M1 MSc DataScience - Methods and tools for technical and scientific writing

Tools for managing references

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Types of scientific articles

- Journal publications
  - Focused on extensive discussion of original results

  or
  - Survey of state-of-the-art: comprehensive review of the literature
- News Articles / Magazines
  - Provide a brief overview of scientific findings for a general audience
  - Useful when you are searching for the latest scientific research
- Book chapters
  - Presentation and discussions on a topic making part of a big picture (the whole book)
  - Each chapter might be written by an independent author

Types of scientific articles

- Papers in conferences
  - Original research presented at conferences
  - Useful when you are looking for recent research in the scientific literature
  - (main) Types of contributions:
    - Full papers (long in extension, more prestigious, high selection)
    - Short Papers/Late breaking results (short contributions)
    - Poster/demonstrations (maybe part of the main / adjunct proceedings)
- Workshop papers
  - Brief descriptions of ongoing work
  - Some workshops might assimilated to small conferences whilst other workshops are focused on joint work and only require a position paper
  - Position paper: a brief statement (1-2 pages) describing an opinion

Peer Review Process

324311

WILEY

Common criteria selection

- Fit for the target audience/scope of journal/conference
- Originality of the work
- Quality of the results
- Review of previous work
  - State-of-the-art, related work, previous work, benchmark, etc.
  - Proper citation of relevant work
- Quality of the text
  - Language and structure
- Format of the paper

Terminology for references

- Citation
  - A short notice recognizing the source of information
  - A practice for referencing the work of others in the text. Ex:
    - “As discussed by Carrey et al. [10]…”
    - “In previous work (Carrey et al;, 1995)…”
- References
  - A list of publication cited in a paper
  - Last section of a scientific paper (before annex if any)
  - Must include details for retrieving the original source of information cited in the text
  - Numbered or Ordered by alphabetic order Ex.
    - [1] James Carrey, Yin-In Chen, and Antonio Calado. Artistic paths… 1995..”
    - James Carrey, Yin-In Chen, and Antonio Calado. (1995) Artistic paths…”
- Bibliography
  - List of documents/publications relevant
  - A list of sources not cited in the publication but relevant for preparing the work

Referencing style

- The Vancouver system: used in medical and scientific journals
- The Harvard system
- Chicago manual of style
- American Psychological Association (APA): social sciences
- American Medical Association (AMA)
- Modern Language Association : literature and Arts
- …

Example of citation style

Harvard style

Amo, C., Elices, N. & Huertas, D., 2012. Differential diagnosis by EEG of dissociative status versus nonconvulsive status epilepticus. *Actas españolas de psiquiatría*, 40(2), pp.93–96.

Banerjee, P. et al., 2002. Diastolic heart failure: neglected or misdiagnosed? *Journal of the American College of Cardiology*, 39(1), pp.138–141.

Shah, R.P., 2001. Diastolic pressure alternans: a new sign in congenital absence of the pericardium. *Singapore medical journal*, 42(2), pp.78–79.

Vancouver style

1. Amo C, Elices N, Huertas D. Differential diagnosis by EEG of dissociative status versus nonconvulsive status epilepticus. Actas Esp Psiquiatr. 2012 Apr;40(2):93–6.

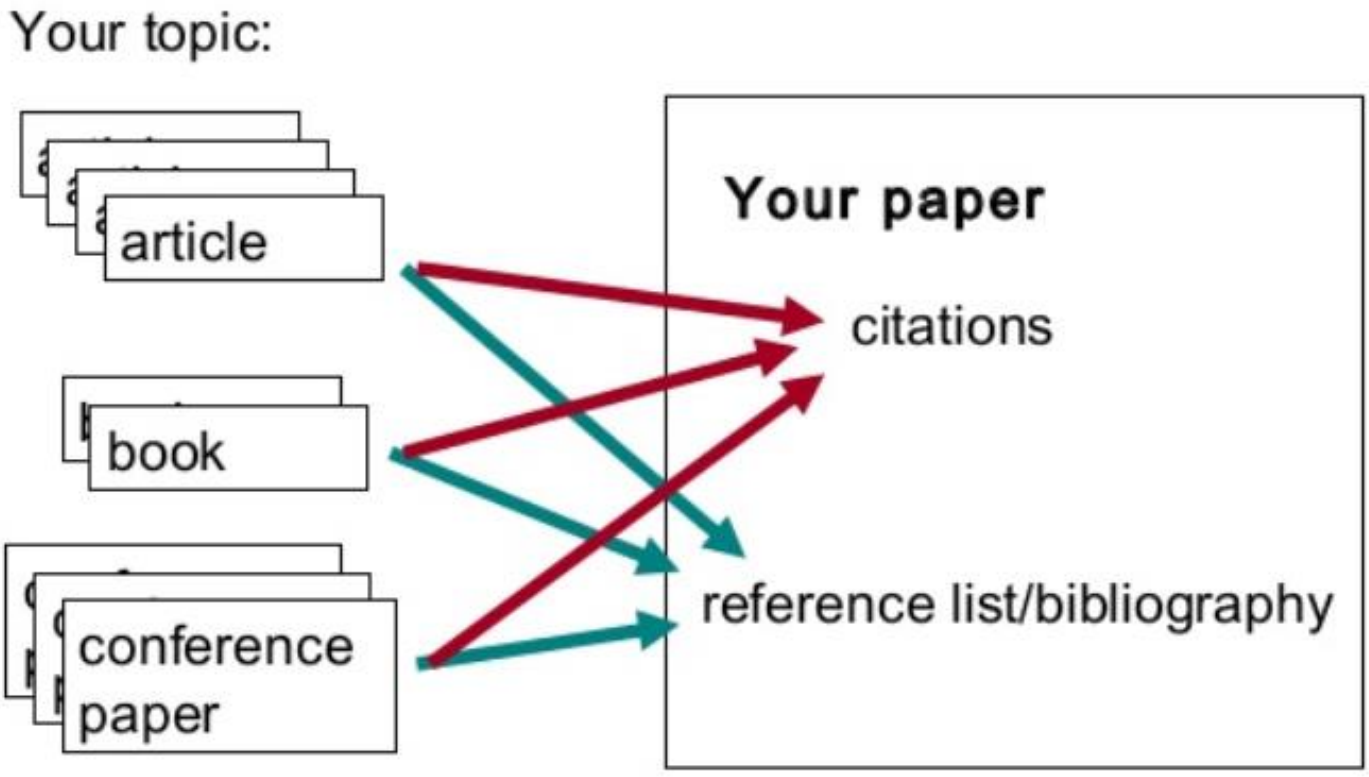
2. Banerjee P, Banerjee T, Khand A, Clark AL, Cleland JGF. Diastolic heart failure: neglected or misdiagnosed? J Am Coll Cardiol. 2002 Jan 2;39(1):138–41.

3. Shah RP. Diastolic pressure alternans: a new sign in congenital absence of the pericardium. Singapore Med J. 2001 Feb;42(2):78–9.

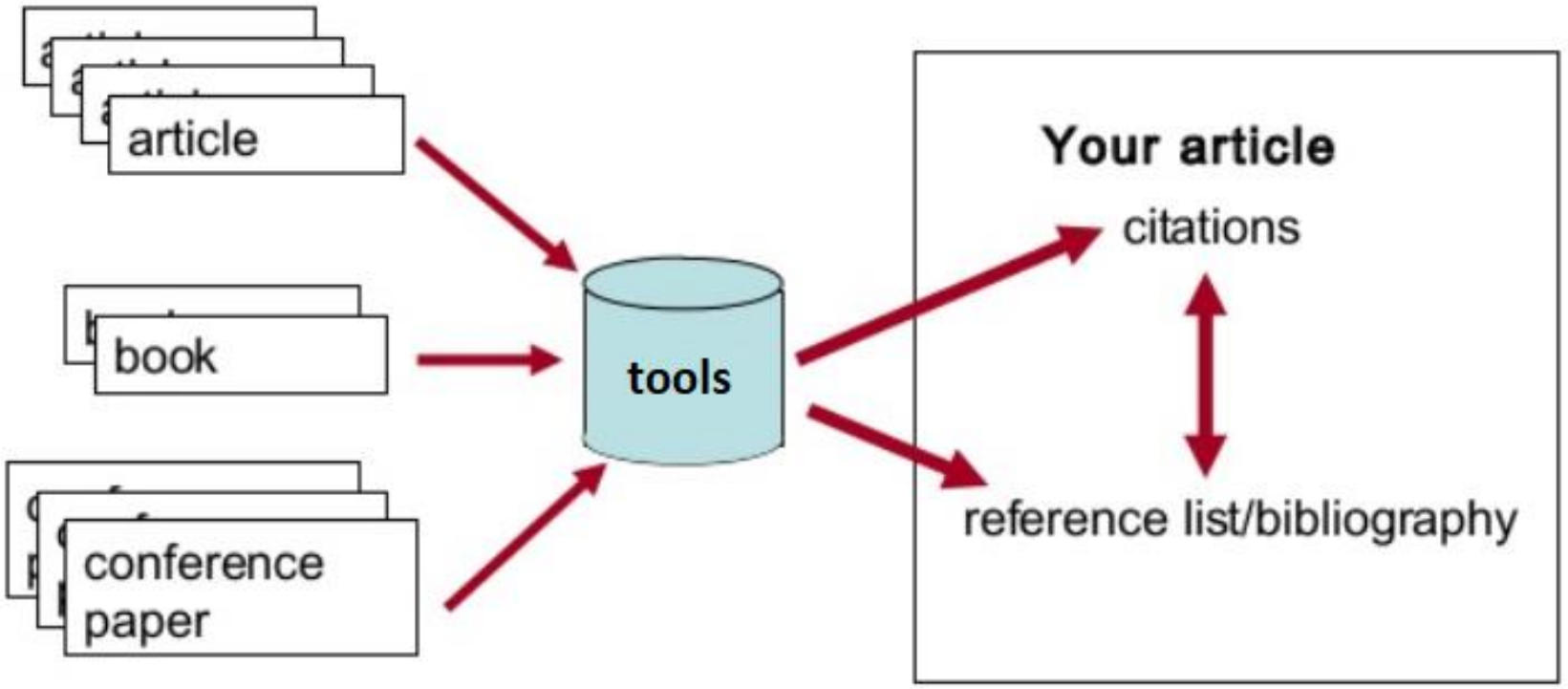
Exercise

- Open a text editor
- Add a reference
- Write a paragraph
- Add a citation to the reference in the paragraph

Problem statement



Using a reference management tool



Reference Management tools

- Tools that help scholars to create and manage a list of relevant publications
- Transform citations according different formats
- Many tools provide ways to download references into reference management tools

Software options

Free

zotero

MENDELEY

Subscription

Reference Manager

EndNote

RefWorks

ProCite

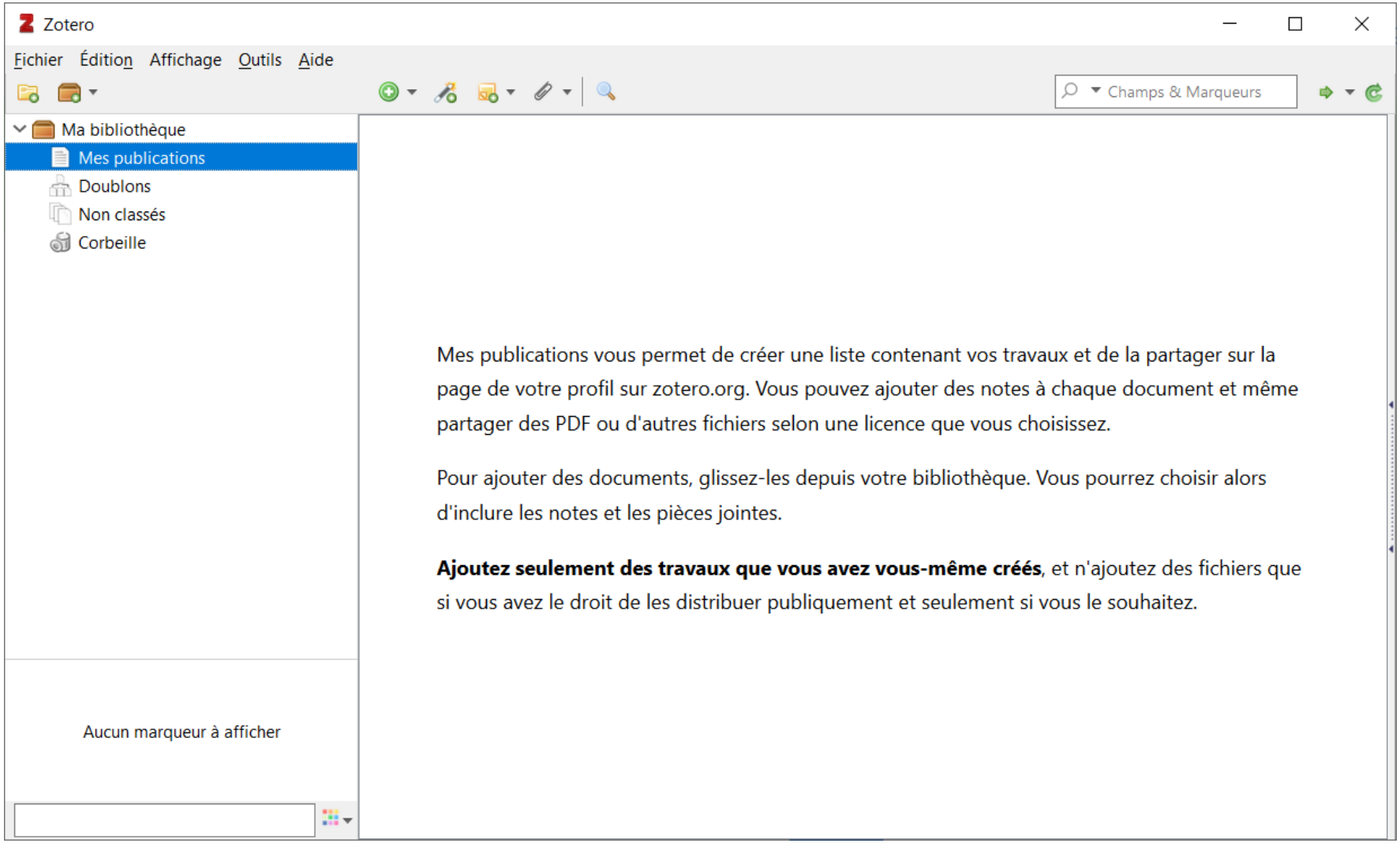
zotero

- Can be downloaded for free at: https://www.zotero.org/download/
- Functionalities:
  - Recognize bibliographic information and extract metadata
  - Store related files such as PDF, images, etc
  - Create a bibliography in Word or OpenOffice
  - Publish shared libraries for working with other people

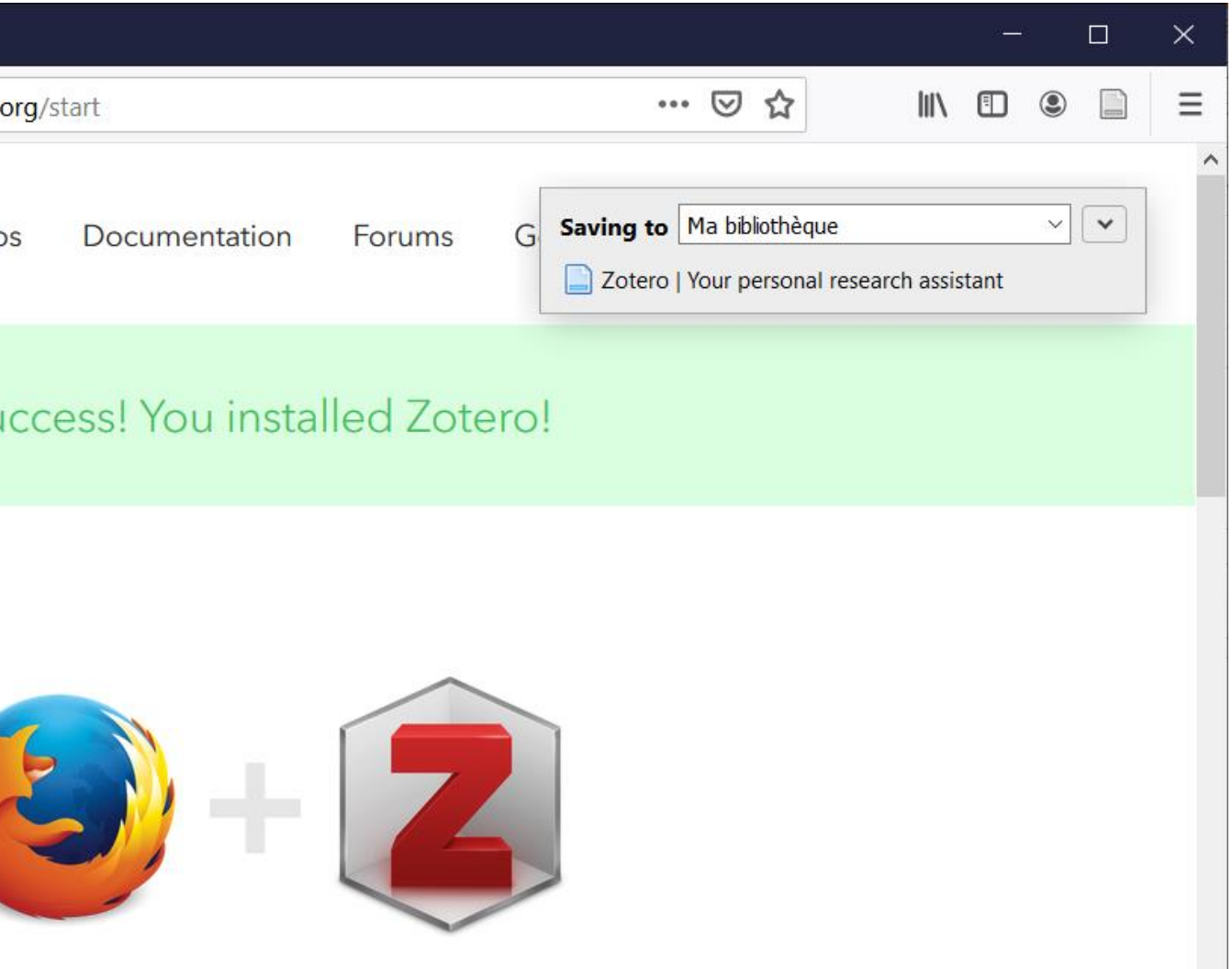
Exercise

- Open the Firefox web browser
- Go to www.zotero.org
- Install Zotero/download
- Allow to intall the zotero add-on for Firefox
- Restart Firefox

zotero Desktop

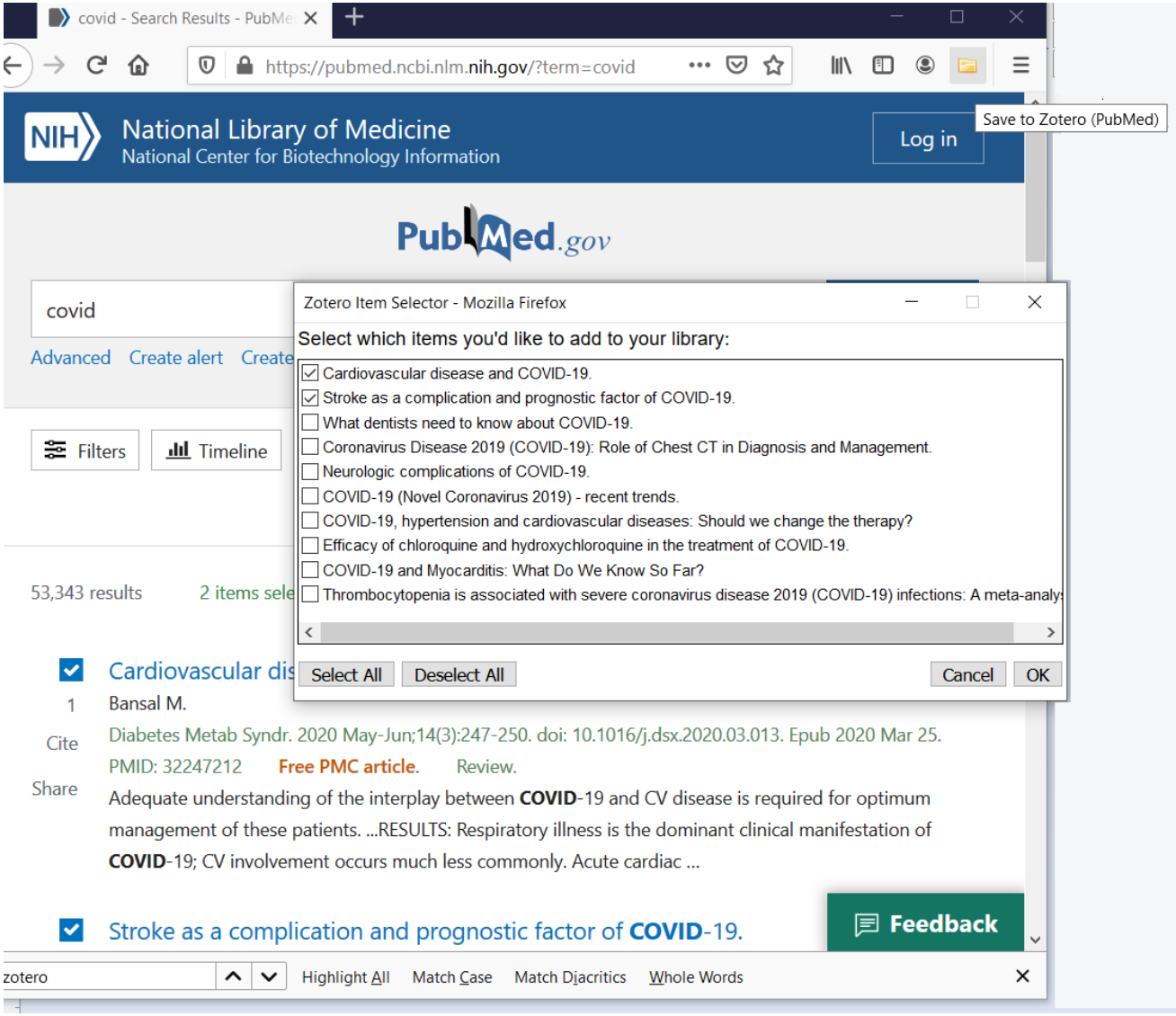


zotero Collector

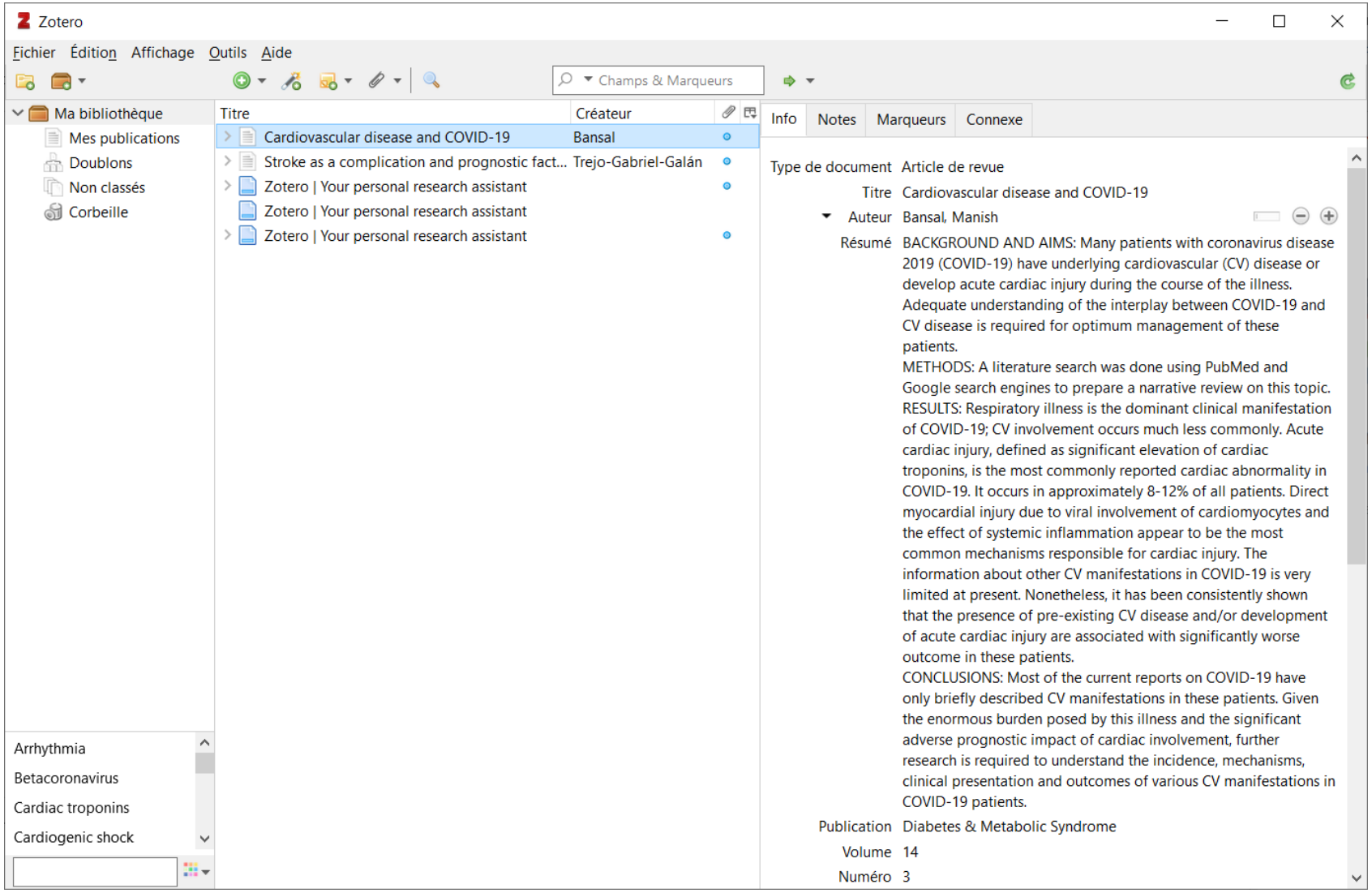


Collecting papers

- In the browser go to https://pubmed.ncbi.nlm.nih.gov/
- Search for covid19
- Select papers of interest
- Ask for saving the papers using zotero collector (over the browser)

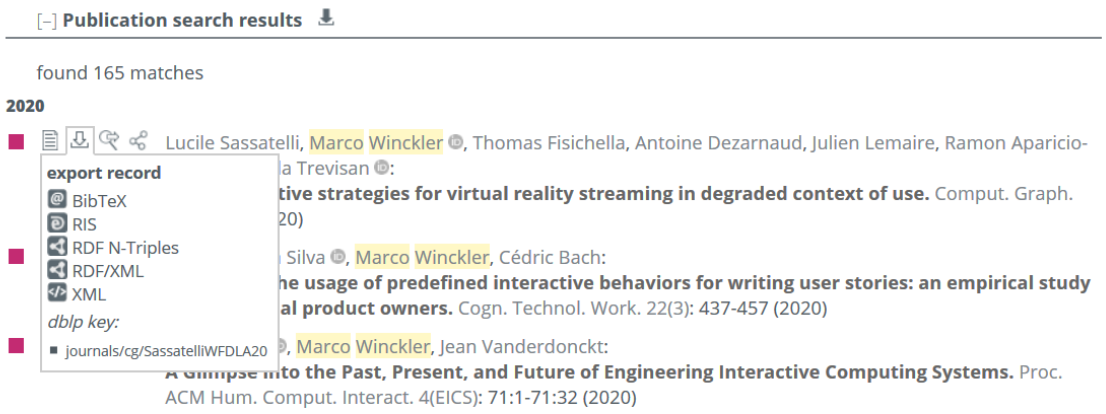

covid - Search Results - PubMe
https://pubmed.ncbi.nlm.nih.gov/?term=covid
Save to Zotero (PubMed)
National Library of Medicine
National Center for Biotechnology Information
Log in
PubMed.gov
covid
Advanced
Create alert
Filters
Timeline
53,343 results
2 items sele
Zotero Item Selector - Mozilla Firefox
Select which items you'd like to add to your library:
Cardiovascular disease and COVID-19.
Stroke as a complication and prognostic factor of COVID-19.
What dentists need to know about COVID-19.
Coronavirus Disease 2019 (COVID-19): Role of Chest CT in Diagnosis and Management.
Neurologic complications of COVID-19.
COVID-19 (Novel Coronavirus 2019) - recent trends.
COVID-19, hypertension and cardiovascular diseases: Should we change the therapy?
Efficacy of chloroquine and hydroxychloroquine in the treatment of COVID-19.
COVID-19 and Myocarditis: What Do We Know So Far?
Thrombocytopenia is associated with severe coronavirus disease 2019 (COVID-19) infections: A meta-analy
Select All
Deselect All
Cancel
OK
Cardiovascular dis
1
Bansal M.
Cite
Diabetes Metab Syndr. 2020 May-Jun;14(3):247-250. doi: 10.1016/j.dsx.2020.03.013. Epub 2020 Mar 25.
PMID: 32247212
Free PMC article.
Review.
Share
Adequate understanding of the interplay between COVID-19 and CV disease is required for optimum management of these patients. ...RESULTS: Respiratory illness is the dominant clinical manifestation of COVID-19; CV involvement occurs much less commonly. Acute cardiac ...
Stroke as a complication and prognostic factor of COVID-19.
Feedback
zotero
Highlight All
Match Case
Match Diacritics
Whole Words

Resultat sur Zotero desktop



Import from clipboard

- Look for reference in supported formats, ex. BibTex

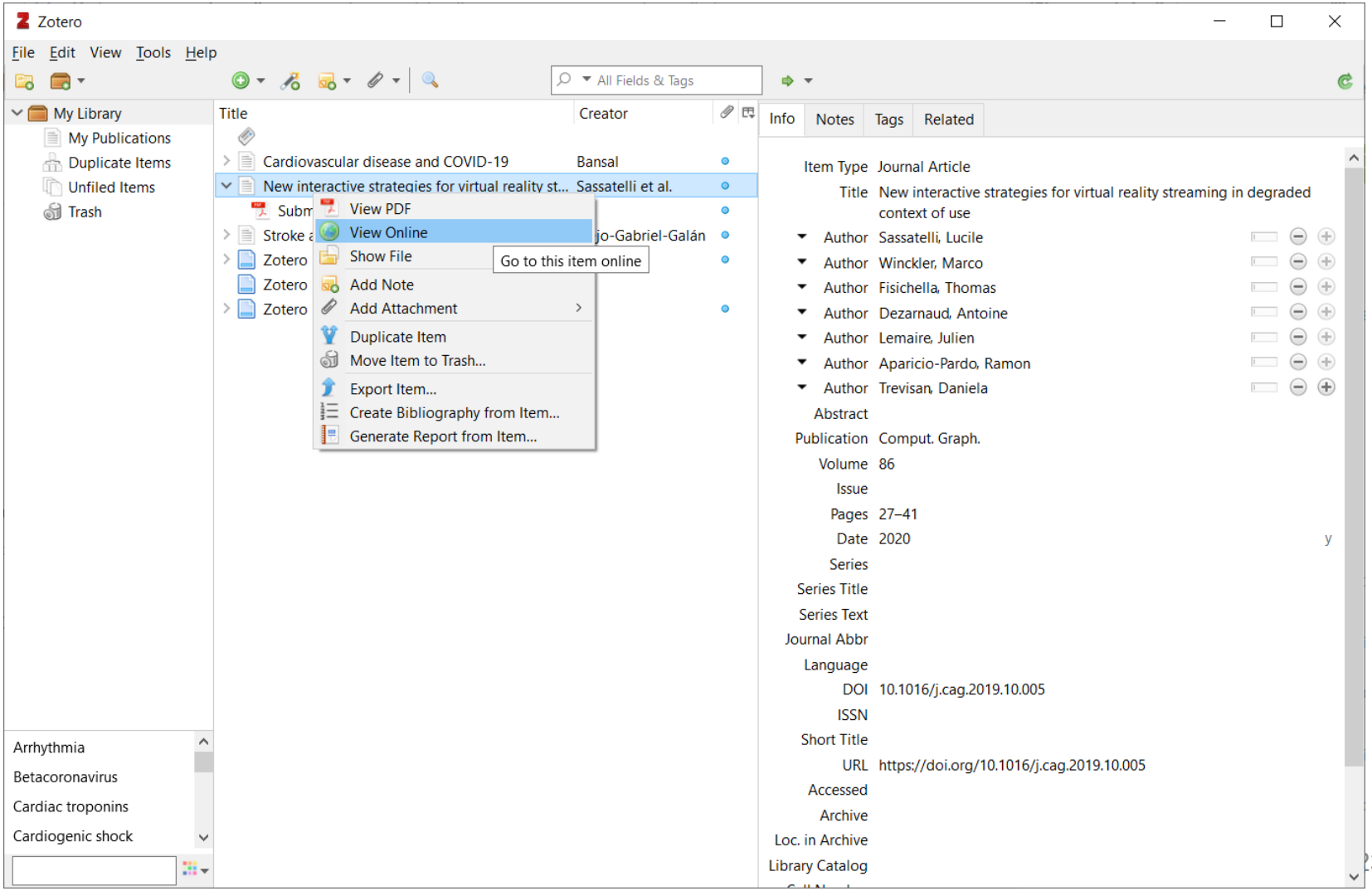


- Copie le BibText
- Sur Zotero desktop: select import from clipboard

BibTex format (example)

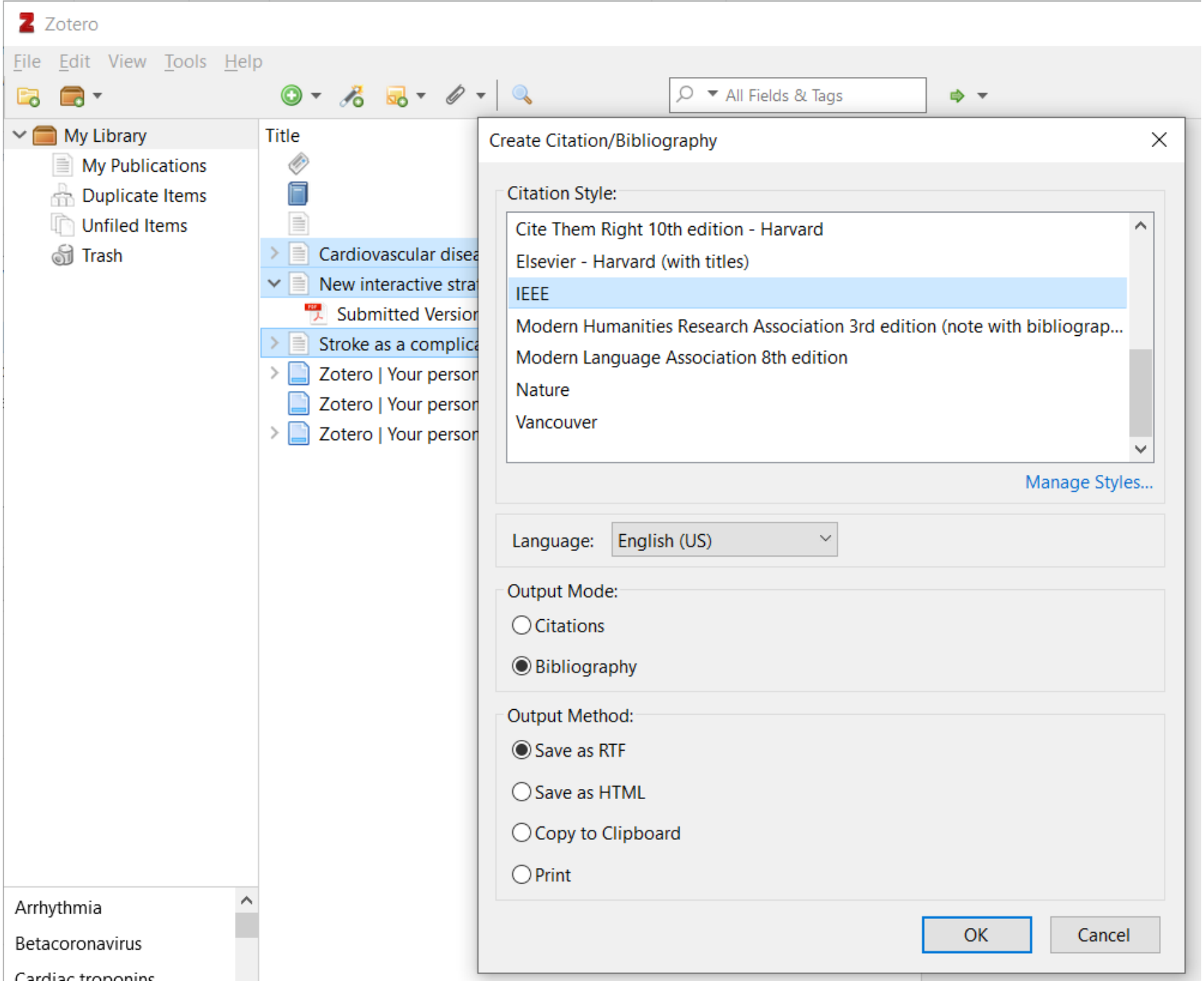
```
@article{DBLP:journals/cg/SassatelliWFDLA20,
  author    = {Lucile Sassatelli and
               Marco Winckler and
               Thomas Fisichella and
               Antoine Dezarnaud and
               Julien Lemaire and
               Ramon Aparicio{-}Pardo and
               Daniela Trevisan},
  title     = {New interactive strategies for virtual reality streaming in degraded
               context of use},
  journal   = {Comput. Graph.},
  volume    = {86},
  pages     = {27--41},
  year      = {2020},
  url       = {https://doi.org/10.1016/j.cag.2019.10.005},
  doi       = {10.1016/j.cag.2019.10.005},
  timestamp = {Thu, 19 Mar 2020 10:23:45 +0100},
  biburl    = {https://dblp.org/rec/journals/cg/SassatelliWFDLA20.bib},
  bibsource = {dblp computer science bibliography, https://dblp.org}
}
```

Complete reference: ex. find PDF



Creating bibliography with Zotero

- Select one or more references in Zotero desktop
- Click-right and select “Create Citation/Bibliography”
- Then select citation style (ex. Harvard, APA, etc)
- Chose “Save as”… RTF, HTML, etc
- Past into Word


Zotero
File Edit View Tools Help
All Fields & Tags
My Library
My Publications
Duplicate Items
Unfiled Items
Trash
Title
Cardiovascular disea
New interactive strat
Submitted Version
Stroke as a complica
Zotero | Your person
Zotero | Your person
Zotero | Your person
Arrhythmia
Betacoronavirus
Cardiac troponins
Create Citation/Bibliography
Citation Style:
Cite Them Right 10th edition - Harvard
Elsevier - Harvard (with titles)
IEEE
Modern Humanities Research Association 3rd edition (note with bibliograp...
Modern Language Association 8th edition
Nature
Vancouver
Manage Styles...
Language:
English (US)
Output Mode:
Citations
Bibliography
Output Method:
Save as RTF
Save as HTML
Copy to Clipboard
Print
OK
Cancel

Advanced features

- Adding a reference manually
- Adding notes, tags to a paper
- Combining files
- Managing collections

Exercise

- Search relevant literature using the keywords
  - Visualization + music
  - Visualization + authors
  - Social networks visualization
- Search keywords in the following datasets
  - DBLP.org ACM DL IEEE Explorer Google scholars New York Times
- Create a bibliography dataset
  - Add info citation paper and category (ex; conf./workshop/journal, etc.)
- Create annotations for comparing the work
  - Start with a initial list of attributes
    - Select obvious attributes for the domain. Ex. List of topic
    - Define range of values for attributes
  - For each paper
    - Classify each paper according to attributes
    - Add keywords, personal notes, etc.…
  - If new topics or attributes are cited, revise the grid and check papers again
- Share and export the bibliography dataset