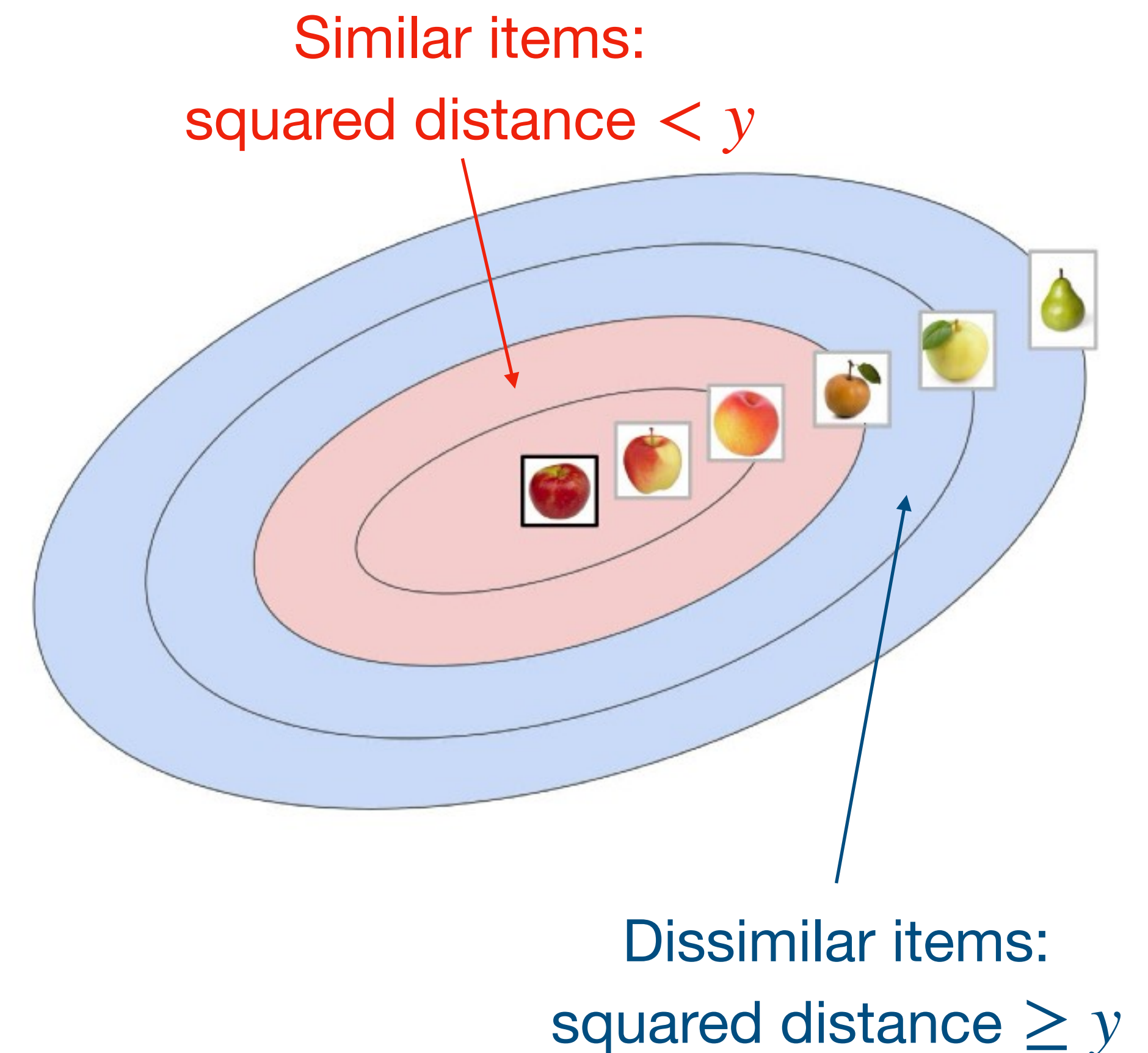


Distance-based perception model

- High-dimensional feature space \mathbb{R}^D , where each point corresponds to an item
- Perception governed by a low-rank Mahalanobis metric $\mathbf{M} \in \mathbb{R}^{D \times D}$, $\text{rank}(\mathbf{M}) = r, r \ll D$
- If two items are squared distance $< y$ apart under \mathbf{M} , they are considered “similar”
- **Goal:** Estimate \mathbf{M} from PAQ responses



PAQs for metric learning

