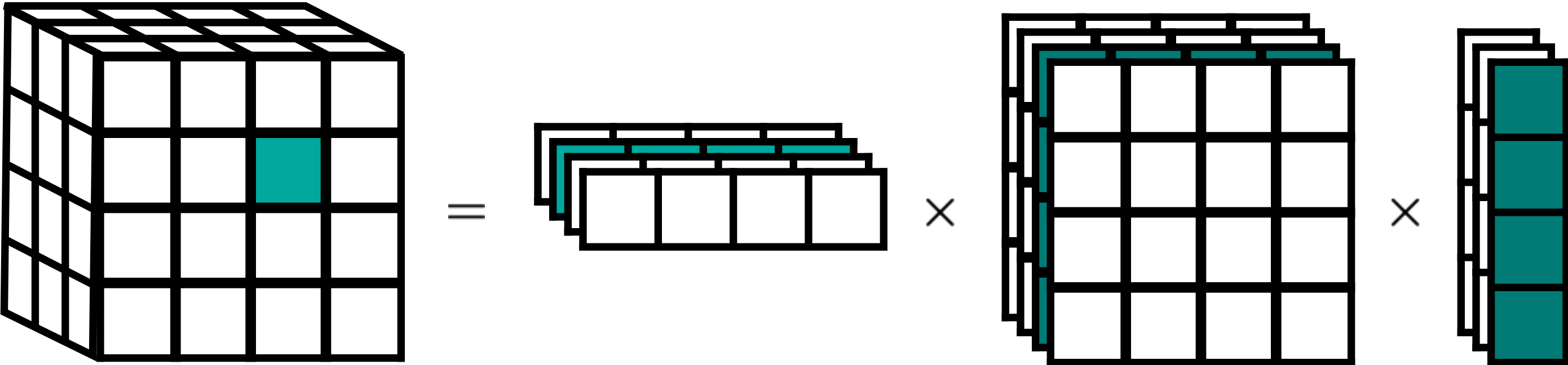$T \in \mathbb{R}^{4 \times 4 \times 3}$

Tensor Train Decomposition

$$T(3, 2, 1) = G_1(3) \times G_2(2) \times G_3(1)$$