CREA_library Methods

Method	Description	Parameters	Output
CREA_library()	Create an instance of CREA_library	dict	None
<pre>get_all_vectors()</pre>	Get all vectors from dataset.	None	dict: All word vectors
get_vector(word)	Gets the vector for a specific word.	word (str): Target word	list or None: Word vector if found
<pre>get_vectors(words)</pre>	Gets the vectors for a list of words.	words (list): List of words	dict: Word- vector pairs for found words
select_cols(words, columns)	Selects specific columns from word vectors.	words (list), columns (list)	dict: Words with selected columns
cosine_similarity(vec1, vec2)	Computes cosine similarity between two words or vectors.	vec1 (str or list), vec2 (str or list)	float: Cosine similarity score
top_n_similar(word, n=5)	Finds the top n most similar words to a given word. Default 5	word (str), n (int, default=5)	list: Top n most similar words with scores
strip(file_name)	Removes category names from a JSON file, returning float-only vectors.	file_name (str): JSON file path	list: Processed word vectors
<pre>get_raw(file_name)</pre>	Extracts raw CREA dataset into a CSV file.	file_name (str): JSON file path	Writes to results.csv
<pre>load_word_from_json(file_name)</pre>	Loads a dictionary of word vectors from a JSON file.	file_name (str): JSON file path	dict: Word vectors
calculate_averages(file_name)	Calculate the averages of the CREA dataset	file_name (str): CSV file path	df: Averages calculated from raw scores

```
strip is useful if the vectors have the category tags with them. For example:
```

This can then be initialized by CREA_library. Now the remaining methods can be used. Examples:

```
stripped_dict = CREA_library.strip('file_path.json')
word_dict = CREA_library(stripped_dict)
word_dict.get_all_vectors()
single_word = word_dict.get_vector('word1')
multiple_words = word_dict.get_vectors(['word1', 'word2', ..., 'wordn'])
specific_cols = word_dict.select_cols(['word1'], [0, 1, 2])
similar = word_dict.cosine_similarity('word1', 'word2')
top_similar = word_dict.top_n_similar('word1', 5)
```

If getting data from psychopy and getting raw df or calculate averages

```
fname = 'results.json'
CREA_library.get_raw(fname)

CREA_library.calculate_averages('results.csv')
```

Exports data from psychopy named 'results.json' to a csv file that it updated with each new output of the experiment