

JACCARD DISTANCE

Applies to sets (like word occurrence)

- **Sentence A:** "I like chocolate ice cream."
- set A = {I, like, chocolate, ice, cream}
- **Sentence B:** "Do I want chocolate cream or vanilla cream?"
- set B = {Do, I, want, chocolate, cream, or, vanilla}

$$1 - \frac{A \cap B}{A \cup B} = 1 - \frac{\text{len}(\text{shared})}{\text{len}(\text{unique})}$$

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- set A = {**I**, like, **chocolate**, ice, **cream**}
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- set B = {Do, **I**, want, **chocolate**, **cream**, or, vanilla}

$$1 - \frac{A \cap B}{A \cup B} = 1 - \frac{3}{9}$$