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| **!** | Genau wie Buchstaben können wir auch Bilder grafisch darstellen, dazu müssen wir uns aber, eine Kodierungsvorschrift ausdenken. |

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| **Aufgabe 1**  Male ein Bild, indem du die Kästchen schwarz ausmalst, oder weiß lässt. Überlege dir anschließend, wie du das Bild in Byte darstellen kannst. Antwort:  *Tipp: ein Byte besteht aus 8 Bit.* | |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |

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| **Aufgabe 2**  Jetzt brauchen wir nur noch Farben für ein richtiges Bild. Füge eine Möglichkeit hinzu, die Farben Rot und Grün einzubauen. Antwort:  *Tipp: Man kann auch mehr als ein Bit pro Kästchen verwenden* | |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |

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| **Aufgabe 3**  Diesmal ist das Bild nicht mehr genau 8x8. Wie können wir jetzt wissen, an welcher Stelle die Zeile endet? Antwort: | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  |  | |  |  |  |  |  |  |  | |  |  |  |  |  |  |  | |  |  |  |  |  |  |  | |  |  |  |  |  |  |  | |  |  |  |  |  |  |  | |