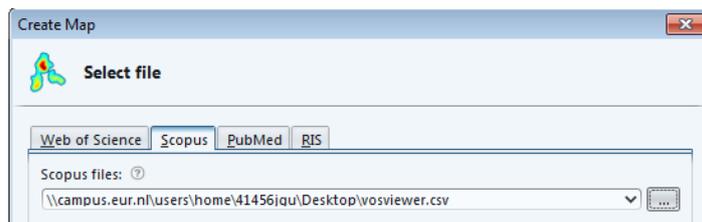


VOSviewer

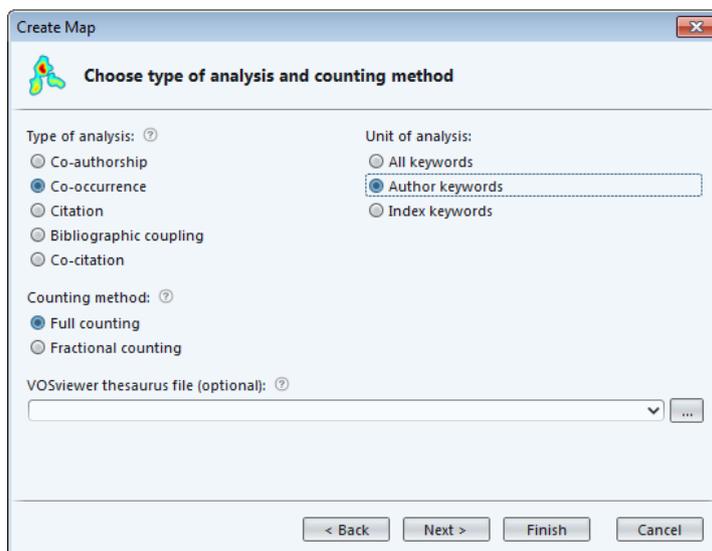
1. Go to www.vosviewer.com.
2. You can download the program or open it directly from the website. Here we use the second option: click **Launch VOSviewer**. Follow the directions on the screen. If you get a JAVA-warning, select 'Later'. VOSviewer opens with a big blank screen.
3. Click **Create** on the left side of the screen.
4. Choose the option in the middle: **Create a map based on bibliographic data**. Click **Next**.

VOSviewer will lead you through a number of steps. We advise you to write down your choices - that will help to recreate a map later.

5. Select File: Open the tab **Scopus** and browse to the downloaded CSV file. Click **Next**. Loading the file can take some time.



6. Choose type of analysis and counting method: Choose as 'type of analysis' **Co-occurrence**, as 'unit of analysis' **Author Keywords** and as 'counting method' **Full counting** (this means that every keyword counts has the same weight, regardless of the number of keywords given to a particular article). We don't have a thesaurus file yet, you can leave that option empty. Click **Next**.



7. Choose threshold: How many times does a keyword have to occur in your dataset to be used in the analysis? When you change the number of occurrences, the number of keywords in the row will change accordingly. Make a choice, write it down and click **Next**.
8. Choose number of keywords: for all keywords a relevance score will be calculated. In this step you enter the number of keywords you want to see in your map. Adjust the number at 'Number of keywords to be selected', write down your choice and click **Next**.
9. Verify selected keywords: the list of keywords is generated. You can scroll through the list and unmark terms. Click **Finish**.
10. The map is created.

Tips for VOSviewer

- In the map you will often see terms in singular and plural form or with/without a hyphen (-), etc. You can merge these keywords by using a thesaurus file (in the step Choose type of analysis and counting method). Create a two-column table in Excel. Name the first column **label** and list the keywords you want to delete. Name the second column **replace by** and enter the replacement keywords. If you leave the cell in the column 'replace by' empty, the keyword in the column 'label' will be removed.

	A	B	C
1	label	replace by	
2	cyber-bullying	cyberbullying	
3	cyber bullying	cyberbullying	
4	bystander	bystanders	
5			

Save this file as a text-file (tab delimited). You can upload the file in the step 'Choose type of analysis and counting method'.

- If you want to save a picture of the map, click **Screenshot** on the left side of the screen and choose **Save to File**.
- You can adjust the clustering: under Analysis > Clustering the default clustering resolution is 1.00. When you enlarge the resolution (for example 1.20), you get more clusters. With a smaller value, you get less clusters.
- You can see the keywords under the tab Items.
- Click Save > Map to download the list of keywords in the map.

Want to try more?

- Create a citation map on the journal or author level: Which journals or authors within your set of publications cite each other?

Questions?

- Please contact the University Library via informationskills@ubib.eur.nl. You can also contact us if you want to know how to use data from another database as input in VOSviewer.