

Diagram illustrating the approximation of matrix W_m as a product of matrices U_r , Σ_r , and V_r^T .

$$W_m \approx U_r \Sigma_r V_r^T$$

Matrix Σ_r is an $r \times r$ matrix, shown as a small square with orange diagonal elements.

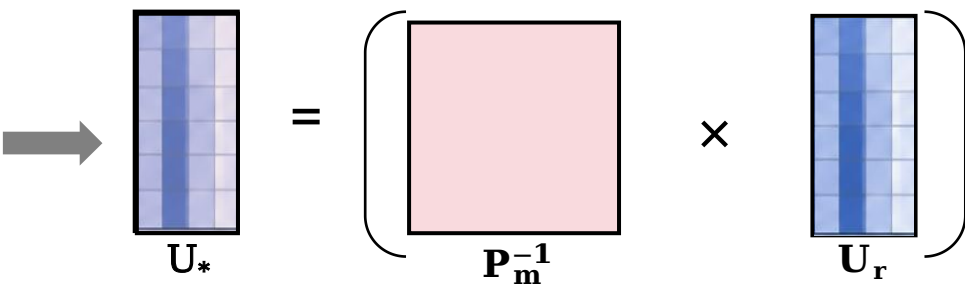


Diagram illustrating the approximation of matrix U_* as a product of matrix P_m^{-1} and matrix U_r .

$$U_* = P_m^{-1} U_r$$

A large gray arrow points from the top row to this row.

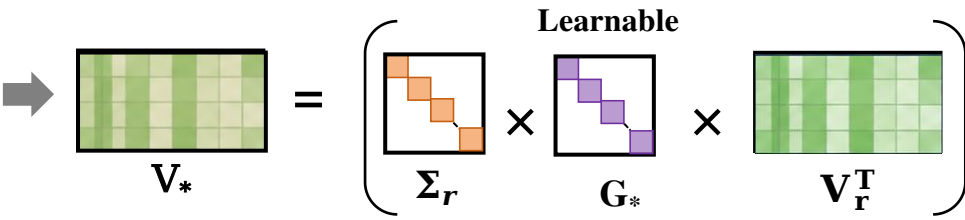


Diagram illustrating the approximation of matrix V_* as a product of matrices Σ_r , G_* , and V_r^T .

$$V_* = \left(\Sigma_r \times G_* \times V_r^T \right)$$

A large gray arrow points from the top row to this row. The word "Learnable" is placed above the G_* matrix, indicating it is a learnable component.