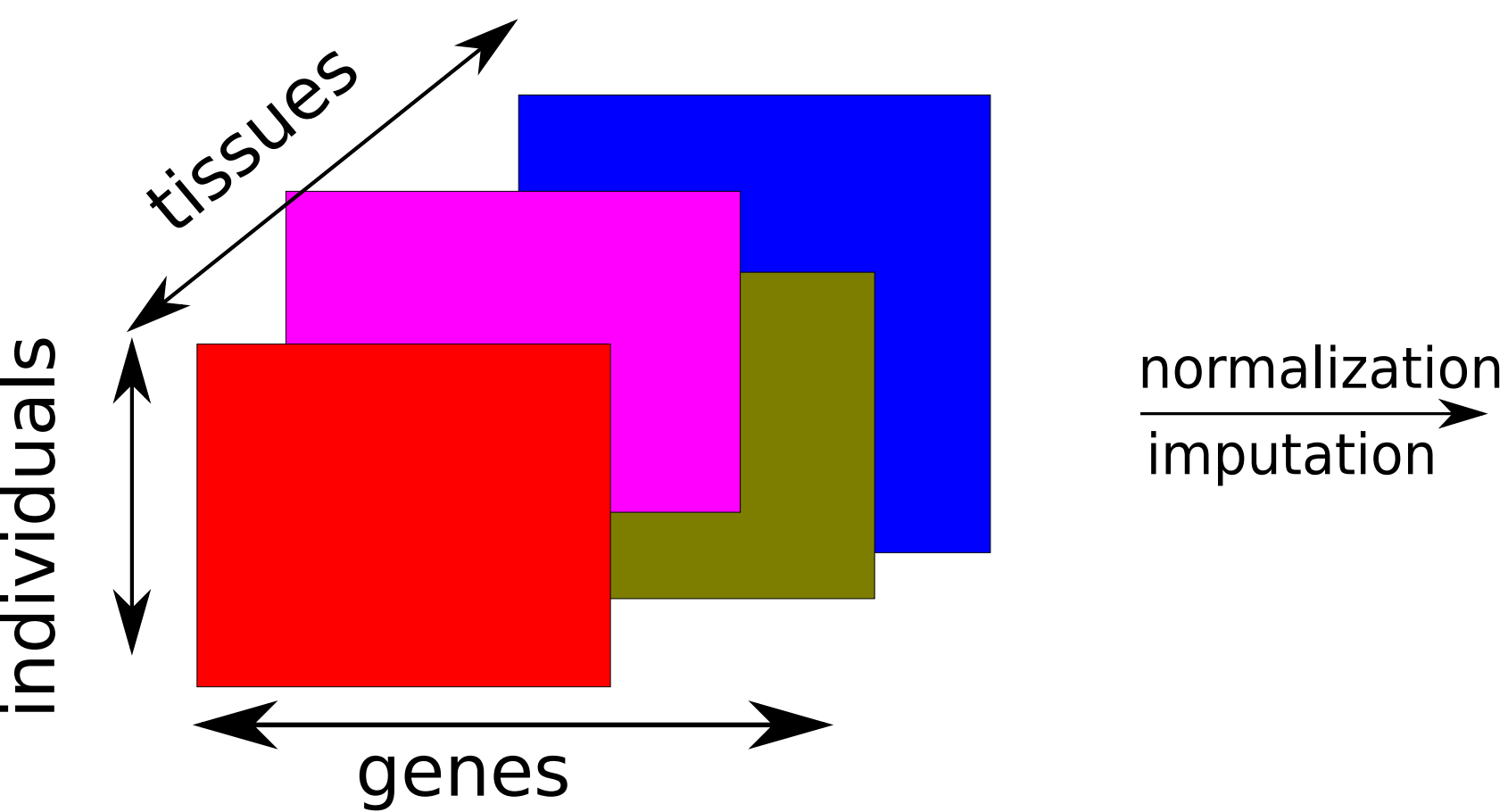
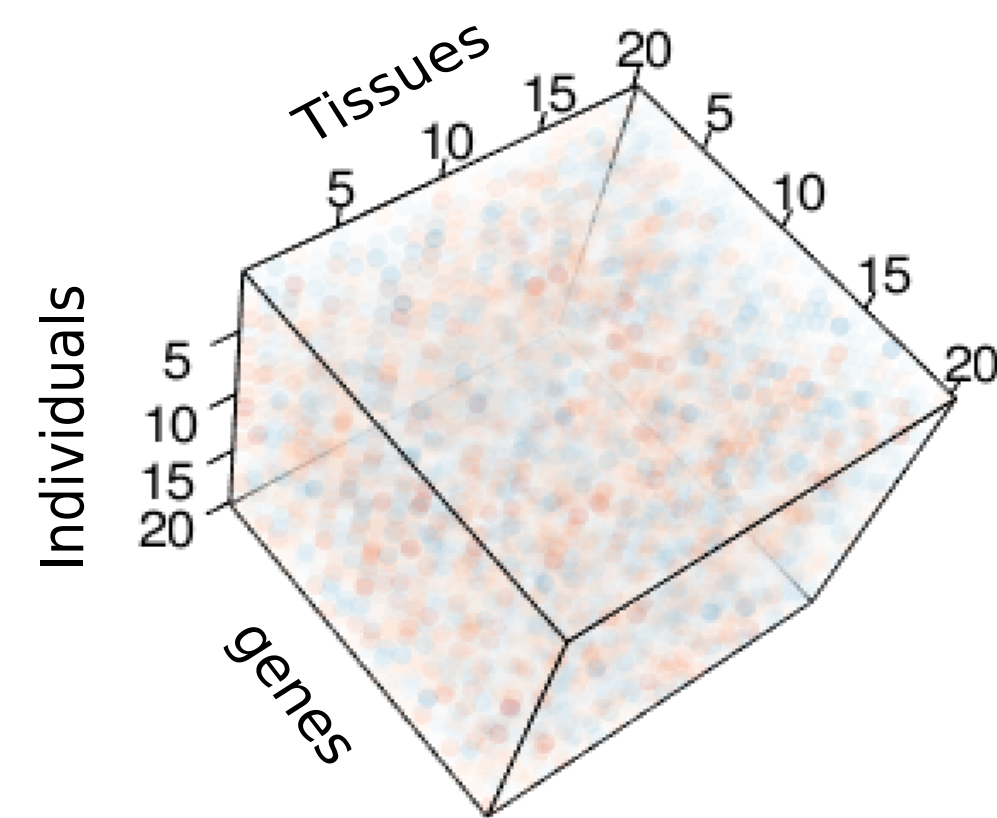


a. Gene expression data



b. Input tensor

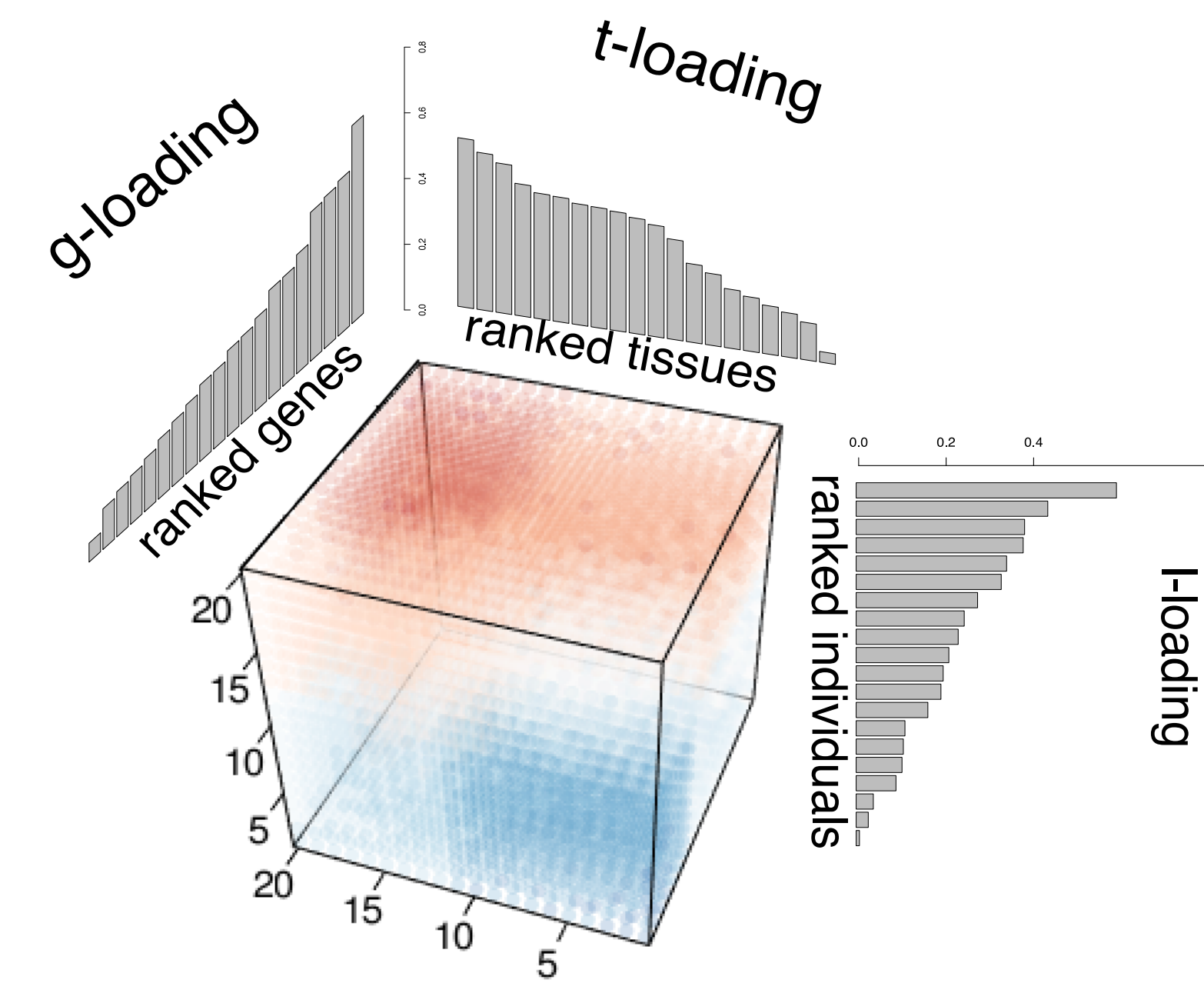


c. Tensor decomposition

$$\mathcal{Y} \approx \lambda_1 \mathbf{I}_1 \mathbf{T}_1 \mathbf{G}_1 + \lambda_2 \mathbf{I}_2 \mathbf{T}_2 \mathbf{G}_2 + \dots + \lambda_R \mathbf{I}_R \mathbf{T}_R \mathbf{G}_R$$

Diagram illustrating the tensor decomposition of the input tensor \mathcal{Y} into a sum of rank-1 tensors, each consisting of a core tensor \mathbf{I}_i and two factor matrices \mathbf{T}_i and \mathbf{G}_i .

d. Output three-way cluster



e. Characterization of the identified three-way cluster

