The numbers you see in the results represent **ratios multiplied by 100 to avoid fractions** (*equivalent to 10^2 in python – creating values as percentages of word occurrences per document*), not actual count of words. These values provide a standardized way of interpreting frequency of related terms across documents and years.

In simple words, I use a single formula for all calculations: $r = \boldsymbol{ROUND}\left(\frac{x}{y}, 2\right) \times \mathbf{10^2}$

- Let **x** be the count of related terms. *(Specific terms from categories such as economic reforms, environmental policies, social policies, and gender-related issues defined in "helper.py")*
- Let **y** be the number of entries in a year. *(Each entry represents a sentence from the findings and recommendations table)*
- Let **r** be the trend term ratio for the year.

## 1. Calculating Trends in a Document:
- **Step 1:** For each document, the number of related terms is counted.
- **Step 2:** This count is then divided by the total number of entries in the document.
- **Result:** The result is the **"trends_in_document"** ratio, which indicates the frequency of related terms per entry within that document.

## 2. Calculating Trends in a Year:
- **Step 1:** For each year, the **"trends_in_document"** ratios are calculated for all documents within that year.
- **Step 2:** These ratios are then summed up for the entire year.
- **Step 3:** This sum is divided by the total number of documents for that year.
- **Result:** The resulting **"trends_in_year"** ratio provides a measure of how frequently related terms appeared across all documents in that year, normalized by the number of documents.

## 3. Creating the Time Series (TS) Graph:
- **X-Axis:** Represents the years.
- **Y-Axis:** Represents the **"trends_in_year"** ratios.

## 4. Creating the Bar Chart:
- **Step 1:** The **"trends_in_document"** ratio is calculated for each document as described earlier.
- **Step 2:** These ratios are summed across all documents and divided by the total number of documents.
- **Result:** The value plotted on the x-axis of the bar chart represents the sum of average frequency of related terms across all documents.