

$$\begin{array}{r} 1100 \quad 12_{10} \\ - 1001 \quad -9_{10} \\ \hline 0011 \quad 3_{10} \end{array}$$

$$2+1=3 \checkmark$$

Hilfestellung
 0-0=0
 1-1=0
 1-0=1
 0-1=Übertrag

Das Zweierkomplement

$$\begin{array}{r} 1100 \quad 12_{10} \leftarrow \text{minuend} \\ - 1001 \quad -9_{10} \leftarrow \text{subtrahend} \\ \hline 3_{10} \end{array}$$

bits
flippen

$$\begin{array}{r} 0110 \\ 0001 \\ \hline 0111 \end{array}$$

Einer
Komplement

$$\begin{array}{r} 1100 \\ 0111 \\ \hline 10011_2 \end{array}$$

$$2+1=3_{10} \checkmark$$