

PrefLib and the ComSoC Tools

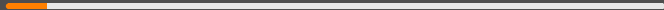
Simon Rey

January 18, 2023



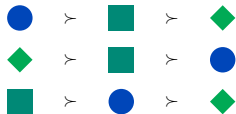
UNIVERSITEIT VAN AMSTERDAM

1. PrefLib

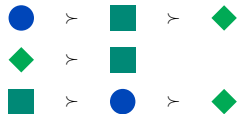


Library of Reported Preferences

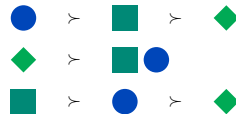
Strict Order Complete



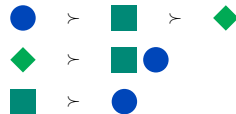
Strict Order Incomplete



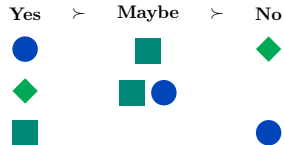
Tied Order Complete



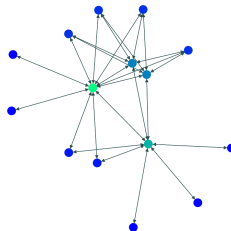
Tied Order Incomplete



Categorical



Weighted Matching (WMD)



58 Datasets, 13 734 Data Files

| 2002 French Presidential Election

- AAMAS Bidding Data
- AGH Course Selection
- APA Election Data
- Aspen Election Data
- Berkley Election Data
- Bourdigaues Good Ranking
- Boring
- Breakfast Items
- Burlington Election Data
- Cities Survey
- Clean Web Search
- Combined Power Ranking
- Computer Science Conference Bidding Data
- Countries Ranking
- Cycling Races
- Debian Project Data
- Education Surveys in Informatics (Cajiao)
- Electoral Reform Society (ERS) Data
- Formula 1 Races
- Formula 1 Seasons
- Glasgow City Council
- Global University Ranking
- Irish Election Data
- Kidney Data
- Marsden Path Selection
- Mechanical Turk Data
- Mechanical Turk Puzzle
- Mineswep Election Data
- Moveshub City Ranking
- Multitaps Competitions
- Nvidia Price Data
- NSW Legislative Assembly Election Data
- Oakland Election Data
- Parliamentary Elections
- Pierce Election Data
- Project Bidding Data
- Prois French Election
- Prois French Election Ratings - Rating
- San Francisco Election Data
- San Leandro Election Data
- San Sebastian Poster Competition
- Seasons Power Ranking
- State Data
- Sitting Competitions
- Social Recommendation
- Sportify Countries Chart
- Sportify Daily Chart
- Sushi Data
- T-Shirt
- Tablo Tennis Ranking
- Tahoe Park Election Data
- Tennis Ranking
- Trip Advisor Data
- UK Labor Party Leadership Race
- Wormat District Races
- Web Search
- Weeks Power Ranking

2002 French Presidential Election

00026

Election - Politics

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: [OlyaneNozais](#), [Omay1](#), [Omay5](#), [Omay6](#), [Omay7](#), [Omay12](#)

[Details](#)

[Download \[zip, 38.1 KB\]](#)

AAMAS Bidding Data

00037

Matching

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 SPIC 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 ProLib 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 *Rugier Bordini*, *Edith Elkind*, *John Zhangqiang*, and *David Shield* for approving, coordinating, and providing this dataset. The 2021 data has been generously provided by *Lile Endriscu*.

Consists of 3 data files: [AAMAS 2015](#), [AAMAS 2016](#), [AAMAS 2021 with roles](#)

[Details](#)

[Download \[zip, 20.1 KB\]](#)

AGH Course Selection

00009

Election

This dataset contains the results of surveying students at *AGU 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 Faliński*.

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

[Details](#)

[Download \[zip, 3.4 KB\]](#)

APA Election Data

00025

Election

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*.

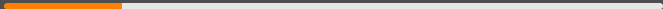
Consists of 12 data files: [APA_1998](#), [APA_1999](#), [APA_2000](#), [APA_2001](#), [APA_2002](#), [APA_2003](#), [APA_2004](#) and 5 more.

[Details](#)

[Download \[zip, 14.6 KB\]](#)

PrefLib

└ Brief History



{PrefLib}: A Library for Preferences

[Main
Tools](#)

[About](#)

[Papers](#)

[Data Formats](#)

[Data By Domain](#)

[Data By Type](#)

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](#) 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

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

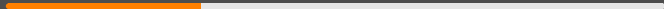
Other Links

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
2 | 0,Candidate 1
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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
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... | ...
```

New Format

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... | ...
```

Versatile metadata
section

New Format

New Data 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
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Alternatives start at 1

New Data Format

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... ..
```

Old Format

No puzzling line

Readable separation preference/count

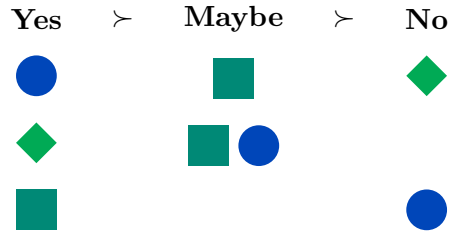
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... ..
```

New Format

Versatile metadata
section

Alternatives start at 1

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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➡ All Austrian parliamentary elections form 1994 to 2019 (9 elections)

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

➡ All Austrian parliamentary elections form 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 ❤️

github.com/PrefLib/preflibtools



Rechercher des projets

[Aide](#) [Sponsors](#) [Se connecter](#) [S'inscrire](#)

preflibtools 2.0.13

✓ Dernière version

`pip install preflibtools`

Dernière version : about 1 hour ago

A set of tools to work with preference data from the PrefLib.org website.

Navigation

Description du projet

Historique des versions

Téléchargement des fichiers

Liens du projet

Bug Tracker

Homepage

Description du projet

Preflibtools

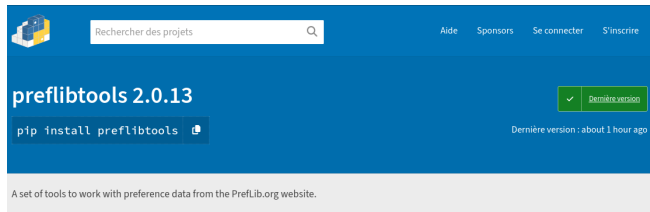
py3 v2.0.12 build passing codecov 92%

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....

github.com/PrefLib/preflibtools



The screenshot shows the GitHub repository page for PrefLibTools. The header is blue with a search bar and navigation links: Aide, Sponsors, Se connecter, and S'inscrire. The main content area has a blue background with the text 'preflibtools 2.0.13' and a green button labeled 'Dernière version'. Below this is a code snippet 'pip install preflibtools' and a note 'Dernière version : about 1 hour ago'. A light gray banner at the bottom states 'A set of tools to work with preference data from the PrefLib.org website.'

➞ Hosted on PyPI!

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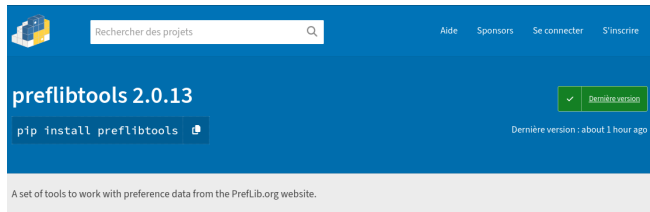
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The screenshot shows the PyPI project page for PrefLibTools. At the top, there's a search bar and navigation links: Aide, Sponsors, Se connecter, and S'inscrire. The main header displays 'preflibtools 2.0.13' with a green 'Dernière version' badge. Below this is a button that says 'pip install preflibtools'. A note indicates 'Dernière version : about 1 hour ago'. A description at the bottom reads: 'A set of tools to work with preference data from the PrefLib.org website.'

➞ Hosted on PyPI!

➞ Parser for all formats of preferences

Navigation

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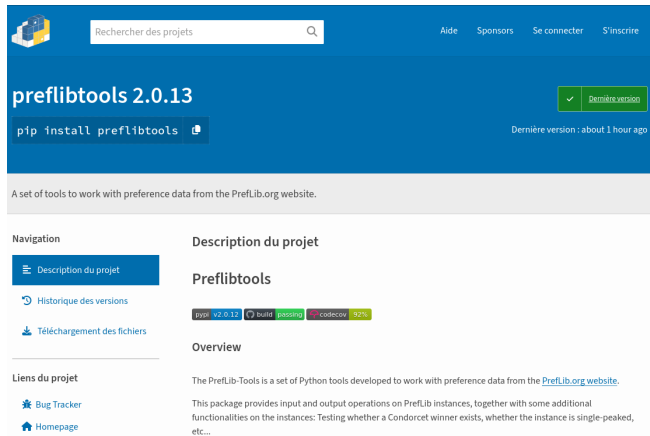
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The screenshot shows the PyPI project page for PrefLibTools. The header is blue with a search bar and navigation links. The main section features the project name 'preflibtools 2.0.13' and a green 'Dernière version' badge. Below this is a button to 'pip install preflibtools'. A description states it's a set of tools for preference data. The left sidebar contains navigation links like 'Description du projet', 'Historique des versions', and 'Téléchargement des fichiers'. The right section has a 'Description du projet' heading, the project name 'Preflibtools', and a progress bar for build status. An 'Overview' section follows, describing the tools as Python-based for working with preference data from the PrefLib.org website.

Rechercher des projets

Aide Sponsors Se connecter S'inscrire

preflibtools 2.0.13 Dernière version

`pip install preflibtools`

Dernière version : about 1 hour ago

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Navigation

- Description du projet
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Description du projet

Preflibtools

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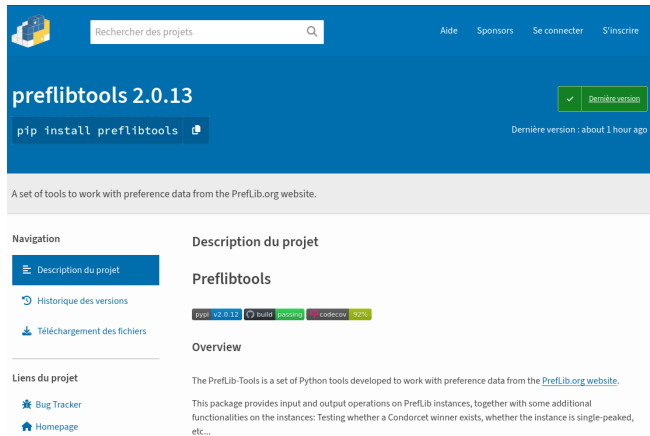
Overview

The PrefLib-Tools is a set of Python tools developed to work with preference data from the [PrefLib.org website](https://preflib.org).

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

github.com/PrefLib/preflibtools



The screenshot shows the PyPI project page for PrefLibTools 2.0.13. The header is blue with a search bar and navigation links. The main content area has a blue background with the project name and version. A green badge indicates it's the latest version. Below the header, there's a description and a navigation sidebar. The sidebar includes links to the project description, version history, and file downloads. The main content area also has a description, a list of supported Python versions, and an overview section.

Rechercher des projets

Aide Sponsors Se connecter S'inscrire

preflibtools 2.0.13 Dernière version

`pip install preflibtools`

Dernière version : about 1 hour ago

A set of tools to work with preference data from the PrefLib.org website.

Navigation

- Description du projet
- Historique des versions
- Téléchargement des fichiers

Liens du projet

- Bug Tracker
- Homepage

Description du projet

Preflibtools

python 3.7 3.8 3.9 3.10 3.11 3.12 build passing codecov 92%

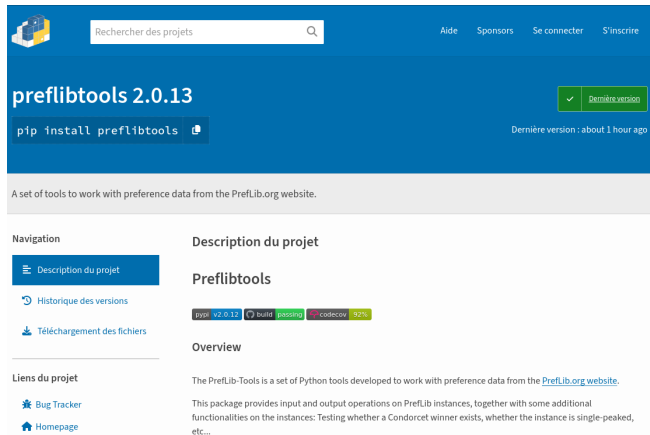
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- Parser for all formats of preferences
- Basic properties checks
- Backward-compatible

github.com/PrefLib/preflibtools



The screenshot shows the GitHub repository page for PrefLibTools. The header is blue with a search bar and links for Aide, Sponsors, Se connecter, and S'inscrire. The main section features the repository name 'preflibtools 2.0.13' with a green 'Dernière version' badge and a 'pip install preflibtools' button. Below this is a description: 'A set of tools to work with preference data from the PrefLib.org website.' The left sidebar contains a 'Navigation' section with links to 'Description du projet', 'Historique des versions', and 'Téléchargement des fichiers', and a 'Liens du projet' section with links to 'Bug Tracker' and 'Homepage'. The right section, titled 'Description du projet', includes a 'Preflibtools' section with badges for 'pypi v2.0.12', 'build passing', and 'codecov 92%', and an 'Overview' section with a brief description of the tools.

Rechercher des projets

Aide Sponsors Se connecter S'inscrire

preflibtools 2.0.13 Dernière version

`pip install preflibtools`

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- 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

`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



PrefLib-Django

Source of the PrefLib.org website (Django project)

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



PrefLib-Django

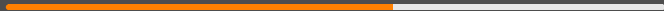
Source of the PrefLib.org website (Django project)



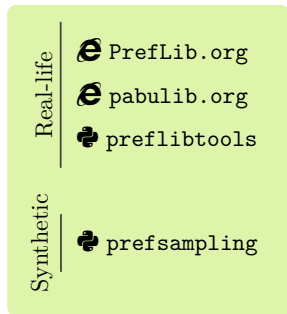
PrefLib-Contrib

A repository to keep track of contributions and TODO's

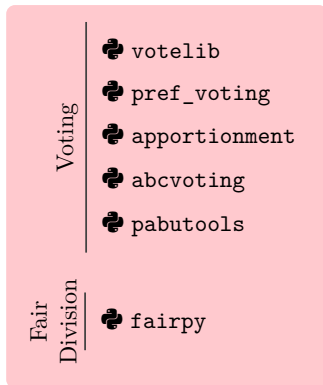
2. Other Tools



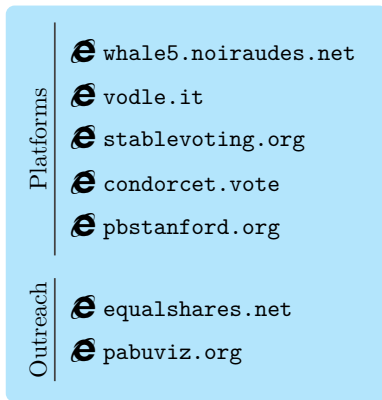
The ComSoC Ecosystem



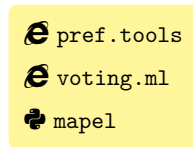
Preference Data



Aggregation



Application



Analysis

pabutools 1.1.4



Dernière version

```
pip install pabutools
```



Dernière version : 6 déc. 2023

github.com/pbvoting/pabutools

A complete set of tools work with participatory budgeting instances.



Simon Rey



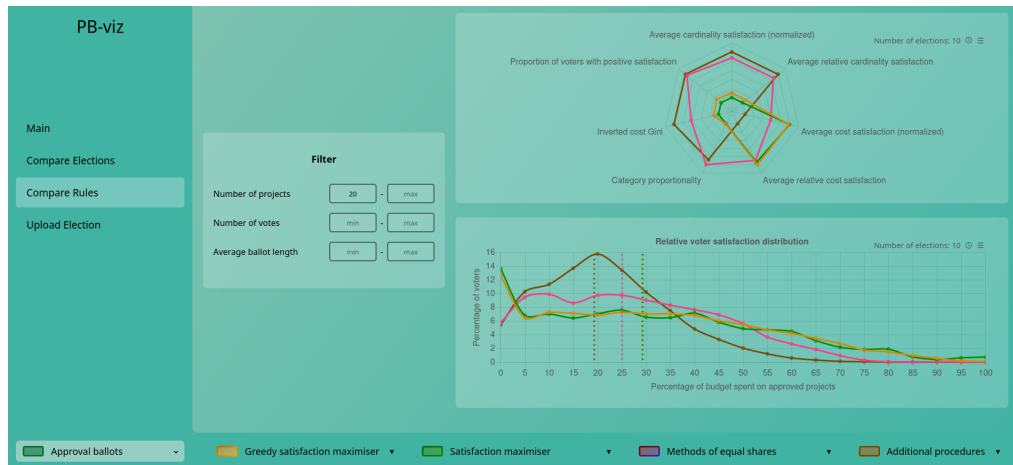
Grzegorz Pierczyński



Markus Utke



Piotr Skowron



Markus Utke



pabuviz.org



Simon Rey

prefsampling 0.0.2

[Dernière version](#)

```
pip install prefsampling
```



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

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Keep the Tools Alive!

- ✓ 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

💀 `spliddit.org`

💀 `pnyx.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

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✗ 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?

Afterthoughts? Reach out at s.j.rey@uva.nl