

PrefLib and the ComSoC Tools

Simon Rey

January 18, 2023

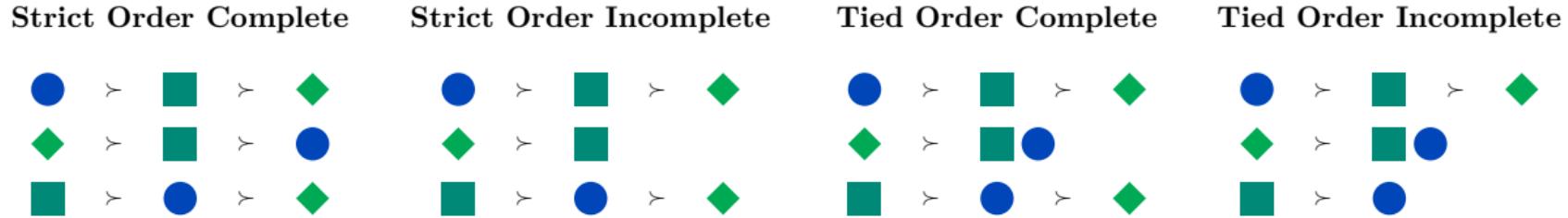


UNIVERSITEIT VAN AMSTERDAM

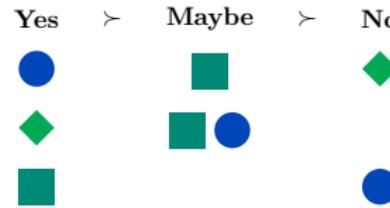
1. PrefLib



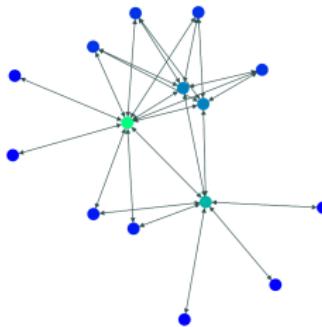
Library of Reported Preferences



Categorical



Weighted Matching (WMD)



58 Datasets, 13 734 Data Files

2002 French Presidential Election

AAMAS Bidding Data
AGH Course Selection
APL Election Data
Apuen Election Data
Berkeley Election Data
Boardgames Good Ranking
Boxing
Breakfast Items
Burgosban Election Data
Cities Survey
Cloudweb Power Ranking
Computer Science Conference Bidding Data
Countries Ranking
Cycling Races
Debian Project Data
Educational Surveys in Informatics (Cuje) 
Electoral Reform Society (ERS) Data
Formula 1 Race
Formula 1 Seasons
Glasgow City Council
Global University Ranking
Ircv Election Data
Kidney Data
Marsenne Pork Selection
Mechanical Turk Data
Mechanical Turk Puzzle
Metropolis Election Data
Mysoreah City Ranking
Mytchies Competitions
Netflix Prize Data
NSW Legislative Assembly Election Data
Oakland Election Data
Parliamentary Elections
Pierce Election Data
Project Bidding Data
Proto French Election
Proto French Election Ratings - Rating
San Francisco Election Data
San Leandro Election Data
San Sebastian Poster Competition
Seasons Power Ranking
Shake Data
Sling Competition
Social Recommendations
Spotify Countries Chart
Spotify Daily Chart
Sushi Data
T Shirt
Table Tennis Ranking
Takoma Park Election Data
Tennis Ranking
Trip Advisor Data
UK Labor Party Leadership Race
Revenue District Rises
Web Search
Weeks Power Ranking

2002 French Presidential Election

00026   

The 2002 French Presidential Election Dataset was collected by Jean-Francois Laslier and Karine Van der Straeten. It consists of 2,597 approval ballots collected in parallel to the actual election in 6 different districts in France.

The approval votes were collected at a set of polling stations in France during the first round of voting in the 2002 French National Election. Voters in these districts were informed prior to the election that they would have the ability to cast an approval ballot along with their normal ballot for the election. Overall, over 75% of those who turned up to vote participated in the experiment. Each of the files represent one district voting on the same election. There are between 367 and 476 voters (2,597 in all) and 16 candidates. Additional details the method used to collect the data and results of analysis can be found in the required citation for the use of this dataset.

Consists of 6 data files: [OyaisNesnas](#) [Osay1](#) [Osay2](#) [Osay3](#) [Osay4](#) [Osay12](#) 

AAMAS Bidding Data

00017  

This dataset contains the bids of reviewers over papers from the 2015, 2016 and 2021 Autonomous Agents and Multiagent Systems Conference.

For the years 2015 and 2016, inclusion in these data sets were explicitly opt-in; 2015 contains 9,817 bids of 201 reviewers over 613 papers; this represents about 40% of the actual 22,360 bids of 281 reviewers over 670 papers. The 2016 data contains 161 out of 393 reviewers with bids over 442 out of 550 papers. For the year 2021, 526 submissions, 71 SPC members, and 596 regular PC members passed the checks (not opting-out, etc.).

The bidding language for these conferences is **yes|maybe|no|conflict**. In order to make these more useful for PreLib users, we have converted them to categorical data of the form **[yes] > [maybe] > [no response] > [no] > [conflict]**. Note that not all years have the same categories. We are deeply grateful to the IFAAMAS board and [Rajesh Bowdha](#), [Edith Elkind](#), [John Thangarajan](#), and [David Shafai](#) for approving, coordinating, and providing this dataset. The 2021 data has been generously provided by [Ulf Engström](#).

Consists of 3 data files: [AAMAS_2015](#) [AAMAS_2016](#) [AAMAS_2021 with roles](#) 

AGH Course Selection

00009  

This dataset contains the results of surveying students at [AGH University of Science and Technology](#) about their course preferences. Each student provided a rank ordering over all the courses with no missing elements. There are 9 courses to choose from in 2003 and 7 in 2004.

The data on this page has been donated by [Piotr Faliszewski](#).

Consists of 2 data files: [2003 Registration](#) [2004 Registration](#) 

APA Election Data

00028  

This dataset contains the results of the elections of the American Psychological Association between 1998 - 2009. The voters are allowed to rank any number of the 5 candidates without ties. Each of these elections have 5 candidates and between 13,318 and 20,239 voters.

These data were donated by Michal Regenwetter and Anna Popova from the University of Illinois at Urbana-Champaign. The work that analyzed this data was supported by National Science Foundation grants SES # 08-20009, ICES # 1216016 (PI: M. Regenwetter), the University Library at the University of Illinois at Urbana-Champaign (PI: A. Popova), and the Basic Research Program at HSE (S. Popov). We thank the American Psychological Association for permitting access to its election ballot data. More information and tools for analyzing this data can be found at the website of the [Decision Making Laboratory at the University of Illinois](#).

Consists of 12 data files: [APN_1998](#) [APN_1999](#) [APA_2000](#) [APA_2001](#) [APA_2002](#) [APA_2003](#) [APA_2004](#) [APA_2005](#)  

PrefLib

└ Brief History



The Beginning (2013)

{PrefLib}: A Library for Preferences

Main About Papers Data Formats Data By Domain Data By Type
Tools

A reference library of preference data and links assembled by [Nicholas Mattei](#) and [Toby Walsh](#). We currently house over 3,000 datasets for use by the community.

We want to provide a comprehensive resource for the multiple research communities that deal with preferences, including computational social choice, recommender systems, data mining, machine learning, and combinatorial optimization, to name just a few.

Please see the [about](#) page for information about the site, contacting us, and our citation policy. We rely on the support of the community in order to grow the usefulness of this site. To contribute, please contact [Nicholas Mattei](mailto:nicholas{dot}mattei@nicta.com.au) at: nicholas{dot}mattei@nicta.com.au

$$a > b > c > d$$

$$a > b, c, d > e$$

$$\frac{1}{2} : a > b > c \\ \frac{1}{4} : c > b > a \\ \frac{1}{4} : b > c > a$$

Supported By:



NICTA

Few Years Down the Line (2021)

PrefLib: A Library for Preferences

Data ▾

Elections

Matchings

Ratings

Search

About

PrefLib

PrefLib is a reference library of preference data and links assembled by [Nicholas Mattei](#), [Toby Walsh](#) and lately [Simon Rey](#). This site and library is proudly supported by the [Algorithmic Decision Theory group](#) at [Data61](#) and the [The COMSOC Group at the University of Amsterdam](#).

We want to provide a comprehensive resource for the multiple research communities that deal with preferences, including computational social choice, recommender systems, data mining, machine learning, and combinatorial optimization, to name just a few.

For more information on PrefLib and some helpful tips on using it, please see Nick's Tutorial [Slides and Code](#) from [EXPLORE 2014](#). Check out the [data type](#) page to learn more about the kind of data we provide.

Please see the [about](#) page for information about the site, contacting us, and our citation policy. We rely on the support of the community in order to grow the usefulness of this site. To contribute, please contact [Nicholas Mattei](#) at: nsmattei{at}gmail or [Simon Rey](#) at: s.j.rey{at}uva{dot}nl.

In Brief

We currently host:

- 11 types of data
- 38 datasets
- 3668 data files
- More than 3.37 Gb. of data

Other Links

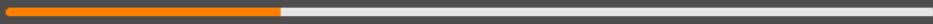
Here are some links that you might find relevant as well.

- [DEMOCRATIX](#): A Declarative Approach to Winner Determination

PrefLib



Major Recent Changes



New Data Format

```
1 | 5
2 | 0,Candidate 1
3 | 1,Candidate 2
4 | 2,Candidate 3
5 | 3,Candidate 4
6 | 4,Candidate 5
7 | 17956,17956,202
8 | 2428,3
9 | 788,1
10 | 565,3,1,4,2
11 | 468,3,1
12 | 439,1,3,4,2
13 | 437,1,4,3,2
14 | 436,3,2,1,4
15 | 417,3,2
16 | 409,3,4,1,2
17 | 403,3,2,4,1
... | ...
```

Old Format

New Data Format

```
1 | 5
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6 | 4,Candidate 5
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13 | 437,1,4,3,2
14 | 436,3,2,1,4
15 | 417,3,2
16 | 409,3,4,1,2
17 | 403,3,2,4,1
...
...
```

Old Format



```
1 | # FILE NAME: 00028-00000006.soi
2 | # TITLE: APA_2003
3 | # DESCRIPTION:
4 | # DATA TYPE: soi
5 | # MODIFICATION TYPE: original
6 | # RELATES TO:
7 | # RELATED FILES: 00028-00000006.toc
8 | # PUBLICATION DATE: 2017-04-13
9 | # MODIFICATION DATE: 2022-09-16
10 | # NUMBER ALTERNATIVES: 5
11 | # NUMBER VOTERS: 17956
12 | # NUMBER UNIQUE ORDERS: 286
13 | # ALTERNATIVE NAME 1: Candidate 1
14 | # ALTERNATIVE NAME 2: Candidate 2
15 | # ALTERNATIVE NAME 3: Candidate 3
16 | # ALTERNATIVE NAME 4: Candidate 4
17 | # ALTERNATIVE NAME 5: Candidate 5
18 | 2428: 4
19 | 788: 2
20 | 565: 4,2,5,3
21 | 468: 4,2
22 | 439: 2,4,5,3
23 | 437: 2,5,4,3
24 | 436: 4,3,2,5
25 | 417: 4,3
26 | 409: 4,5,2,3
27 | 403: 4,3,5,2
...
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New Format

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26 | 409: 4,5,2,3
27 | 403: 4,3,5,2
...
...
```

New Format

Versatile metadata section

New Data Format

```
1 | 5
2 | 0,Candidate 1
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5 | 3,Candidate 4
6 | 4,Candidate 5
7 | 17956,17956,202
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...
...
```

Old Format



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```

New Format

Versatile metadata section

Alternatives start at 1

New Data Format

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... | ...
```

Old Format

No puzzling line



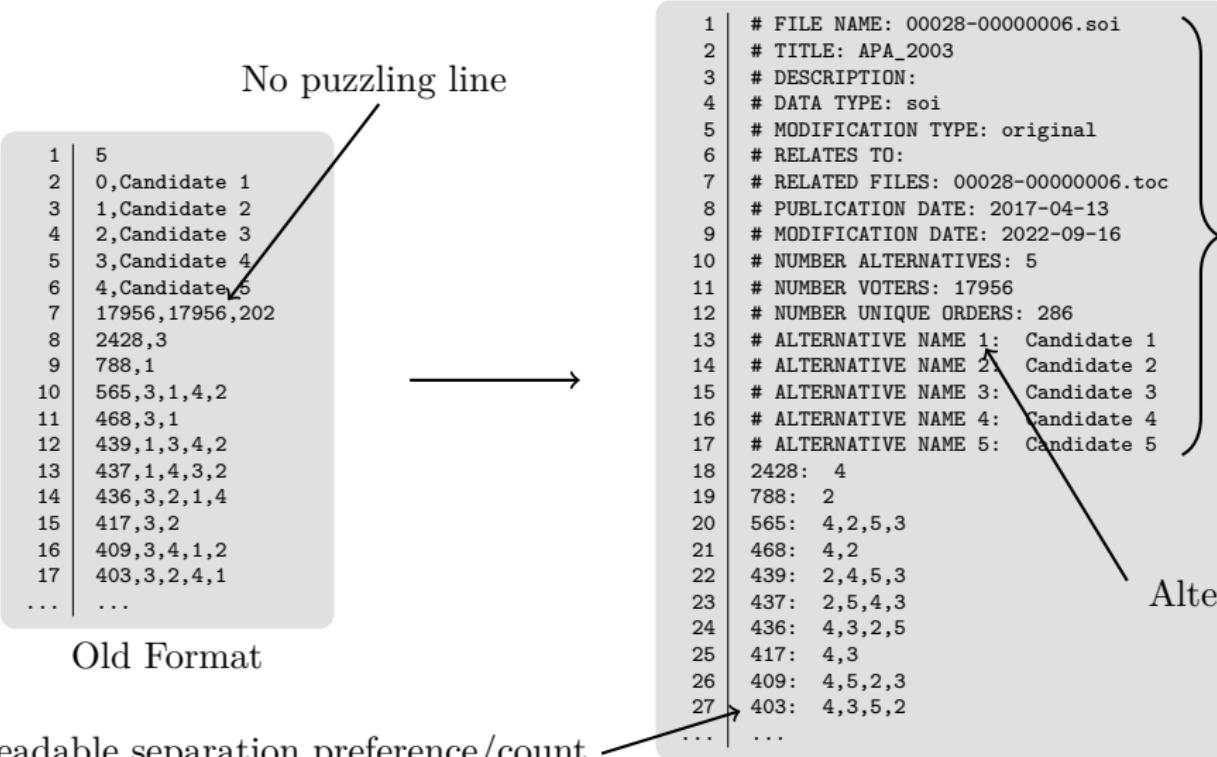
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New Format

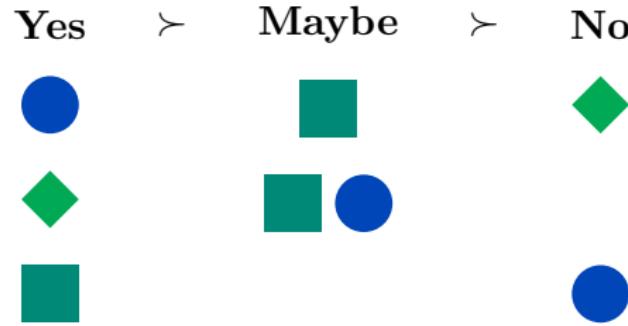
Versatile metadata section

Alternatives start at 1

New Data Format



Categorical Preferences



Alternatives are placed into categories that are ordered, *e.g.*, review bids.

New Datasets

Data collected by Niclas Boehmer and Nathan Schaar in Collecting, Classifying, Analyzing, and Using Real-World Elections (AAMAS, 2023) [\[link\]](#)

- ↳ 16 new datasets, around 50% of the files hosted on PrefLib!

Thank you ❤️

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- ↳ Same 42 respondents ranked 15 alternatives in 5 different scenarios

Thank you ❤️

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Parliamentary Elections digitalised by [Martin Lackner](#) [\[link\]](#)

- ↳ All Austrian parliamentary elections from 1994 to 2019 (9 elections)

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- ↳ Same 42 respondents ranked 15 alternatives in 5 different scenarios

Parliamentary Elections digitalised by Martin Lackner [\[link\]](#)

- ↳ All Austrian parliamentary elections from 1994 to 2019 (9 elections)

NSW Legislative Assembly digitalised by Floyd Everest [\[link\]](#)

- ↳ Strict incomplete orders for all 93 districts (years 2015, 2019, 2023)

Thank you ❤️

The PrefLibTools

github.com/PrefLib/preflibtools

A screenshot of the GitHub project page for 'preflibtools 2.0.13'. The page has a blue header with navigation links: 'Aide', 'Sponsors', 'Se connecter', and 'S'inscrire'. Below the header, there's a search bar with placeholder text 'Rechercher des projets' and a magnifying glass icon. A green button labeled 'Dernière version' with a checkmark is visible. The main content area shows the project name 'preflibtools 2.0.13' and a command 'pip install preflibtools'. Below this, a description reads: 'A set of tools to work with preference data from the PrefLib.org website.' The page footer contains standard GitHub links like 'Description du projet', 'Historique des versions', and 'Téléchargement des fichiers'.

A screenshot of the PrefLibTools project page on PrefLib.org. The page has a blue header with a navigation menu: 'Navigation' (selected), 'Description du projet' (selected), 'Historique des versions', and 'Téléchargement des fichiers'. Below the header, the project title 'Preflibtools' is displayed with a link. A row of status icons includes 'pypi v2.0.13', 'build passing', and 'codecov 92%'. The 'Overview' section contains the following text: 'The PrefLib-Tools is a set of Python tools developed to work with preference data from the [PrefLib.org website](#). This package provides input and output operations on PrefLib instances, together with some additional functionalities on the instances: Testing whether a Condorcet winner exists, whether the instance is single-peaked, etc....'

The PrefLibTools

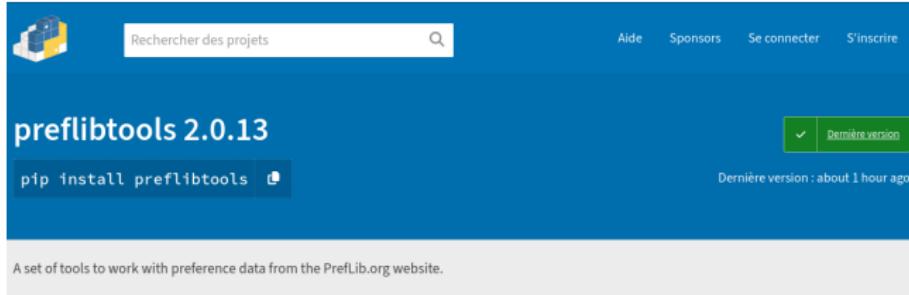
github.com/PrefLib/preflibtools

A screenshot of the GitHub project page for 'preflibtools 2.0.13'. The page has a blue header with the GitHub logo, a search bar, and navigation links for 'Aide', 'Sponsors', 'Se connecter', and 'S'inscrire'. Below the header, the project name 'preflibtools 2.0.13' is displayed with a green 'Dernière version' button. A command line interface (CLI) section shows 'pip install preflibtools'. The main description reads: 'A set of tools to work with preference data from the PrefLib.org website.' On the left, there's a 'Navigation' sidebar with links for 'Description du projet' (which is highlighted in blue), 'Historique des versions', and 'Téléchargement des fichiers'. At the bottom, there's a 'Liens du projet' section with links for 'Bug Tracker' and 'Homepage'.

→ Hosted on PyPI!

The PrefLibTools

github.com/PrefLib/preflibtools



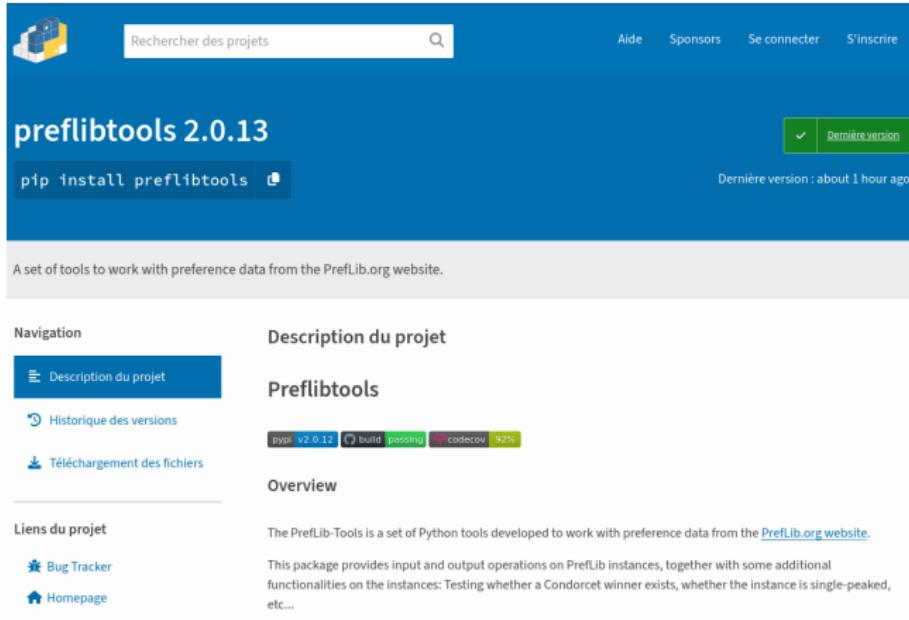
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→ Hosted on PyPI!

→ Parser for all formats of preferences

The PrefLibTools

github.com/PrefLib/preflibtools



A screenshot of the PreflibTools project page on PyPI. The page has a blue header with the project name "preflibtools 2.0.13" and a green "Dernière version" button. Below the header, there's a pip install button and a brief description: "A set of tools to work with preference data from the PrefLib.org website." The main content area is divided into sections: "Navigation" (Description du projet, Historique des versions, Téléchargement des fichiers), "Description du projet" (Preflibtools, Overview), and "Liens du projet" (Bug Tracker, Homepage). The "Description du projet" section contains a detailed overview of the package's purpose and functionality.

Description du projet

Preflibtools

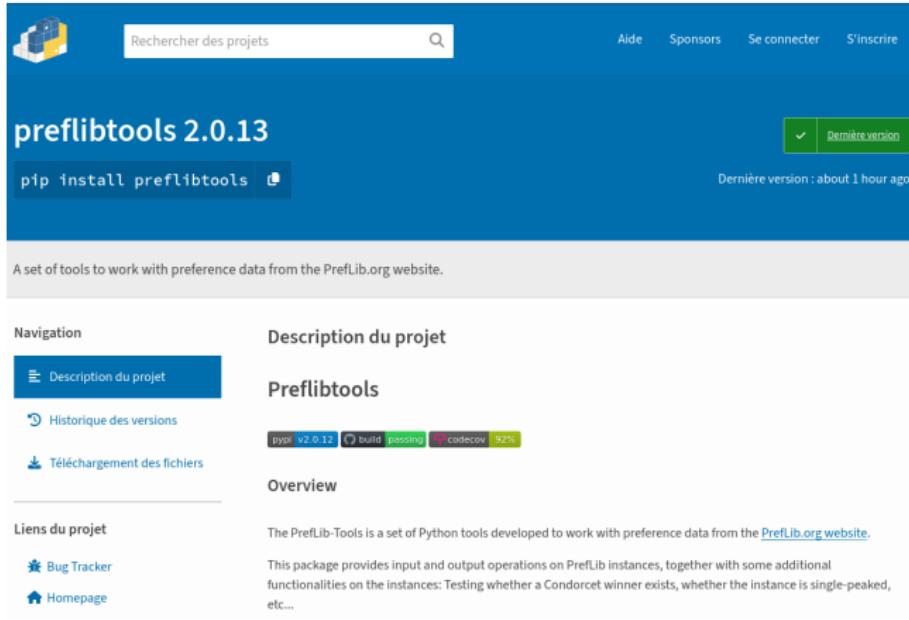
Overview

The PrefLib-Tools is a set of Python tools developed to work with preference data from the [PrefLib.org website](#). This package provides input and output operations on PrefLib instances, together with some additional functionalities on the instances: Testing whether a Condorcet winner exists, whether the instance is single-peaked, etc....

- ➡ Hosted on PyPI!
- ➡ Parser for all formats of preferences
- ➡ Basic properties checks

The PrefLibTools

github.com/PrefLib/preflibtools

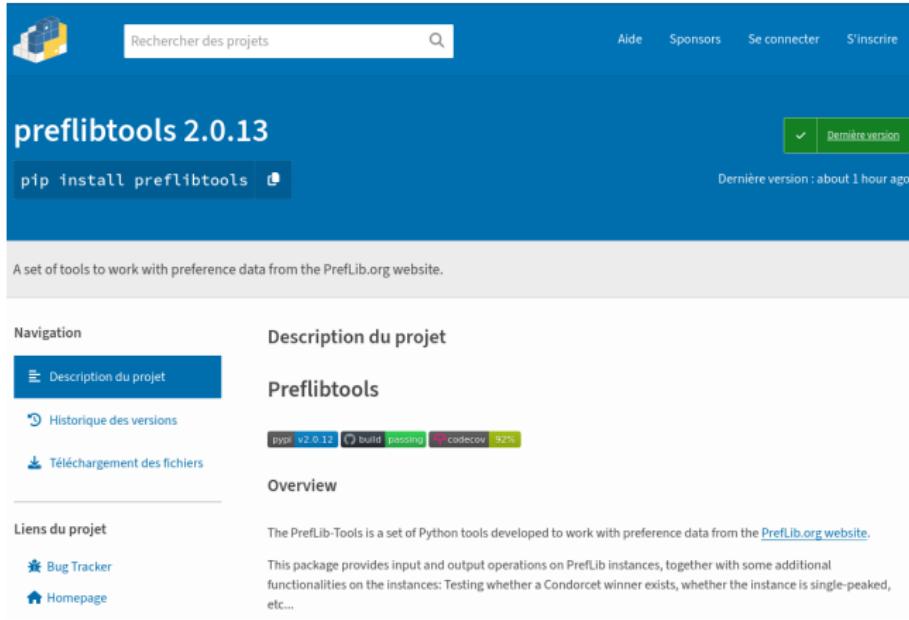


A screenshot of the PyPI project page for **preflibtools 2.0.13**. The page includes a search bar, navigation links (Aide, Sponsors, Se connecter, S'inscrire), and a green button labeled "Dernière version". Below the header, there's a pip install link: `pip install preflibtools`. The main description states: "A set of tools to work with preference data from the PrefLib.org website." On the left, there's a sidebar with "Navigation" links: Description du projet (selected), Historique des versions, and Téléchargement des fichiers. The "Description du projet" section contains the project name, a brief overview, and links to GitHub (v2.0.13), build status (passing), and codecov (92%). The "Overview" section provides a detailed description of the package's purpose and functionality.

- ➡ Hosted on PyPI!
- ➡ Parser for all formats of preferences
- ➡ Basic properties checks
- ➡ Backward-compatible

The PrefLibTools

github.com/PrefLib/preflibtools



A screenshot of the PrefLibTools project page on PyPI. The page has a blue header with the project name "preflibtools 2.0.13". Below the header, there's a search bar and navigation links for "Aide", "Sponsors", "Se connecter", and "S'inscrire". A green button labeled "Dernière version" is visible. The main content area shows the command "pip install preflibtools" and a note: "A set of tools to work with preference data from the PrefLib.org website." On the left, there's a sidebar with "Navigation" sections for "Description du projet" (selected), "Historique des versions", and "Téléchargement des fichiers". On the right, there's a "Description du projet" section for "Preflibtools" with details like "python v2.0.13", "Build: passing", and "Coverage: 92%". Below this is an "Overview" section with a brief description of the package and its purpose.

- ➡ Hosted on PyPI!
- ➡ Parser for all formats of preferences
- ➡ Basic properties checks
- ➡ Backward-compatible
- ➡ Preference samplers (but use prefsampling instead)

A Community-Oriented Workflow

github.com/PrefLib

A Community-Oriented Workflow

github.com/PrefLib



PrefLib-Data

The data hosted on the website, together with some scripts used to maintain the integrity of the data

A Community-Oriented Workflow

github.com/PrefLib



PrefLib-Data

The data hosted on the website, together with some scripts used to maintain the integrity of the data



preflibtools

A small and lightweight Python package for working with the data, also hosted on PyPI

A Community-Oriented Workflow

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PrefLib-Data

The data hosted on the website, together with some scripts used to maintain the integrity of the data



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A small and lightweight Python package for working with the data, also hosted on PyPI



PrefLib-Django

Source of the PrefLib.org website (Django project)

A Community-Oriented Workflow

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The data hosted on the website, together with some scripts used to maintain the integrity of the data



preflibtools

A small and lightweight Python package for working with the data, also hosted on PyPI



PrefLib-Django

Source of the PrefLib.org website (Django project)



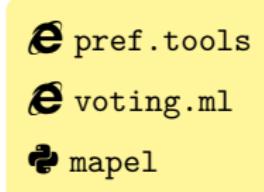
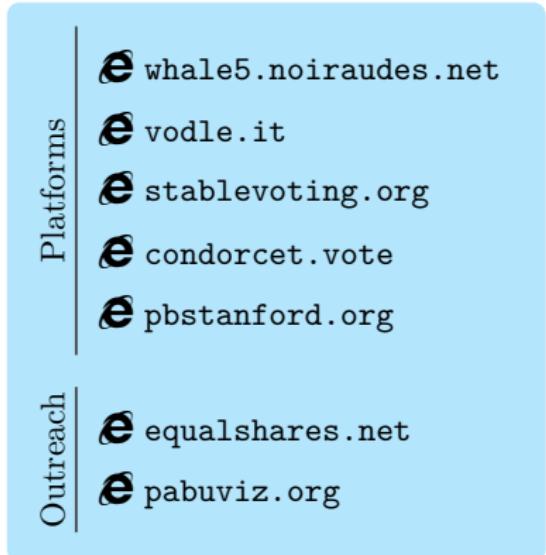
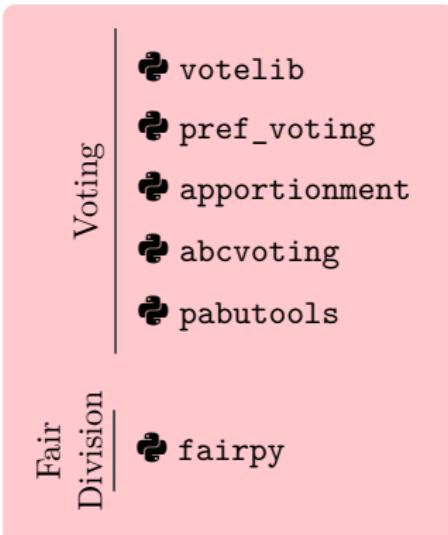
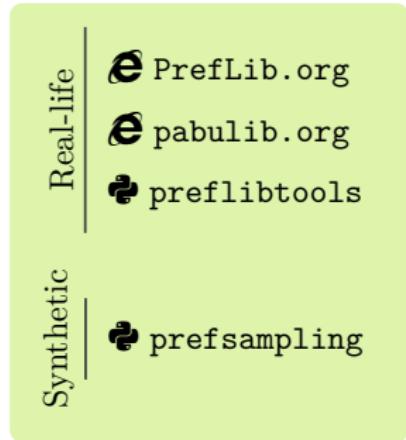
PrefLib-Contrib

A repository to keep track of contributions and TODO's

2. Other Tools



The ComSoC Ecosystem



New-comer — pabutools

pabutools 1.1.4

pip install pabutools 



Dernière version

Dernière version : 6 déc. 2023

github.com/pbvoting/pabutools

A complete set of tools work with participatory budgeting instances.



Simon Rey



Grzegorz Pierczyński

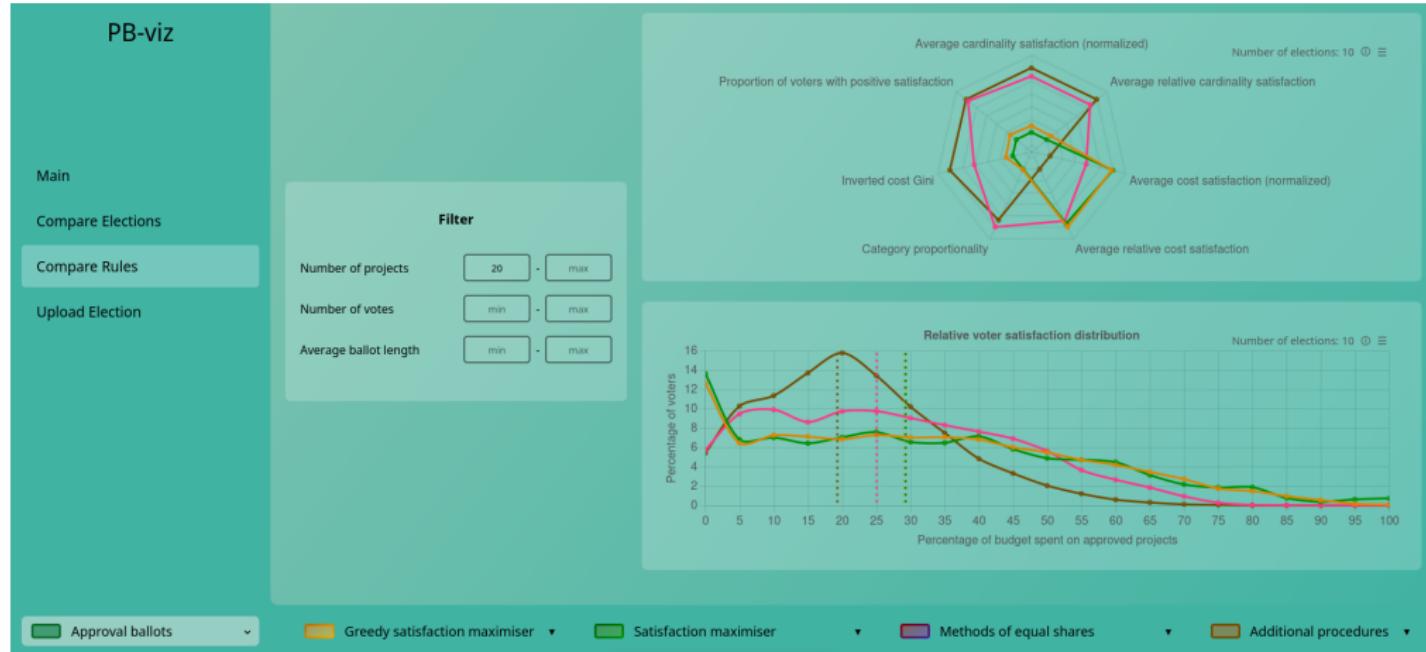


Markus Utke



Piotr Skowron

New-comer — pabuviz.org



Markus Utke



pabuviz.org



Simon Rey

New-comer — PrefSampling

prefsampling 0.0.2

pip install prefsampling 



Dernière version

Dernière version : 18 déc. 2023

github.com/Simon-Rey/prefsampling

A lightweight Python library that provides preference samplers.



Simon Rey



Stanisław Szufa

3. Success Story?



Keep the Tools Alive!

 spliddit.org

 pnyx.dss.in.tum.de

 robovote.org

Keep the Tools Alive!

- ✓ Enable better research for all
- ✓ Increase societal impact

 spliddit.org

 pnyx.dss.in.tum.de

 robovote.org

Keep the Tools Alive!

- ✓ Enable better research for all
- ✓ Increase societal impact

- ✓ Develop skills
- ✓ Increase diversity
- ✓ (Somewhat) provides fame

 spliddit.org

 pxnyx.dss.in.tum.de

 robovote.org

Keep the Tools Alive!

- ✓ Enable better research for all
- ✓ Increase societal impact

- ✗ Long to develop and to maintain
- ✗ Mildly recognised for one's academic career
- ✗ Vulnerable to the disappearance of a single person
- ✗ Hard to come by

- ✓ Develop skills
- ✓ Increase diversity
- ✓ (Somewhat) provides fame

 spliddit.org

 pxnyx.dss.in.tum.de

 robovote.org

PrefLib, a Community-Tool

Nick Mattei



Simon Rey



Moving PrefLib to the public domain

PrefLib, a Community-Tool

Nick Mattei



Simon Rey



Moving PrefLib to the public domain



Make yourself known if you are interested!

Community Discussion

- ✓ Enable better research for all
- ✓ Increase societal impact

- ✓ Develop skills
- ✓ Increase diversity
- ✓ (Somewhat) provides fame

✗ Long to develop and to maintain

✗ Mildly recognised for one's academic career

✗ Vulnerable to the disappearance of a single person

✗ Hard to come by

- How to ensure continuous development of new great projects?
- How to ensure long-term survival of currently existing great projects?
 - How to provide high visibility of great projects?