Lecture: Word Embeddings

✓ **Video:** Week Introduction
1 min

✓ **Video:** Overview
2 min

✓ **Reading:** Overview

✓ **Video:** Basic Word Representations
3 min

✓ **Reading:** Basic Word Representations
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▷ **Video:** Word Embeddings
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✓ **Reading:** Word Embeddings
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▷ **Video:** How to Create Word Embeddings
3 min

✓ **Reading:** How to Create Word Embeddings?
4 min

▷ **Video:** Word Embedding Methods
3 min

✓ **Reading:** Word Embedding Methods
4 min

▷ **Video:** Continuous Bag-of-Words Model
4 min

Evaluating Word Embeddings: Intrinsic Evaluation

Intrinsic evaluation allows you to test relationships between words. It allows you to capture semantic analogies as, *"France" is to "Paris" as "Italy" is to <?>* and also syntactic analogies as *"seen" is to "saw" as "been" is to <?>.*

Ambiguous cases could be much harder to track:

⚡ Ambiguity
"wolf" is to "pack" as "bee" is to <?> → swarm? colony?

Here are a few ways that allow to use intrinsic evaluation.

Test relationships between words

- Analogies

- Clustering

- Visualization