

Even better: use N-dimensions

- **Neural networks choose the dimensions for us.**
- **Based on the labelled training data (think “cat” vs. “dog”), neural networks are able to “embed” objects (words, images, video, audio) into N-dimensional space.**
- **We can represent embeddings as vectors:**
 - **$[a_0, a_1, a_2, \dots, a_N]$**
- **Similar objects get embedded in similar locations,**
- **This gives us the ability to do *semantic search*, i.e., find things that have similar meaning.**

Embeddings In Action

