

Bibliographies and LaTeX

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November 18, 2016

Overview

Dealing with Bibliographies in \LaTeX

- There are three general concerns
 - Generating (and maintaining) a “Bib” file
 - Entering citations into your document
 - Getting \LaTeX to turn the first two concerns into something usable
- Other tweaks
 - Specific formatting requirements

The Bib File

What is a “Bib” File?

- A bib file, noted with a `.bib` extension, is a plain text file that contains a list of your citations
 - These entries include
 - Author
 - Title
 - Etc.
 - Citekey

Example Bib File

```

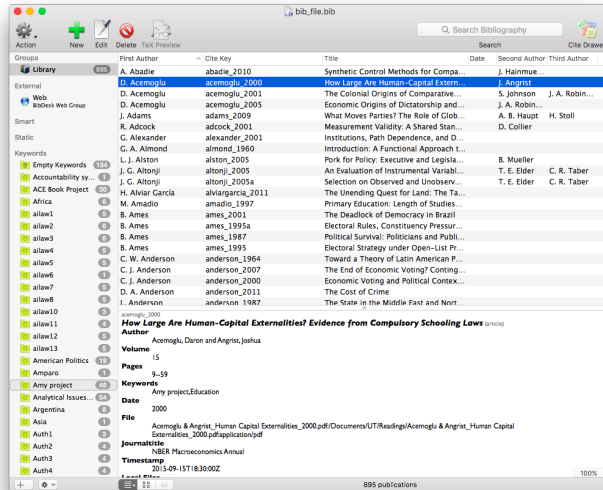
1 |
2 @article{lijphart_1971,
3   title = {Comparative {{Politics}} and the {{Comparative Method}}},
4   volume = {65},
5   timestamp = {2013-08-29T17:09:33Z},
6   number = {3},
7   journaltitle = {The American Political Science Review},
8   author = {Lijphart, Arend},
9   date = {1971-09},
10  pages = {662-693},
11  keywords = {Comparative Core,Comparative Politics,Foundations,Methodology,Sem 1,UG},
12  file = {390K - Lijphart 1971.pdf:/Documents/UT/Coursework/Comparative Core/Readings/Week
13  - 1/390K - Lijphart 1971.pdf:application/pdf}
14 }
15
16 @article{sartori_1978,
17   title = {Concept {{Misinformation}} in {{Comparative Politics}}},
18   volume = {64},
19   timestamp = {2014-07-24T17:43:59Z},
20   number = {4},
21   journaltitle = {The American Political Science Review},
22   author = {Sartori, Giovanni},
23   date = {1978-12},
24   pages = {1853-1853},
25   keywords = {Comparative Core,Comparative Politics,Foundations,Sem 1},
26   file = {390K - Sartori 1978.pdf:/Documents/UT/Coursework/Comparative Core/Readings/Week
27   - 1/390K - Sartori 1978.pdf:application/pdf}
28 }
29
30 @article{stonesweet_1999,
31   title = {Judicialization and the {{Construction}} of {{Governance}}},
32   volume = {32},
33   timestamp = {2013-10-22T18:33:27Z},
34   number = {2},
35   journaltitle = {Comparative Political Studies},
36   author = {Stone Sweet, Alec},
37   date = {1999-04},
38   pages = {147-184},
39   keywords = {Comparative Judicial Politics,Comparative
40   Politics,Courts,Institutions,Public Law,Sem 1},
41   file = {01 Stone Sweet Judicialization and
42   governance.pdf:/Documents/UT/Coursework/Comparative Judicial Politics/Readings/01 Stone
43   Sweet Judicialization and governance.pdf:application/pdf}
44 }
45
46 @book{rodgers_2006,
47   location = {{Armonk, N.Y.}},
48   title = {American {{Poverty}} in a {{New Era}} of {{Reform}}},
49   isbn = {978-0-7656-2211-2},
50   url = {http://public.eblib.com/EBLPublic/PublicView.do?ptID=302401},
51   abstract = {This edition provides a comprehensive examination of the extent, causes,
52   effects, and costs of American poverty nearly ten years after the passage of the Personal
53   Responsibility and Work Opportunity Reconciliation Act (PRWORA) in 1996.},
54   timestamp = {2016-10-25T17:01:32Z},
55 }

```

How to Make a bib file

- Do it by hand
 - Google Scholar makes getting the citation easy
 - But it means that all you end up with is this goofy file
- Use a .bib file app manager like BibDesk
 - Relatively easy to use
 - Adds tools like keywords and groups

BibDesk



How to Make a bib file

- Use a full “point-and-click” manager like Zotero or Mendeley

Zotero

The screenshot shows the Zotero application interface. On the left, the 'My Library' folder is expanded, showing a hierarchical structure of folders and items. The main pane displays a list of items with columns for Title, Creator, and Year. The right pane shows detailed information for the selected item, 'Synthetic Control Methods for Comparative Case Studies: Estimating the Effect of California's Tobacco Control Program' by Abadie and Hainmueller, 2010.

Title	Creator	Year
Synthetic Control Methods for Comparative Case Studies: Estimating the Effect of California's Tobacco Control Program	Abadie and Hainmueller	2010
How Large are Human-Capital Externalities? Evidence from Compulsory Schooling Laws	Acemoglu and Angrist	2000
The Colonial Origins of Comparative Development: An Empirical Investigation	Acemoglu et al.	2001
Economic Origins of Dictatorship and Democracy	Acemoglu and Robinson	2005
What Moves Parties? The Role of Global Opinion and Global Economic Conditions in Western Europe	Adams et al.	2009
Measurement Validity: A Shared Standard for Qualitative and Quantitative Research	Adcock and Collier	2001
Institutions, Path Dependence, and Democratic Consolidation	Alexander	2001
Introduction: A Functional Approach to Comparative Politics	Almond	1960
Pork for Policy: Executive and Legislative Exchange in Brazil	Aiston and Mueller	2005
An Evaluation of Instrumental Variable Strategies for Estimating the Effects of Catholic Schooling	Altunji et al.	2005
Selection on Observed and Unobserved Variables: Assessing the Effectiveness of Catholic Schools	Altunji et al.	2005
The Unending Quest for Land: The Tale of Broken Constitutional Promises	Alvar Garcia	2011
Primary education: length of studies and instructional time	Amado	1997
Political Survival: Politicians and Public Policy in Latin America	Ames	1987
Electoral Strategy under Open-List Proportional Representation	Ames	1995
Electoral Rules, Constituency Pressures, and Pork Barrel: Bases of Voting in the Brazilian Congress	Ames	1995
The Deadlock of Democracy in Brazil	Ames	2001
Toward a Theory of Latin American Politics	Anderson	1964
Economic voting and political context: a comparative perspective	Anderson	2000
The End of Economic Voting? Contingency Dilemmas and the Limits of Democratic Accountability	Anderson	2007
The Cost of Crime	Anderson	2011
The State in the Middle East and North Africa	Anderson	1987
Students Today, Teachers Tomorrow? Identifying Constraints on the Provision of Education	Andrabi et al.	2011
Tierra y Libertad: The Social Function Doctrine and Land Reform in Latin America	Arkensten and Ruppert	2006
The Political Origins of Primary Education Systems: Ideology, Institutions, and interdenominational Conflict in...	Ansell and Lindvall	2013
Inequality and Democratization: A Contractarian Approach	Ansell and Samuels	2010
From the Ballot to the Backboard: The Redistributive Political Economy of Education	Ansell	2010
The Effect of Parental Presence, Parents' Education, and Household Headship on Adolescents' Schooling an...	Arends-Kuenning and Duryea	2006
The New Left and Democratic Governance in Latin America	Armon and Perales	2007
Do Private Schools Force Public Schools to Compete?	Arum	1996
Moving from resistance to agreement: The case of the Chilean teacher performance evaluation	Avales and Assael	2006
The Effects of Capital Mobility, Trade Openness, and Democracy on Social Spending in Latin America, 1980...	Avelino et al.	2005
Interpreting the Trustworthiness of Government Mediated by Information and Communication Technology: L...	Avgerou et al.	2009
Judicial independence across Democratic Regimes: Understanding the Varying Impact of Political Competitor	Avlin	2013
Like Father, Like Son? intergenerational Educational Mobility in India	Azam and Bhattacharya	2015
Property in the Post-post-revolution: Notes on the Crisis of the Constitutional idea of Property in Contempor...	Azuella	2011
From Class to Identity: The Politics of Education Reform in Former Yugoslavia	Bacevic	2014
Mensaje de S.E. La Presidenta de la República con el que inicia un Proyecto de Ley que Establece la Ley Gen...	Bachelet	2007
Mensaje de S.E. La Presidenta de la República con el que se inicia un proyecto de ley que crea el sistema de ...	Bachelet	2015
Would autocracies promote autocracy? A political economy perspective on regime-type export in regional ne...	Bader et al.	2010
Leadership Representation and Extremism: A Study of American Voters and Their Members in Congress	Balfanz and Harrison	2010
Public Security and Police Reform in the Americas	Baloy and Darnstadt	2006
The Latin American Left's Mandate: Free-Market Policies and Issue Voting in New Democracies	Baker and Greene	2011
Why is Trade Reform so Popular in Latin America? A Consumption-Based Theory of Trade Policy Preferences	Baker	2003
Combining health care, childcare, global education between family and school	Baker and LaTea	2008

The right pane shows detailed information for the selected item, 'Synthetic Control Methods for Comparative Case Studies: Estimating the Effect of California's Tobacco Control Program' by Abadie and Hainmueller, 2010. It includes fields for Item Type, Citation Key, Title, Author, Abstract, Publication, Volume, Issue, Pages, Date, Series, Series Title, Series Text, Journal Abb, Language, DOI, ISSN, Short Title, URL, Accessed, Archive, Loc. in Archive, Library Catalog, Call Number, Rights, Extras, Date Added, and Modified.

Zotero (or similar)

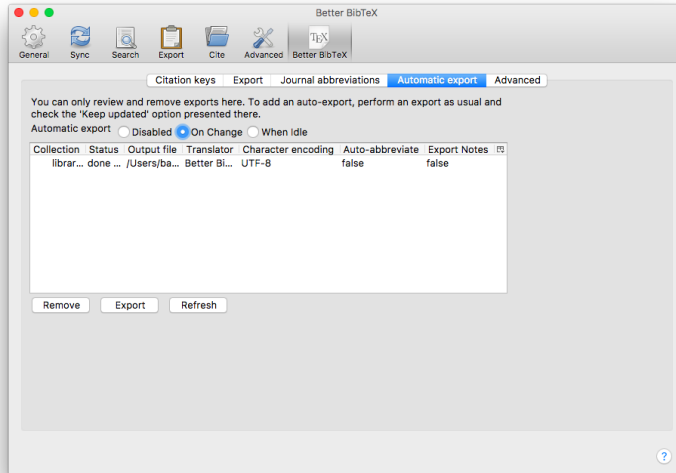
- Advantages

- Easy to use
- Complex groups/collections/tags
- Notes
- Attach files and index them for search
- Has options for Word, if you ever need to go that route

- Disadvantages

- Can slow down with larger bibliographies
- “Point-and-click” convenience is ultimately slower
- Possibly not future-proof

My Zotero Use



My Zotero Use

- Adjust my citation key default
- Automatic export to bib file

Citations - Overview

Natbib vs BibLaTeX

- There are two citation packages options: “natbib” and “biblatex”
 - They use different backend programs to process the citations (bibtex and biber, respectively)
 - The differences are pretty small between the two, but there are some incompatibilities
- You have to make a choice up front when generating your bib file
 - The choice will affect what you put into your \LaTeX file, but other than that it shouldn't matter very much

Citations Using natbib

The Preamble

- `\usepackage{natbib}`
- Well that's easy!

Citations in the Document

- `\citep{<citekey>}` for an parenthetical citation
- `\citep[<pages>]{<citekey>}` for parenthetical with a page citation
- `\citet{<citekey>}` for a text citation
- `\citeyear{<citekey>}` for just the year citation
- There are some other options, but these are the most common

References Page

```
\clearpage % to add a page break  
\bibliographystyle{apsr} % assuming you have apsr.bst saved in the corre  
\bibliography{<your_bib_file>}
```

Compiling into a pdf

- To compile within TeXworks (or similar):
 - Compile once as pdfLaTeX
 - Compile a second time as BibTeX
 - Compile a third time as pdfLaTeX
 - Compile a fourth time as pdfLaTeX

Some Notes on natbib

- There are lots of style files out there
 - You can save it in the working directory for your document or `~/Library/texmf/bibtex/bst` for global access (on Mac, not sure about Windows)
- The bib file should also be placed in the working directory for your document
 - If it's not, you can use an absolute path to direct \LaTeX to it
- But it struggles with foreign characters

Citations Using biblatex

The Preamble

- `\usepackage[style=authoryear, url=false, doi=false]{biblatex}`
- `\addbibresource{<your_bib_file>}`
- Also pretty easy!
 - Note the second line implies you could use multiple bib files

Citations in the Document

- `\autocite{<citekey>}` for almost everything
- `\textcite{<citekey>}` for a text citation
- `\autocite[<page_no>]{<citekey>}` also works for page numbers
- You can also use things like `\citeyear{}` if you need

References Page

```
\clearpage % to add a page break  
\printbibliography
```

Compiling into a pdf

- To compile within TeXworks (or similar):
 - Compile once as pdfLaTeX
 - Compile a second time with biber (may require extra setup)
 - Compile a third time as pdfLaTeX
 - Compile a fourth time as pdfLaTeX

Some Notes on biblatex (ht: JAB)

- Although it solves problems with foreign/unicode characters, it has some limitations/quirks
- No deep library of citation style files (but, honestly, who cares?)
- Default is to put “In:” before the journal name; solve with (one line)
 - `\renewbibmacro{in:}{\ifentrytype{article}{}{\printtext{\bibstring{in}\intitlepunct}}}`

Also this:

- Inconsistent period placement with quotation marks; solve with:
 - `\usepackage[american]{babel}`
 - And to avoid a warning, also add `\usepackage{csquotes}`

Other Considerations

Isn't there an easier way to compile!?

- If you happen to be using a .Rnw file in RStudio, then when you “knit” that, it will do all four steps for you in one fell swoop
- If you compile from the command line, you can run `latexmk <yourfile.tex>`
 - This allows you to set extra flags like `-xelatex` or `-c`

Some cool tricks (ht: JAB)

- Load the hyperref package at the very end of your preamble to automatically link your text citations with your reference list
 - `\usepackage{hyperref}`
 - Fix its ugly box default and make links colored words instead by adding this immediately after:
 - `\hypersetup{colorlinks=true}`

One more trick (thanks again Alex)

- If you keep a DOI in your bib file for your entries, you can link the title of each entry to the DOI

```
\newbibmacro{string+doi}[1]{%
  \iffieldundef{doi}{#1}{\href{http://dx.doi.org/\thefield{doi}}{#1}}}
\DeclareFieldFormat{title}{\usebibmacro{string+doi}{\mkbibemph{#1}}}
\DeclareFieldFormat[article]{title} % should be one line with next
{\usebibmacro{string+doi}{\mkbibquote{#1}}}
```


There are lots of options for everything

- JFGI