

Mes besoins

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Besoins physiologiques de base



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Besoin de sécurité



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Besoin d'appartenance



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Besoin d'estime et de s'accomplir



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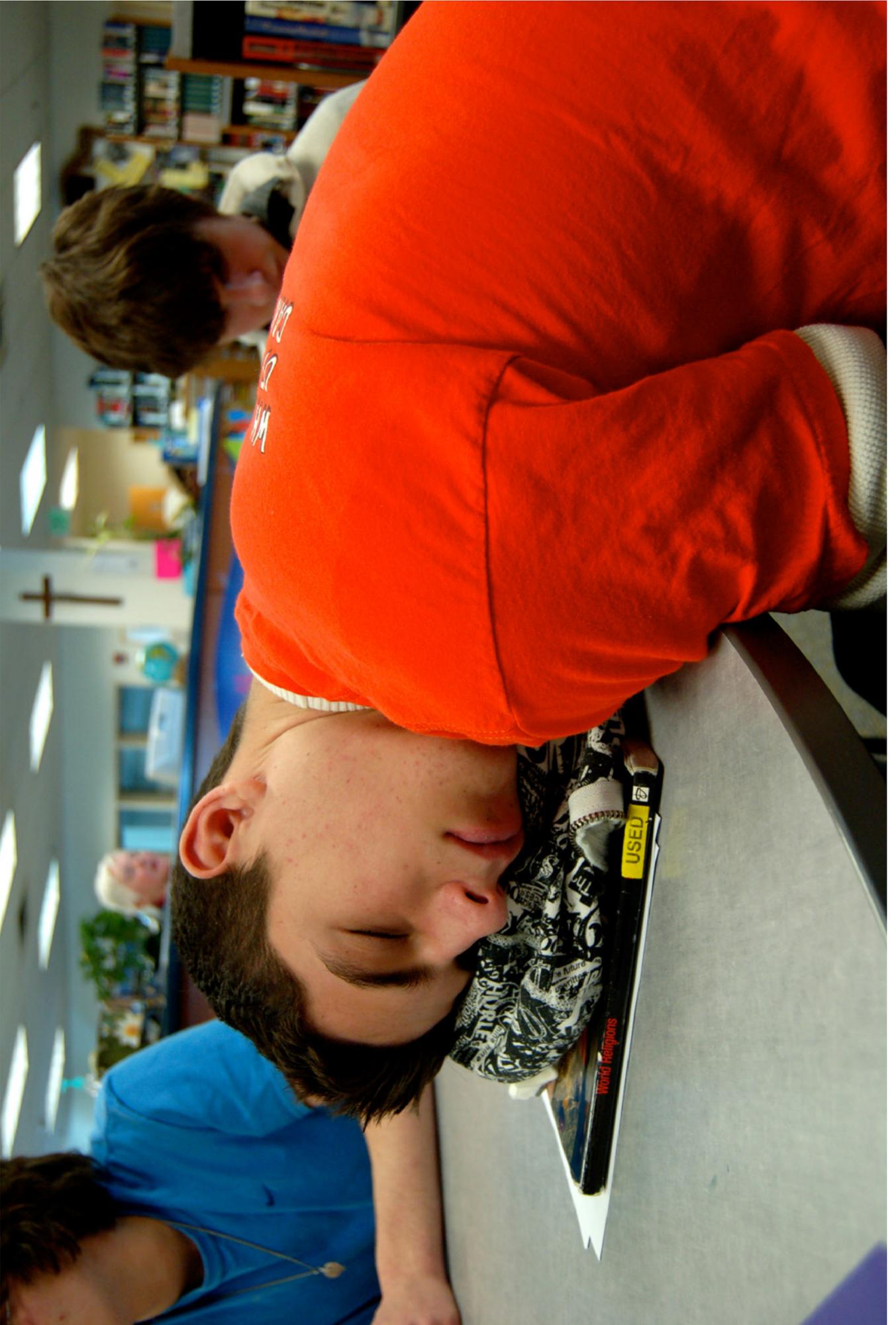






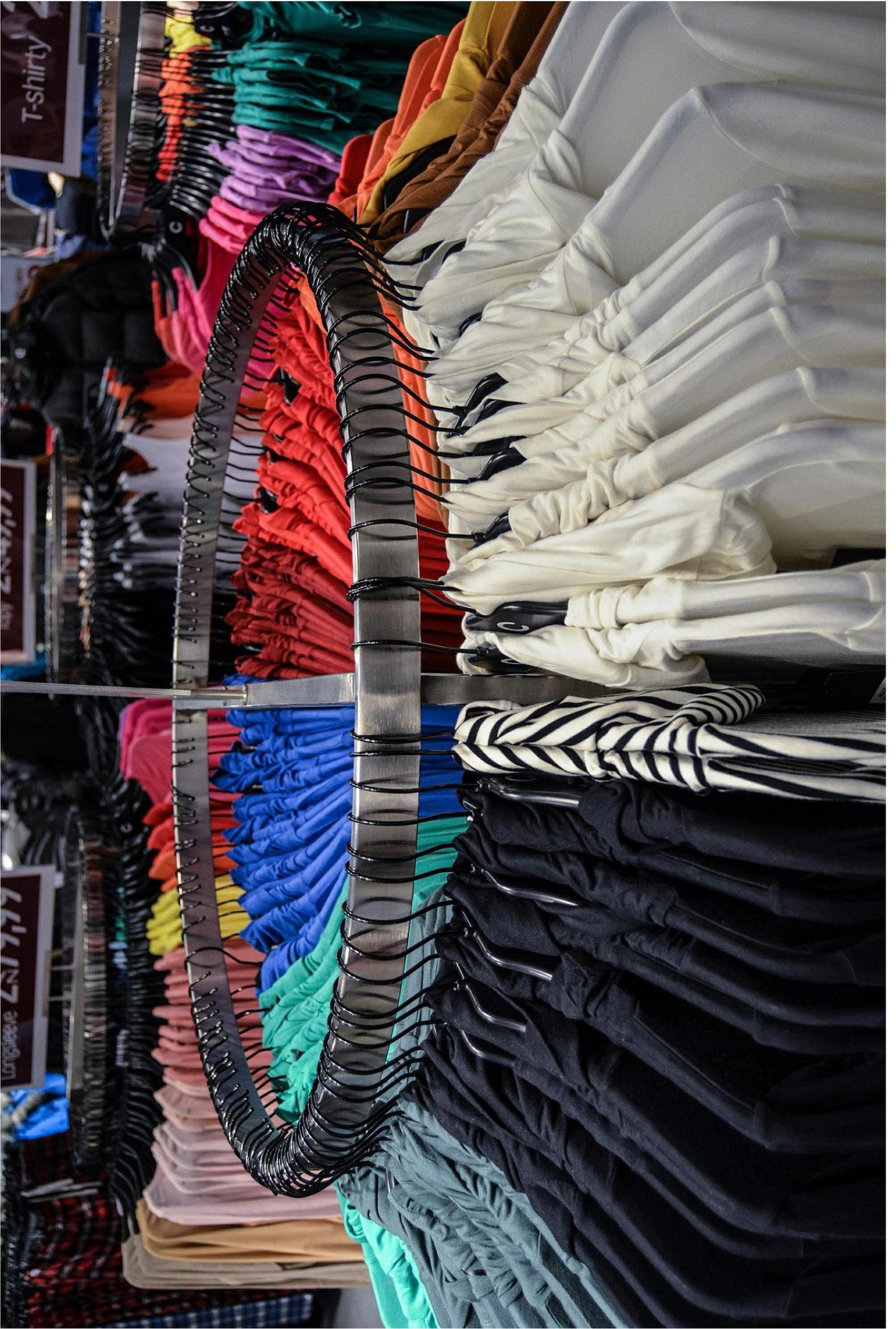














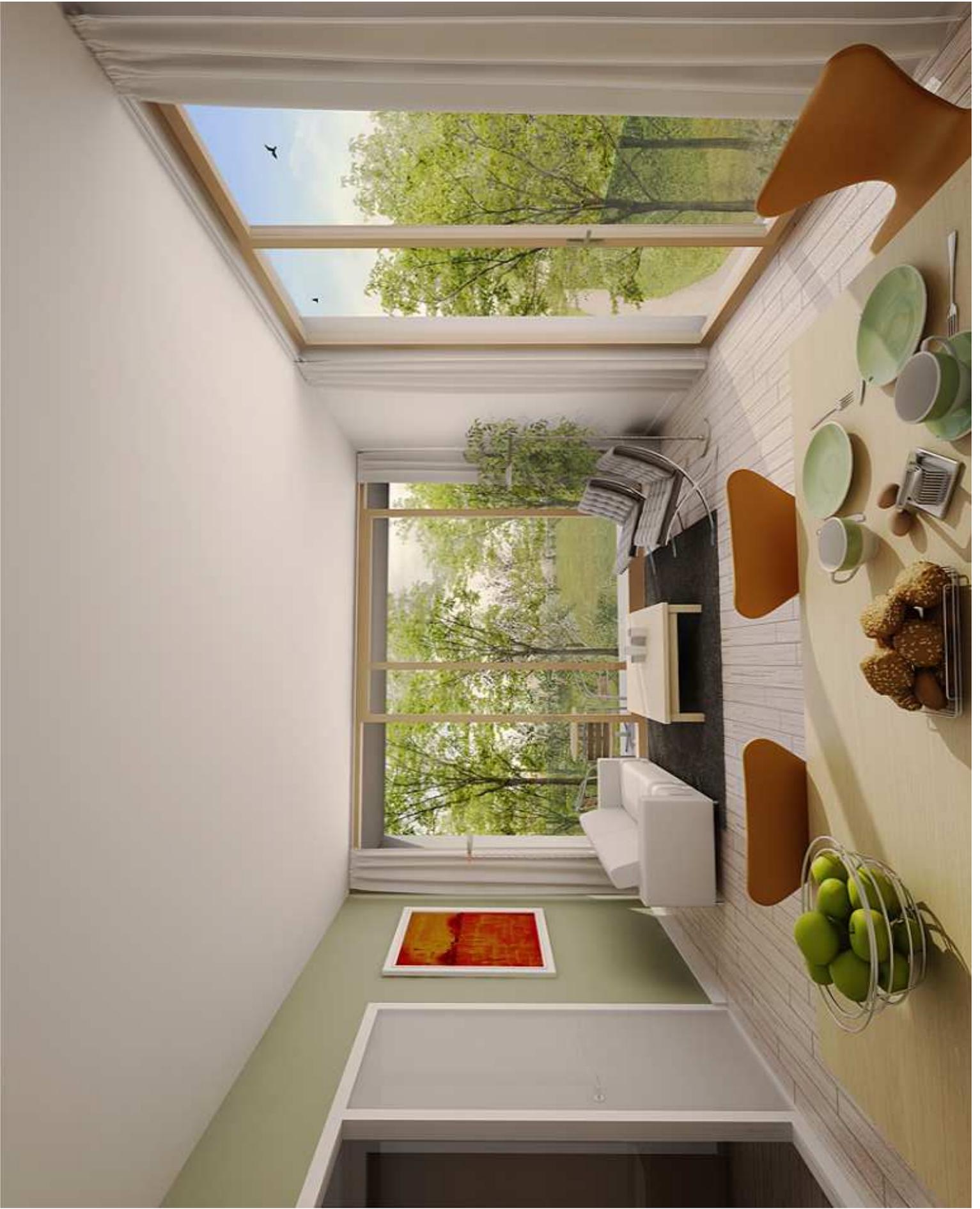


























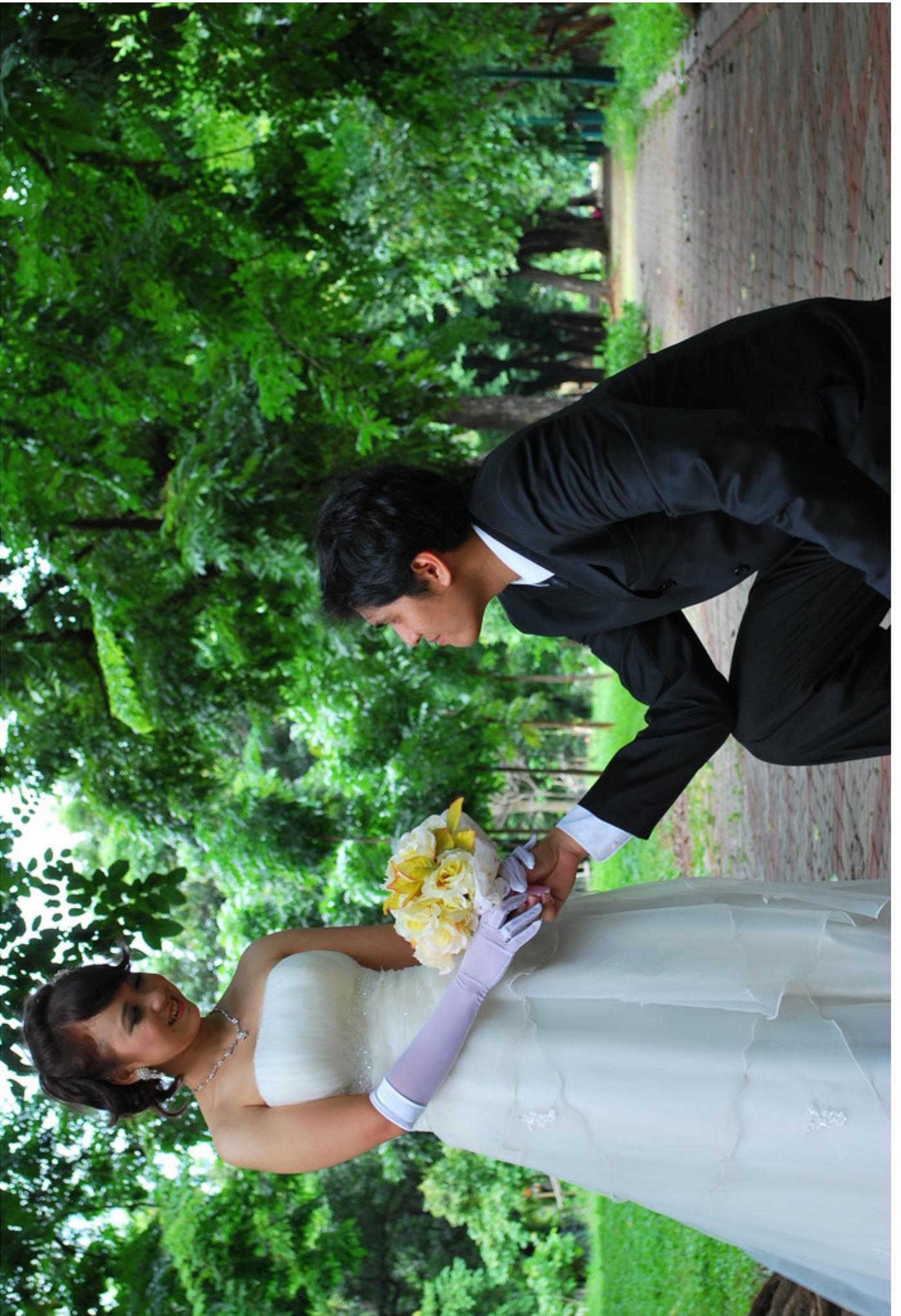


















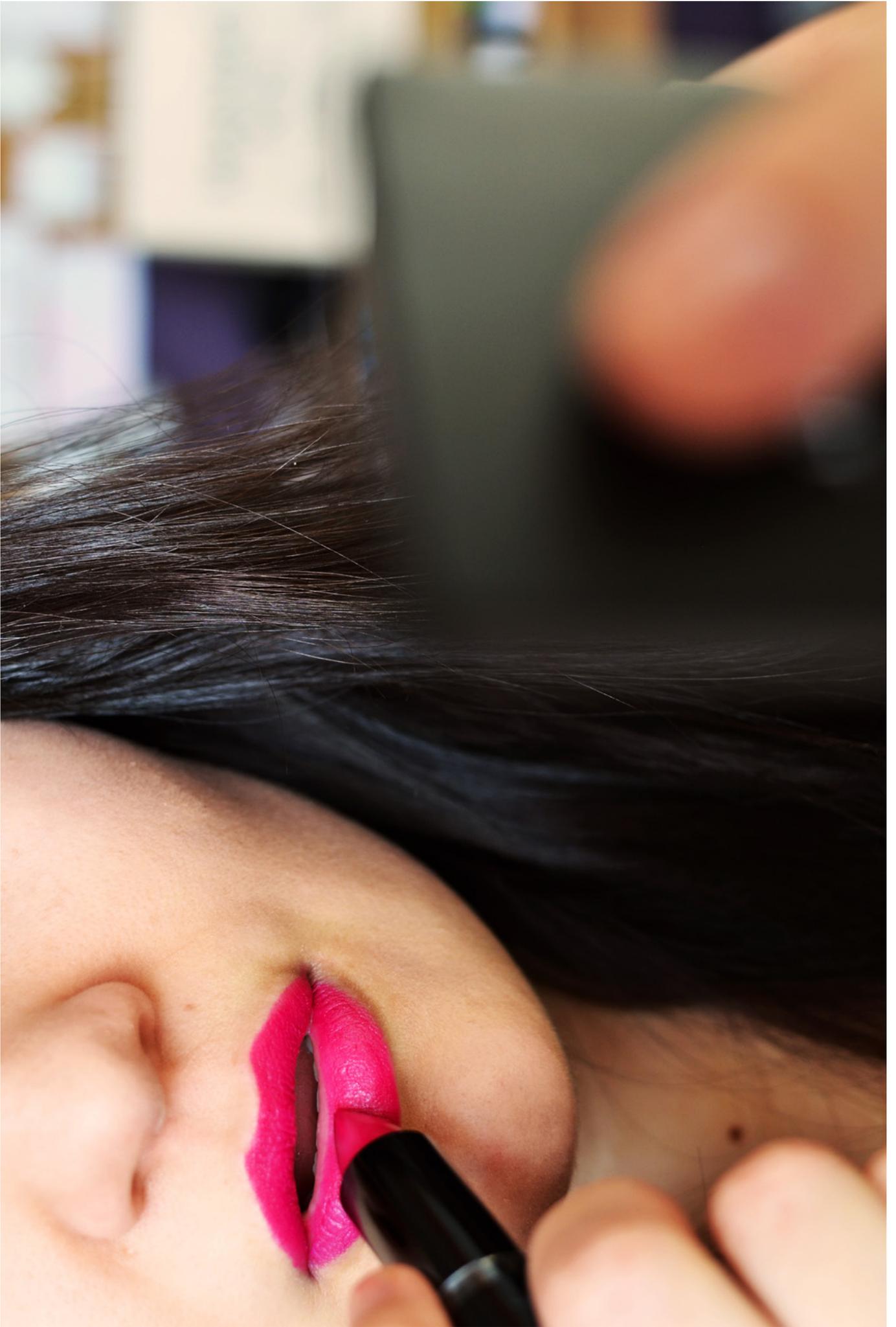


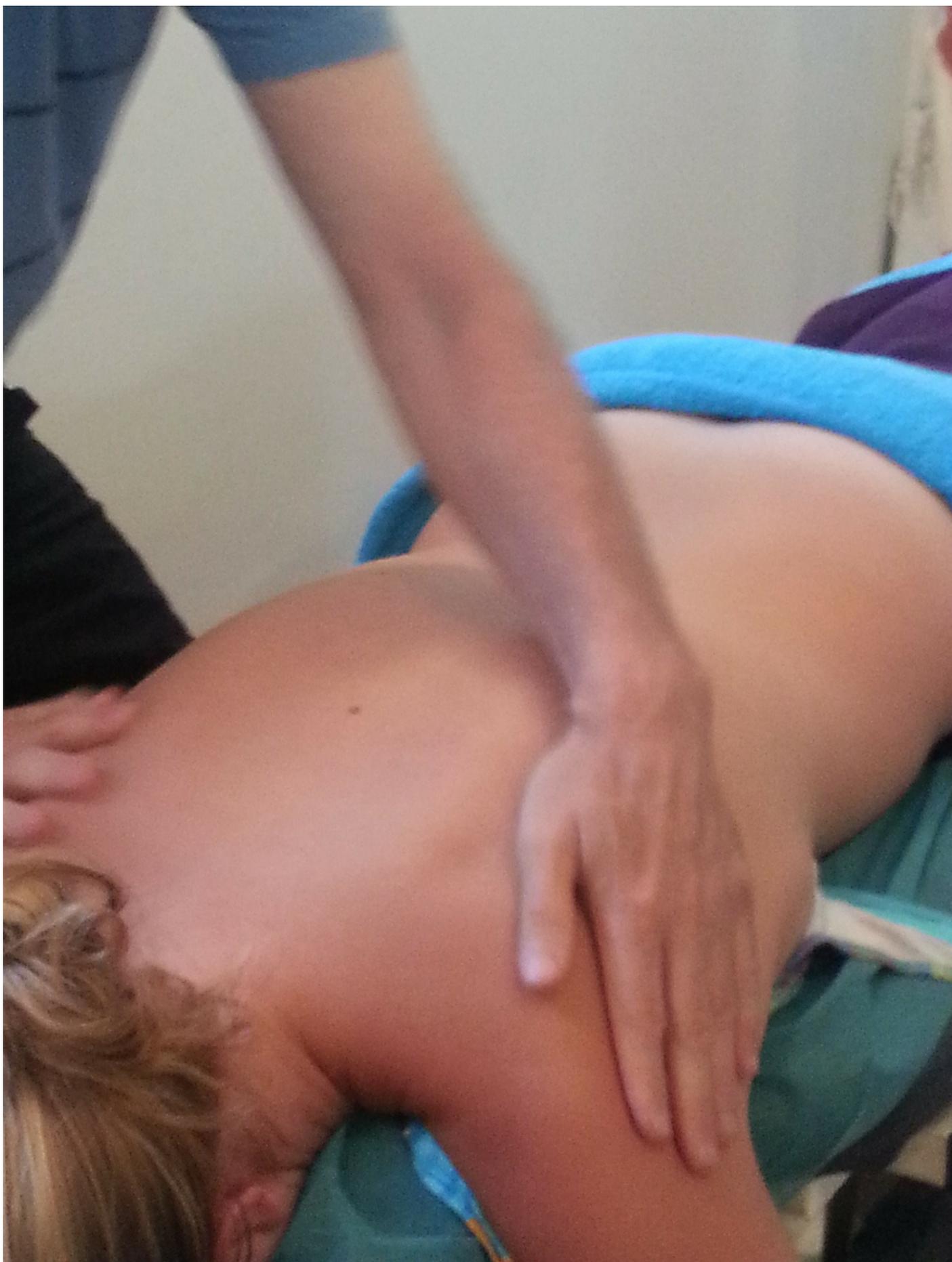














Matrix A invertierbar A^{-1}
 vordem lachst die Gauß-Jordan-
 Normalform

$$\left(A \mid I \right) \rightarrow \left(I \mid A^{-1} \right)$$

man kann

1. VV (Zeilen) tauschen
2. Zeilen addieren / subtrahieren
3. Zeilen mit einem Faktor multiplizieren

→ Selbsttest: $\det(A) \neq 0$

Form: $n \times n$ $A = \begin{pmatrix} a_{11} & a_{12} \\ a_{21} & a_{22} \end{pmatrix}$

$$\begin{pmatrix} a_{11} & a_{12} & | & 1 & 0 \\ a_{21} & a_{22} & | & 0 & 1 \end{pmatrix} \xrightarrow{R_1 \leftrightarrow R_2} \begin{pmatrix} a_{21} & a_{22} & | & 0 & 1 \\ a_{11} & a_{12} & | & 1 & 0 \end{pmatrix} \xrightarrow{-a_{21}R_2} \begin{pmatrix} a_{21} & a_{22} & | & 0 & 1 \\ 0 & a_{12} - a_{21}a_{22}^{-1}a_{12} & | & 1 & -a_{21}a_{22}^{-1} \end{pmatrix}$$

$$\begin{pmatrix} a_{11} & a_{12} & | & a_{21} & 0 \\ 0 & 1 & | & -a_{21} & a_{22} \end{pmatrix} \xrightarrow{+a_{21}R_2} \begin{pmatrix} a_{11} & a_{12} & | & 0 & a_{22} \\ 0 & 1 & | & -a_{21} & a_{22} \end{pmatrix} \xrightarrow{-a_{12}R_2} \begin{pmatrix} a_{11} & 0 & | & a_{12}a_{22}^{-1} & a_{11} \\ 0 & 1 & | & -a_{21} & a_{22} \end{pmatrix} \xrightarrow{-a_{11}R_1} \begin{pmatrix} 1 & 0 & | & a_{12}a_{22}^{-1} - a_{11} & a_{11} \\ 0 & 1 & | & -a_{21} & a_{22} \end{pmatrix} = A^{-1}$$

Form: $n \times n$ $A = \begin{pmatrix} a_{11} & a_{12} \\ a_{21} & a_{22} \end{pmatrix}$

$$\begin{pmatrix} a_{11} & a_{12} & | & 1 & 0 \\ a_{21} & a_{22} & | & 0 & 1 \end{pmatrix} \xrightarrow{-a_{21}R_1} \begin{pmatrix} a_{11} & a_{12} & | & 1 & 0 \\ 0 & a_{22} - a_{21}a_{11}^{-1}a_{12} & | & -a_{21}a_{11}^{-1} & 1 \end{pmatrix} \xrightarrow{+a_{21}a_{11}^{-1}R_2} \begin{pmatrix} a_{11} & a_{12} & | & 1 & 0 \\ 0 & a_{22} - a_{21}a_{11}^{-1}a_{12} & | & 0 & 1 - a_{21}a_{11}^{-1}a_{12}a_{11}^{-1} \end{pmatrix}$$

Form: $n \times n$ $A = \begin{pmatrix} a_{11} & a_{12} \\ a_{21} & a_{22} \end{pmatrix}$

$$\begin{pmatrix} a_{11} & a_{12} & | & 1 & 0 \\ a_{21} & a_{22} & | & 0 & 1 \end{pmatrix} \xrightarrow{-a_{21}R_1} \begin{pmatrix} a_{11} & a_{12} & | & 1 & 0 \\ 0 & a_{22} - a_{21}a_{11}^{-1}a_{12} & | & -a_{21}a_{11}^{-1} & 1 \end{pmatrix} \xrightarrow{+a_{21}a_{11}^{-1}R_2} \begin{pmatrix} a_{11} & a_{12} & | & 1 & 0 \\ 0 & a_{22} - a_{21}a_{11}^{-1}a_{12} & | & 0 & 1 - a_{21}a_{11}^{-1}a_{12}a_{11}^{-1} \end{pmatrix}$$

Form: $n \times n$ $A = \begin{pmatrix} a_{11} & a_{12} \\ a_{21} & a_{22} \end{pmatrix}$

$$\begin{pmatrix} a_{11} & a_{12} & | & 1 & 0 \\ a_{21} & a_{22} & | & 0 & 1 \end{pmatrix} \xrightarrow{-a_{21}R_1} \begin{pmatrix} a_{11} & a_{12} & | & 1 & 0 \\ 0 & a_{22} - a_{21}a_{11}^{-1}a_{12} & | & -a_{21}a_{11}^{-1} & 1 \end{pmatrix} \xrightarrow{+a_{21}a_{11}^{-1}R_2} \begin{pmatrix} a_{11} & a_{12} & | & 1 & 0 \\ 0 & a_{22} - a_{21}a_{11}^{-1}a_{12} & | & 0 & 1 - a_{21}a_{11}^{-1}a_{12}a_{11}^{-1} \end{pmatrix}$$

Form: $n \times n$ $A = \begin{pmatrix} a_{11} & a_{12} \\ a_{21} & a_{22} \end{pmatrix}$

$$\begin{pmatrix} a_{11} & a_{12} & | & 1 & 0 \\ a_{21} & a_{22} & | & 0 & 1 \end{pmatrix} \xrightarrow{-a_{21}R_1} \begin{pmatrix} a_{11} & a_{12} & | & 1 & 0 \\ 0 & a_{22} - a_{21}a_{11}^{-1}a_{12} & | & -a_{21}a_{11}^{-1} & 1 \end{pmatrix} \xrightarrow{+a_{21}a_{11}^{-1}R_2} \begin{pmatrix} a_{11} & a_{12} & | & 1 & 0 \\ 0 & a_{22} - a_{21}a_{11}^{-1}a_{12} & | & 0 & 1 - a_{21}a_{11}^{-1}a_{12}a_{11}^{-1} \end{pmatrix}$$

Matrix $A = \begin{pmatrix} 1 & 2 \\ 3 & 4 \end{pmatrix}$

$$\det(A) = \begin{vmatrix} 1 & 2 \\ 3 & 4 \end{vmatrix} = 1 \cdot 4 - 2 \cdot 3 = 4 - 6 = -2 \neq 0$$

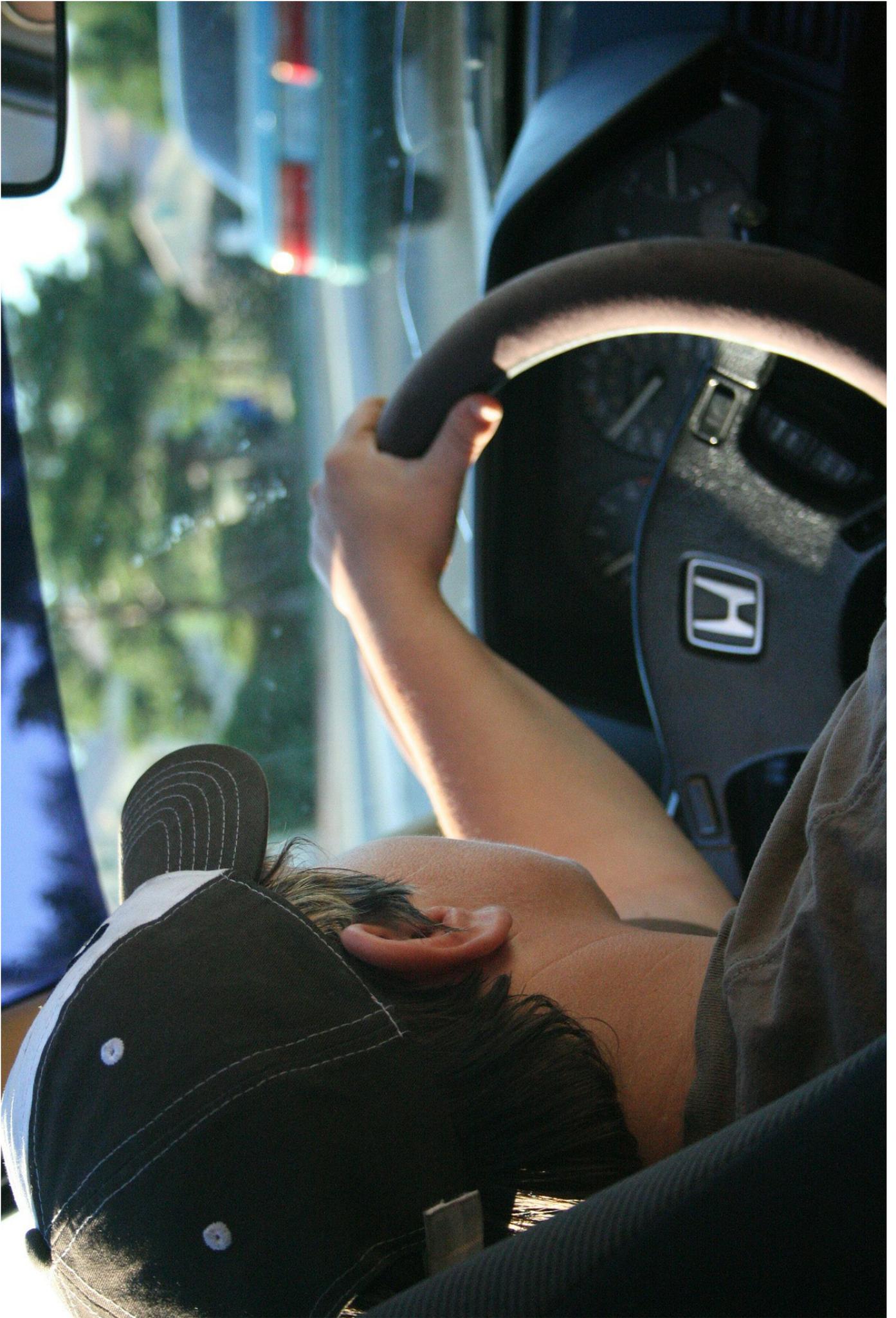
Matrix ist invertierbar

Matrix $A = \begin{pmatrix} 1 & 2 \\ 3 & 4 \end{pmatrix}$

$$\begin{pmatrix} 1 & 2 & | & 1 & 0 \\ 3 & 4 & | & 0 & 1 \end{pmatrix} \xrightarrow{-3R_1} \begin{pmatrix} 1 & 2 & | & 1 & 0 \\ 0 & -2 & | & -3 & 1 \end{pmatrix} \xrightarrow{+R_2} \begin{pmatrix} 1 & 2 & | & 1 & 0 \\ 0 & -2 & | & -3 & 1 \end{pmatrix} \xrightarrow{+R_1} \begin{pmatrix} 1 & 0 & | & -2 & -1 \\ 0 & -2 & | & -3 & 1 \end{pmatrix} \xrightarrow{-0.5R_2} \begin{pmatrix} 1 & 0 & | & -2 & -1 \\ 0 & 1 & | & 1.5 & -0.5 \end{pmatrix} \xrightarrow{+2R_2} \begin{pmatrix} 1 & 0 & | & -2 & -1 \\ 0 & 1 & | & 1.5 & -0.5 \end{pmatrix} \xrightarrow{+R_1} \begin{pmatrix} 1 & 0 & | & 1 & -2 \\ 0 & 1 & | & 1.5 & -0.5 \end{pmatrix} = A^{-1}$$

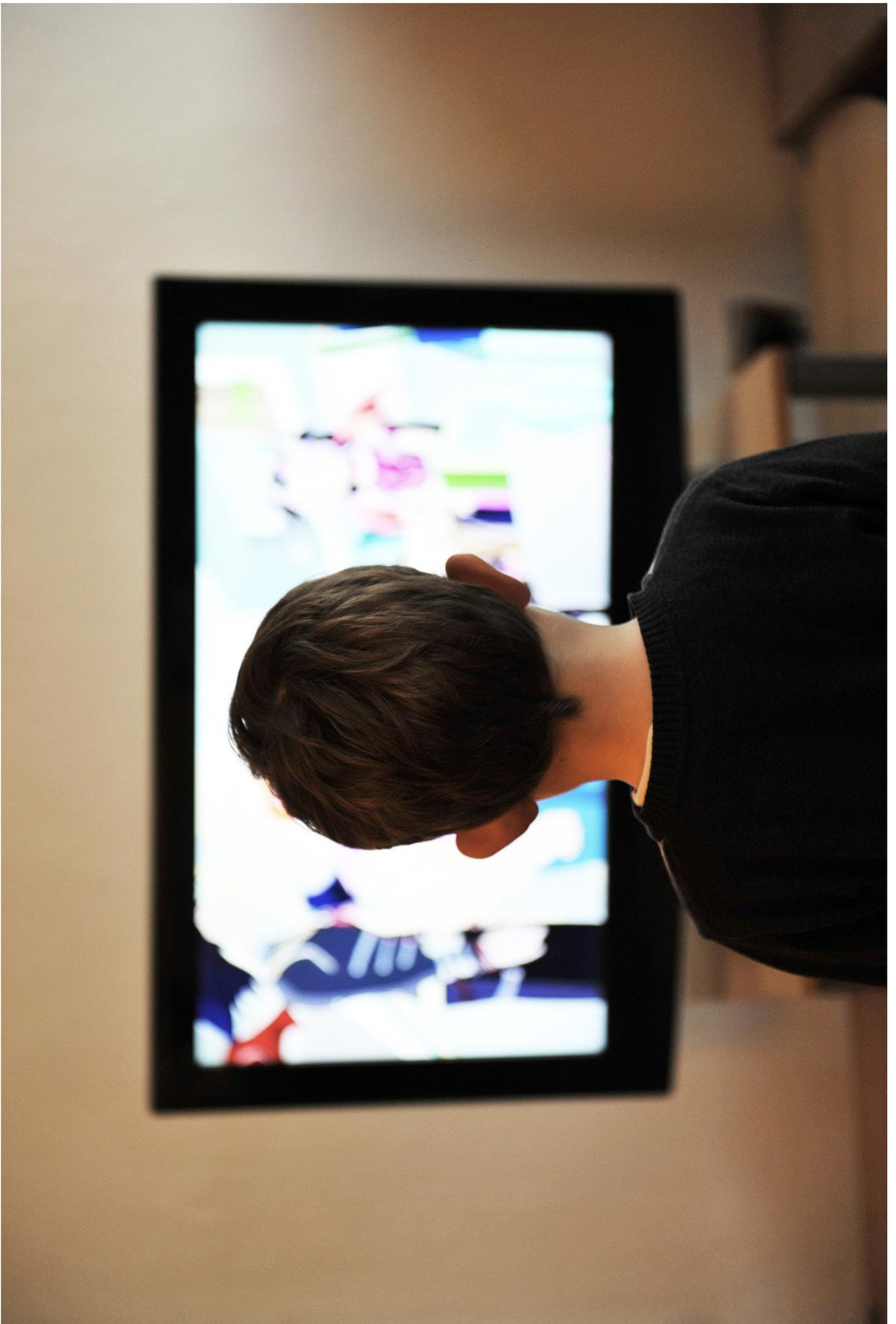






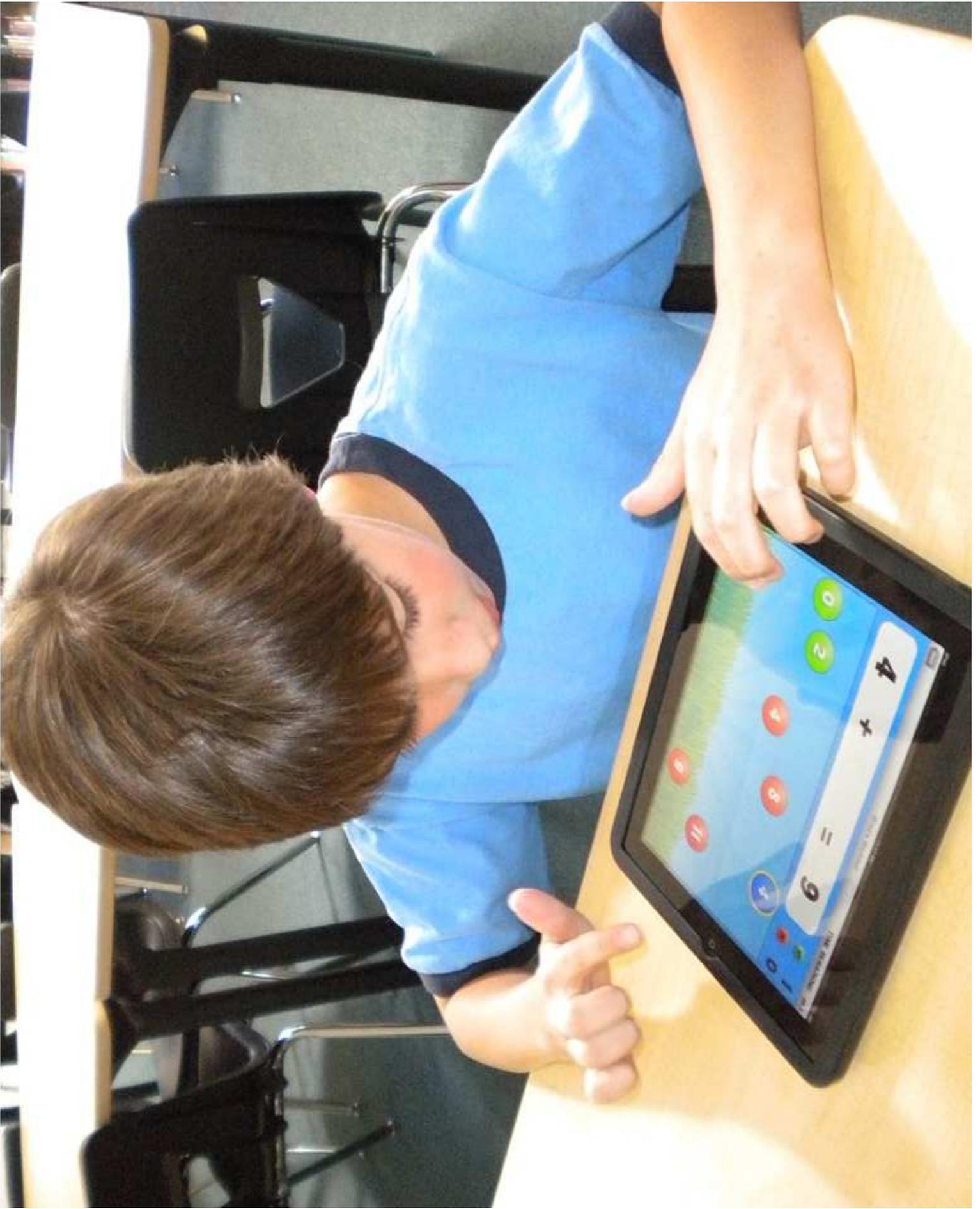


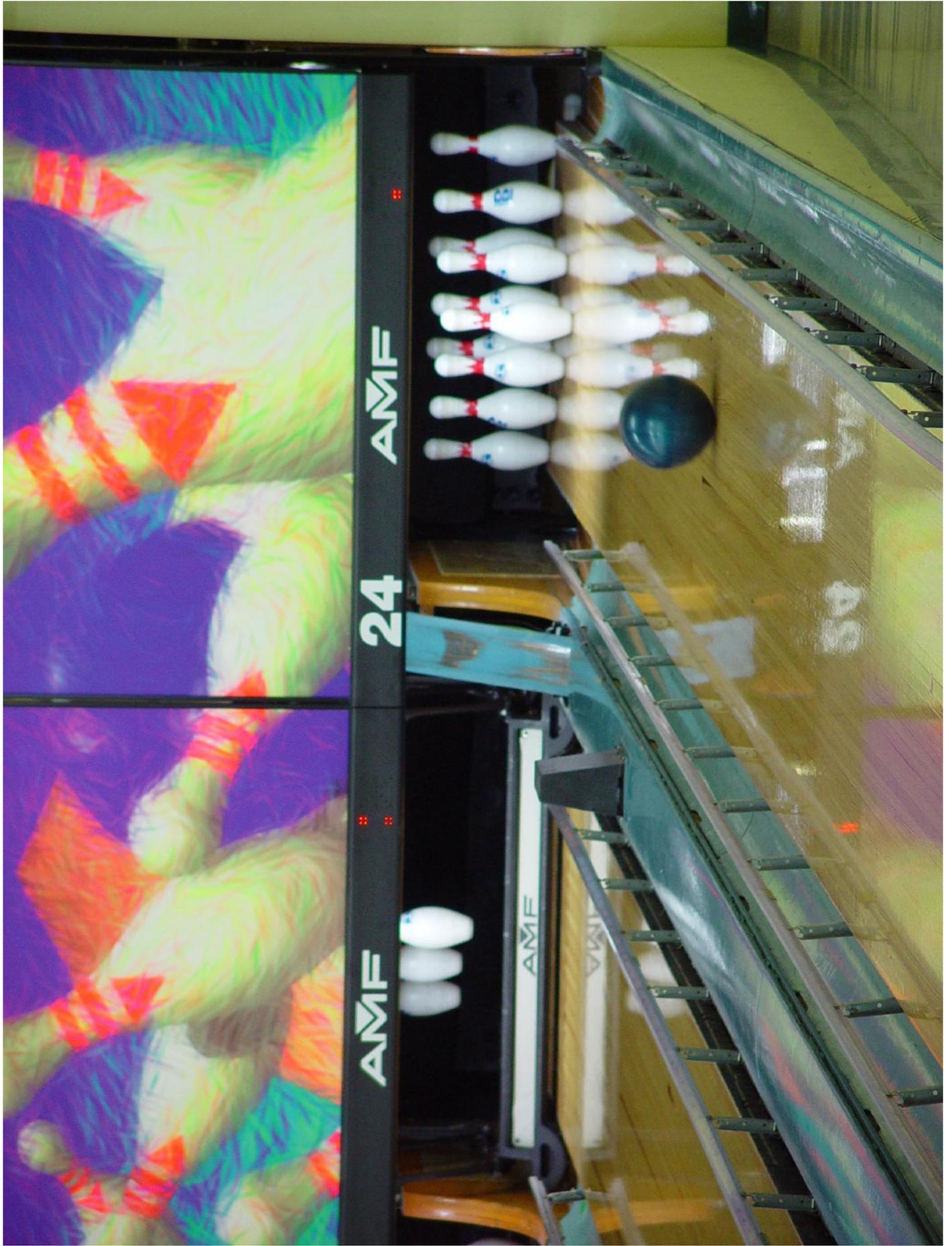




























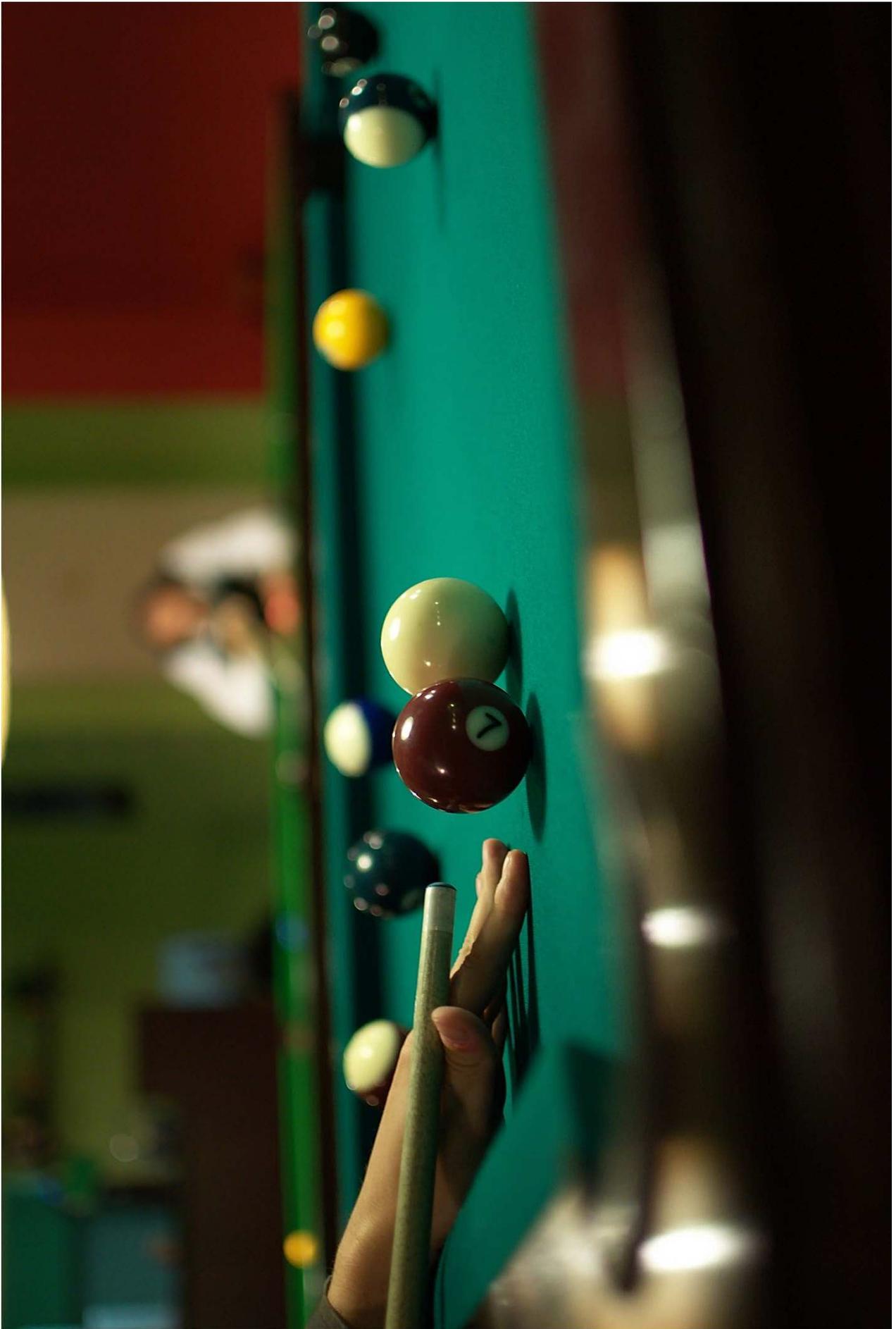


















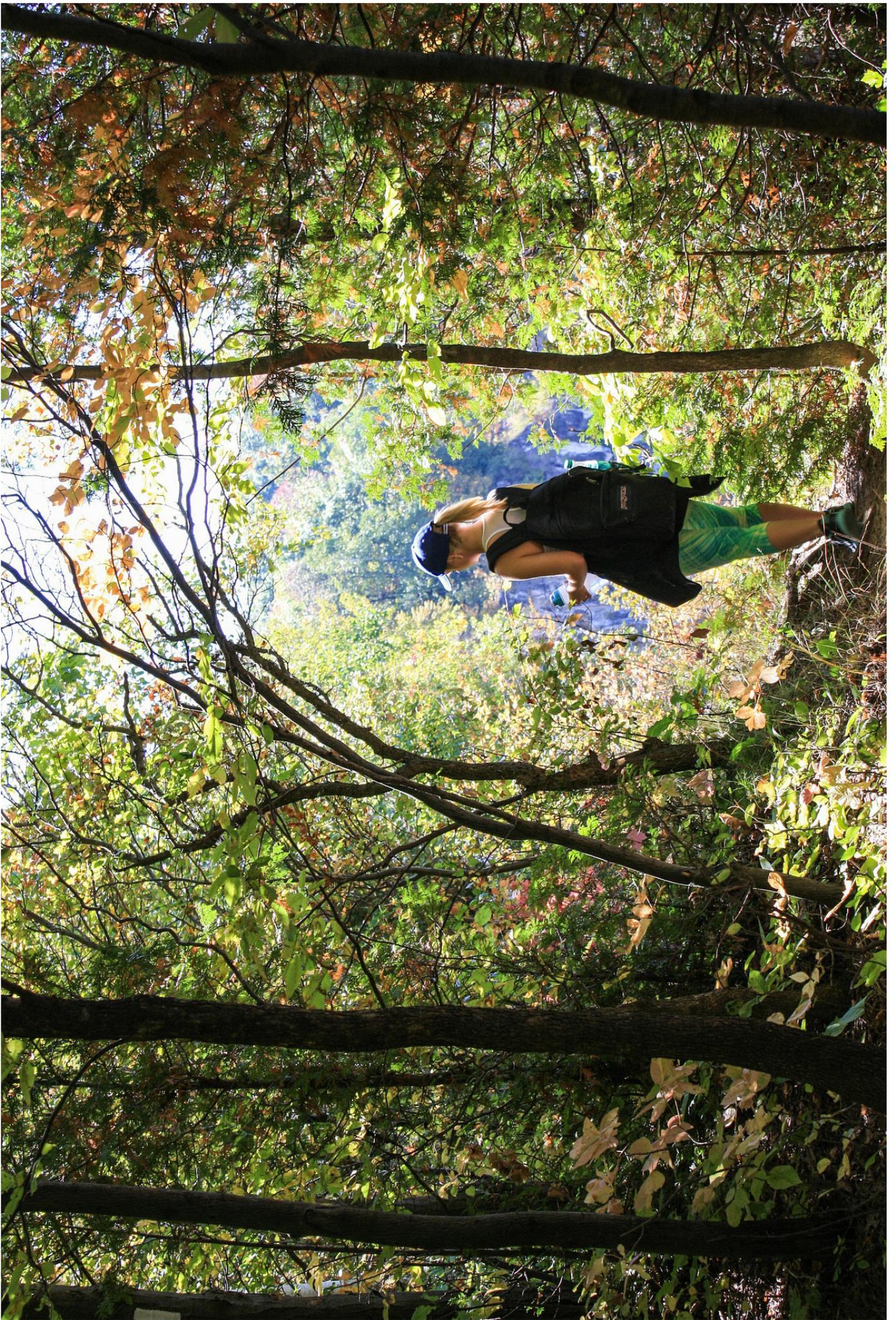




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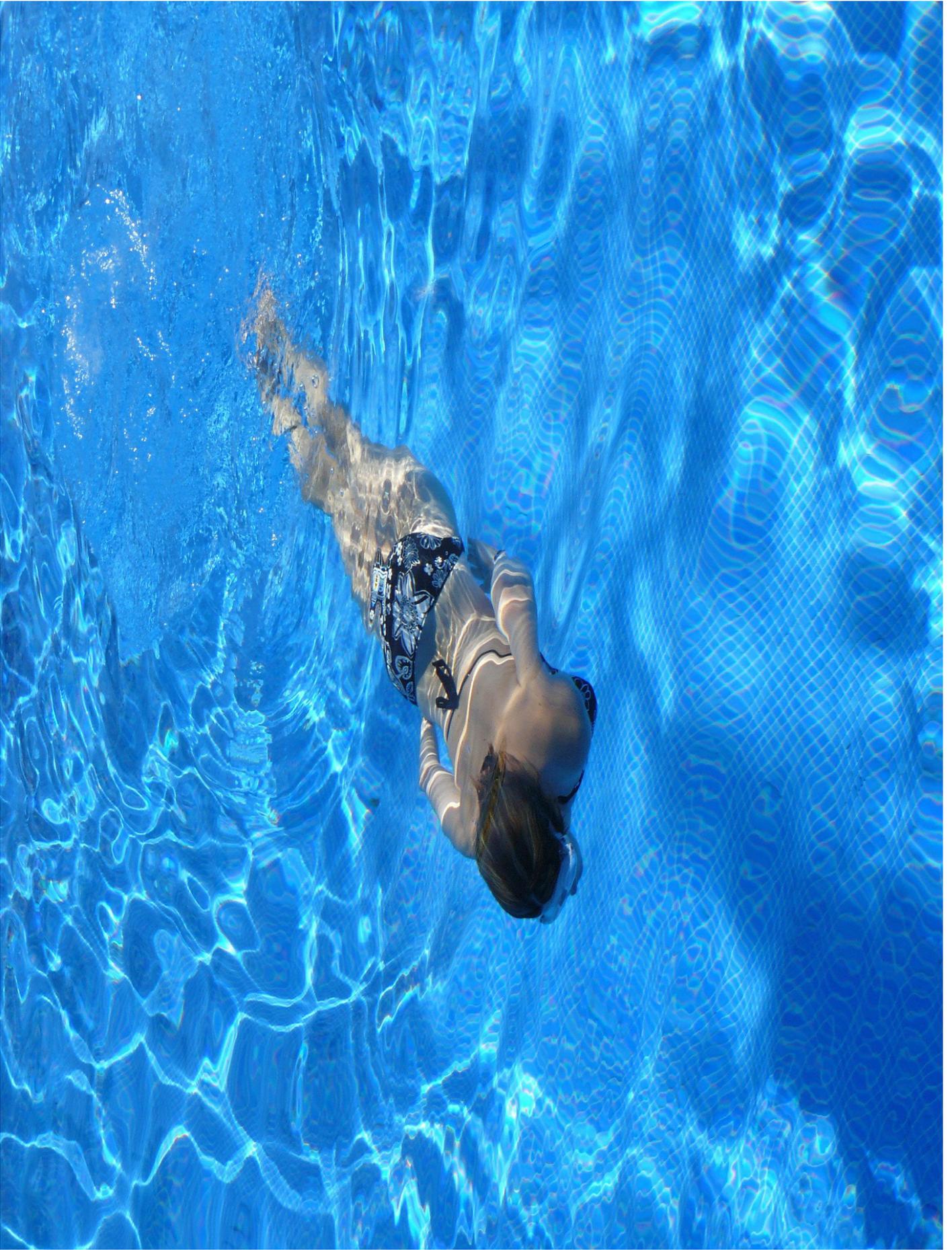












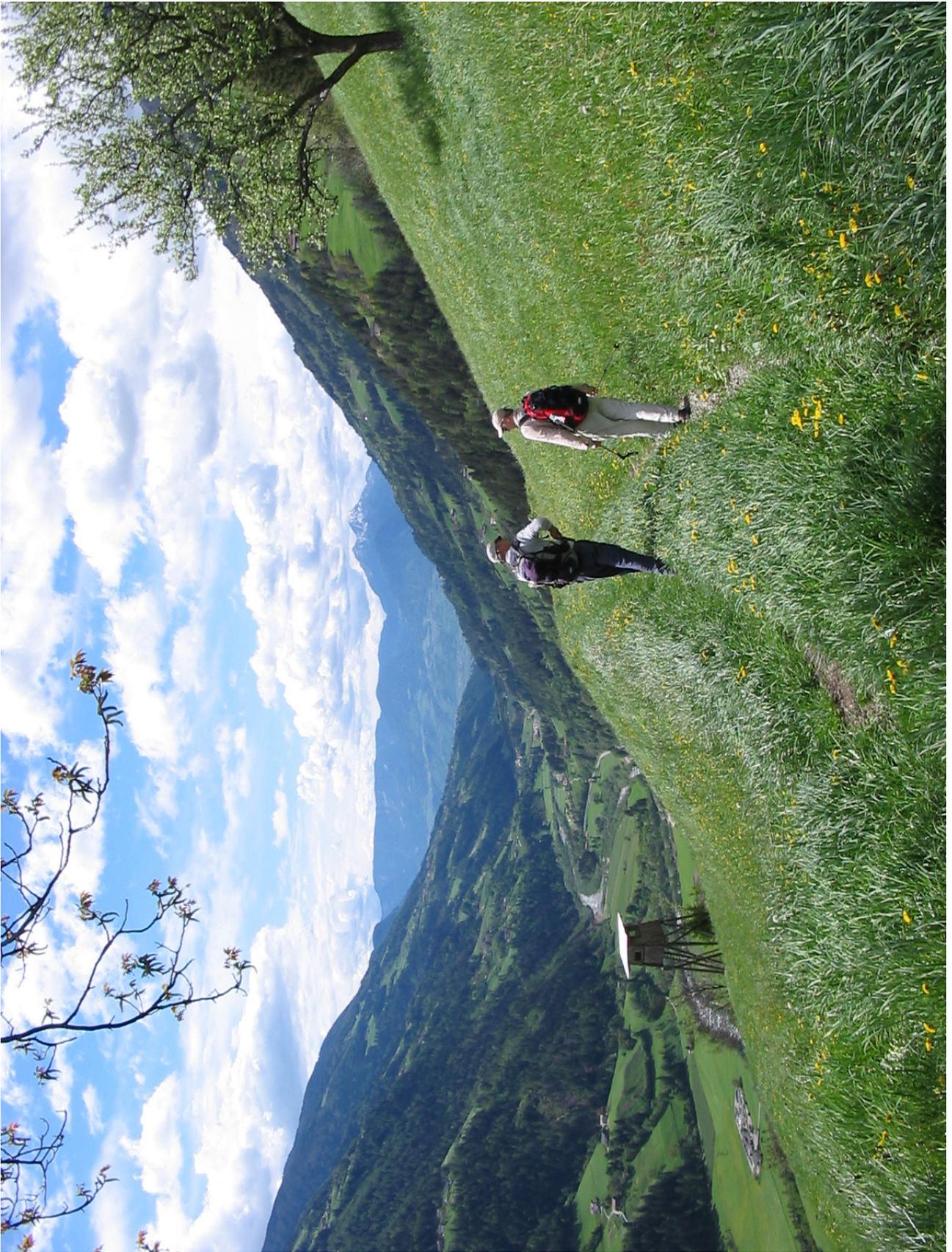










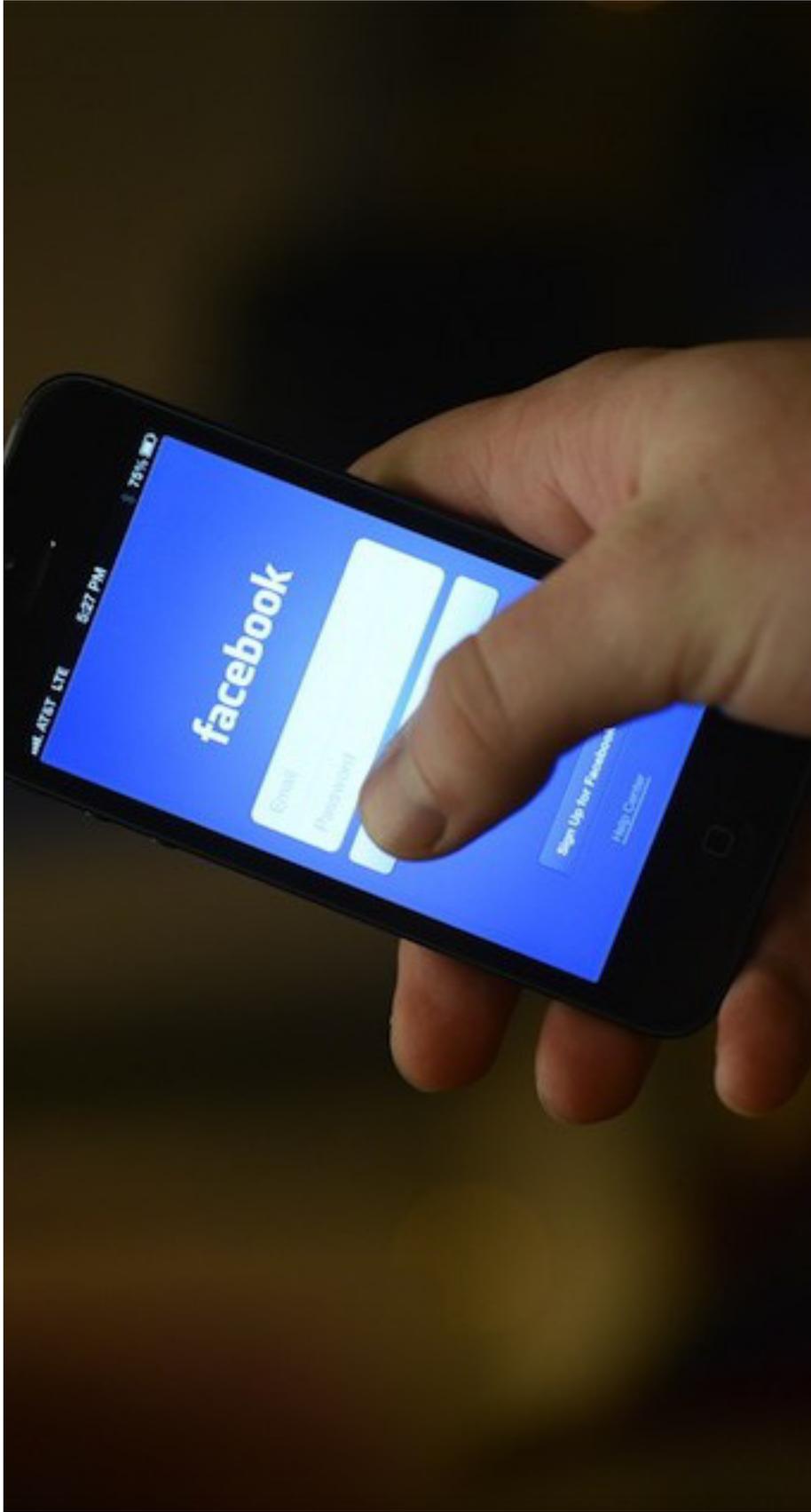












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