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Chromadb: Introduction and Installation

- 1 Vector databases store data as vectors (embeddings), enabling fast and efficient similarity searches across high-dimensional spaces.
- 2 With Gen Al revolution, many vector databases have come up. Here are the few popular ones: Chromadb (open source), Milvus (opensource), Pinecone, Qdrant

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Euclidean and Cosine Distance

- **1** Euclidean distance measures the straight-line distance between two points in a vector space, reflecting absolute similarity.
- Cosine distance evaluates the angle between two vectors, focusing on their orientation rather than magnitude.
- **3** Euclidean distance is sensitive to vector magnitude, while cosine distance emphasizes direction, making it ideal for text and document similarity.
- 4 Choosing between Euclidean and cosine distance depends on the task – Euclidean for dense embeddings and cosine for sparse or high-dimensional data.