$$\mathbf{A}_{m \times n} = \mathbf{U}_{m \times m} \times \mathbf{\Sigma}_{m \times n} \times \mathbf{V}_{n \times n}^{T}$$

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$$\mathbf{\Sigma}_{m \times n} \times \mathbf{V}_{n \times n}^{T}$$

$$\mathbf{\Sigma}_{m \times n} \times \mathbf{V}_{n \times n}^{T}$$

$$\mathbf{D}_{m \times n} \times \mathbf{V}_{n \times n}^{T}$$

$$\mathbf{D}_{m \times n} \times \mathbf{D}_{m \times n}$$

$$\mathbf{D}_{m \times n} \times \mathbf{D}_{m \times n}$$