**What is it?** This tool helps you quickly find the most relevant dictionary definitions (called “glosses”) for any sentence or phrase you enter. It uses a popular text analysis technique called TF-IDF to identify which definitions are closest in meaning to your input.

**How does it work?**

1. The tool reads a dictionary file full of definitions, cleans and processes the text to highlight important words.
2. It creates a TF-IDF vector for each definition, which emphasizes meaningful words and downplays common ones.
3. When you type a sentence or phrase, the tool converts it into its own TF-IDF vector.
4. It compares your input vector to every definition vector and ranks the definitions based on similarity.
5. You receive a list of the top matching definitions, each with a score showing how closely it matches your sentence.
6. If you prefer, you can also search the dictionary directly by keywords to find definitions containing specific words.
7. For definitions without clear names or labels, the tool automatically generates simple placeholder labels to help you distinguish between them.

**Why is this useful?**

* **For linguists and language experts:** Explore how different sentences relate to dictionary meanings and analyze word senses more easily.
* **For language learners and teachers:** Find the right definitions for challenging phrases and deepen your understanding of new words.
* **For developers and NLP researchers:** Use it as a backend to build smarter language applications that connect sentences to definitions.
* **For data analysts:** Quickly compare many text inputs to dictionary entries using efficient mathematical techniques.

**Additional Notes:**

* To support different languages, the tool requires a new dictionary file for each language.
* It only matches sentences to glosses within the same language.

**In short:** This tool makes it easy to connect any sentence with the most relevant dictionary explanations by comparing their key words. It’s fast, smart, and user-friendly — perfect for anyone curious about language or building language-related applications.