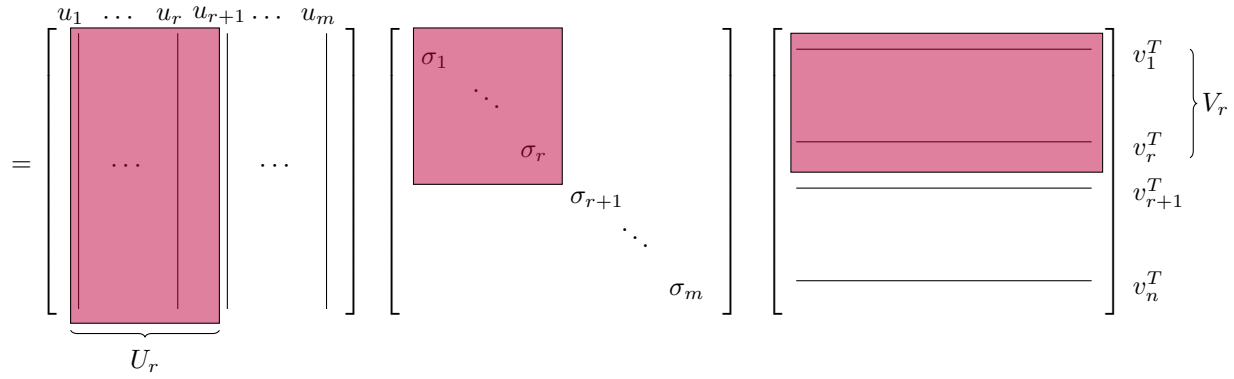
$A = U\Sigma V^T$


u_1 $\cdots$ u_r u_{r+1} $\cdots$ u_m
$=$
σ_1
σ_r
σ_{r+1}
σ_m
v_1^T
v_r^T
v_{r+1}^T
v_n^T
V_r
U_r