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Basic Similarity

Many similarities based on feature dot products:

$$sim(x, x') = f(x) \cdot f(x') = \sum_{i} \underbrace{f_i(x) f_i(x')}_{\mathsf{K}(\mathsf{k}_1 \mathsf{k}')}$$

If features are just the pixels:

$$sim(x, x') = x \cdot x' = \sum_{i} x_i x'_i$$

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Note: not all similarities are of this form









