

# The Vagueness of Vagueness in Noun Phrases

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What constitutes a “sentiment”?

How many nations are “many”?

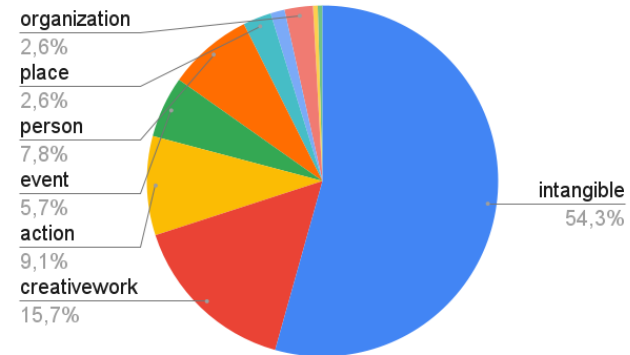
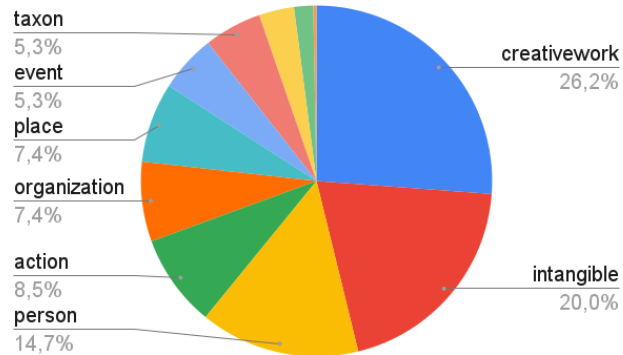
“An anti-tobacco sentiment grew in many nations from the middle of the 19th century.”

Are the 1830’s part of the middle of the century?

How to use this sentence for the construction of a KB?

# What is the nature of vague entities?

→ A **manual study** on Wikipedia articles



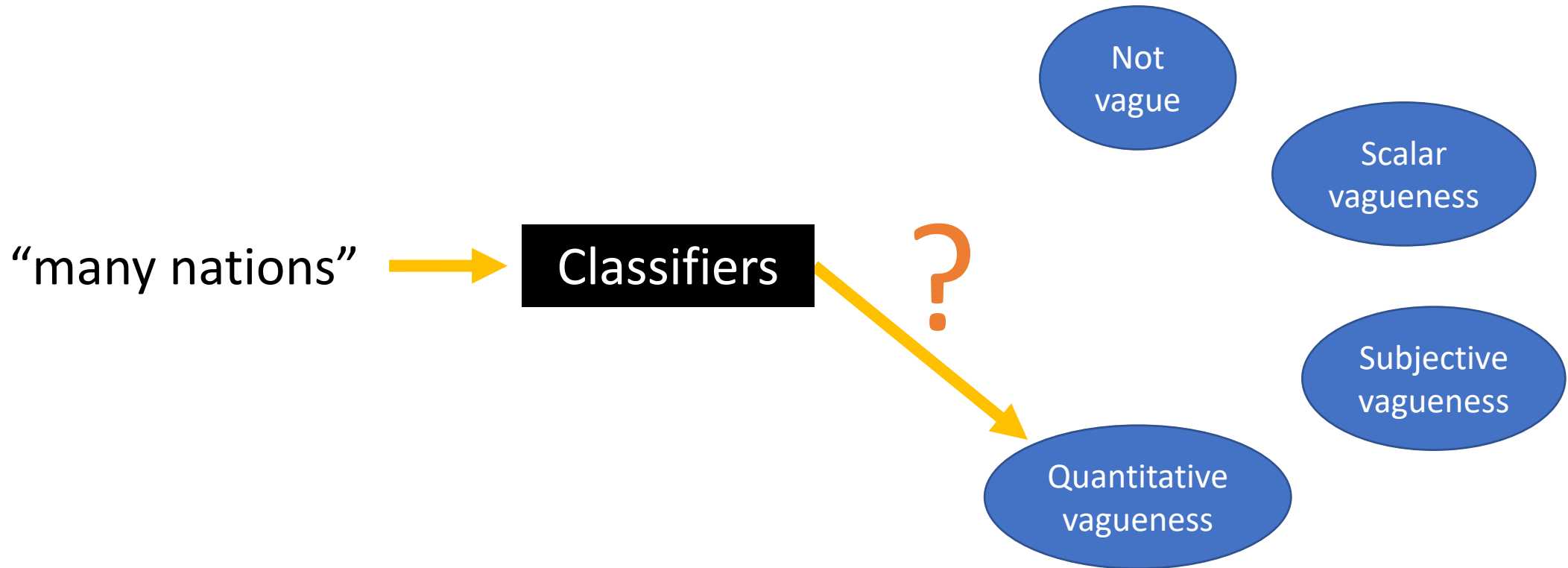
→ A new **taxonomy** of vagueness

25% of noun phrases are vague

# How can we detect vague entities?

→ A literature **review**

→ **Classifier** trained on our dataset to detect and classify vagueness



# How can we model and reason with vague entities in a KB?

→ A literature review

The image shows a screenshot of a Zotero bibliography list. The list contains numerous entries with columns for Title, Author, Date, Publication, Date of input, and Class. The entries are related to semantic networks, knowledge graphs, and fuzzy logic. A blue arrow points from the bottom of the list towards the equation below.

$$City(x) \wedge Located(x, Taiwan) \rightarrow_{Q_{Most}} is(x, Major)$$

<https://phparis.net/posts/vagueness/>

