Demo: Displaying Justifications for Collective Decisions

1. Define a Voting Scenario
   - Add Alternatives
   - Add Ballots

2. Set up the Search
   - Select Outcome
   - Select Axioms

3. Explore the Justification
   - Step-by-Step Explanation
   - Provide Feedback

Arthur Boixel
Ulle Endriss
Oliviero Nardi

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Automated Justification
Enter a profile of preferences and choose an outcome. Then ask the computer to find a convincing justification for your choice.

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Automated Justification
Now define the profile of preferences. To add a new ballot, click on "add ballot" and then click on the alternatives on the left to rank them. You can click on an already-ranged alternative to reverse it. The numbers indicate the number of voters expressing a given preference.

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Automated Justification
Here is the profile of preferences you have specified:

1. Amaranie > Chiatti > Brunello
2. Brunello > Amaranie > Chiatti
3. Brunello > Chiatti > Amaranie
4. Chiatti > Brunello > Amaranie

We will now ask the computer to find a justification for an outcome. First, choose the outcome (you can indicate a tie by clicking multiple winners). Then, choose the normative principles you want the computer to use in the justification.

Winners:
- Amaranie
- Brunello
- Chiatti
- None

Principles:
- Condorcet
- Independence
- Pareto
- Monotonicity
- Non-reversal

Automated Justification
In profile b, alternative Amaranie is Pareto-dominated. Hence, it cannot be among the winners.

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