



ioVote Documentation



Charts

The **Charts** page provides a visual summary of voting results for each session. These charts are generated server-side using Matplotlib and reflect a static snapshot of the voting data at the time of the request. They offer a clear, visual interpretation of how votes were distributed during the session.

Currently, four types of charts are supported:

1. Bar Chart – Votes per Option

Displays the total number of votes each Option received in a given voting session.

Use case: Quickly compare Option popularity by count.

2. Pie Chart – Vote Share by Option

Shows each Option's share of the total votes as a percentage.

Use case: Understand vote distribution at a glance.

3. Line Chart – Voting Activity Over Time

Plots the number of votes cast over time within a session.

Use case: Spot peaks and patterns in voter activity.

4. Turnout Chart – Voted vs Registered Users

Compares how many registered users actually voted in the session.

Use case: Measure overall participation and engagement.

Where to View Charts

Charts are available during and after a voting session.

Live example:

https://iovote.onrender.com/voting_sessions/session/2/charts/

Replace 2 with the ID of any voting session.

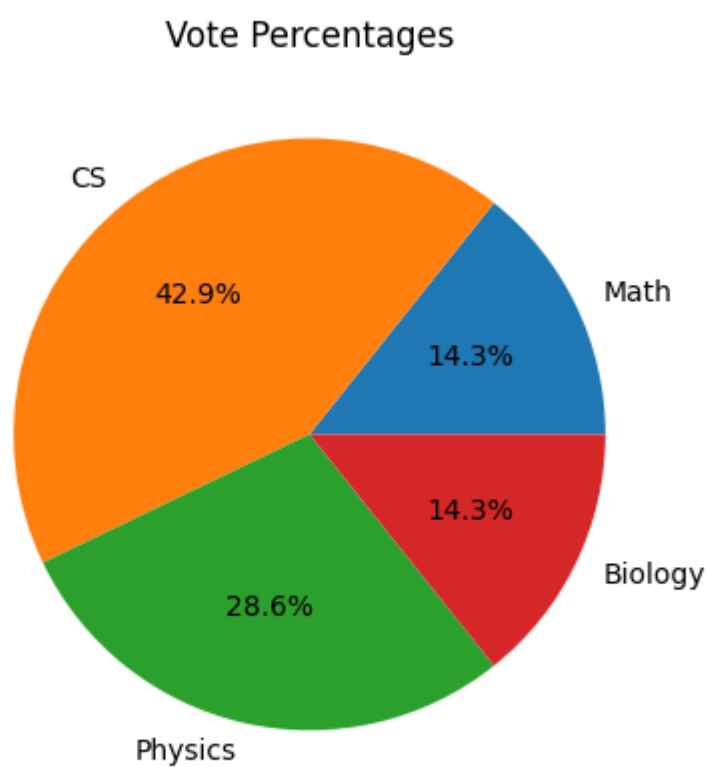
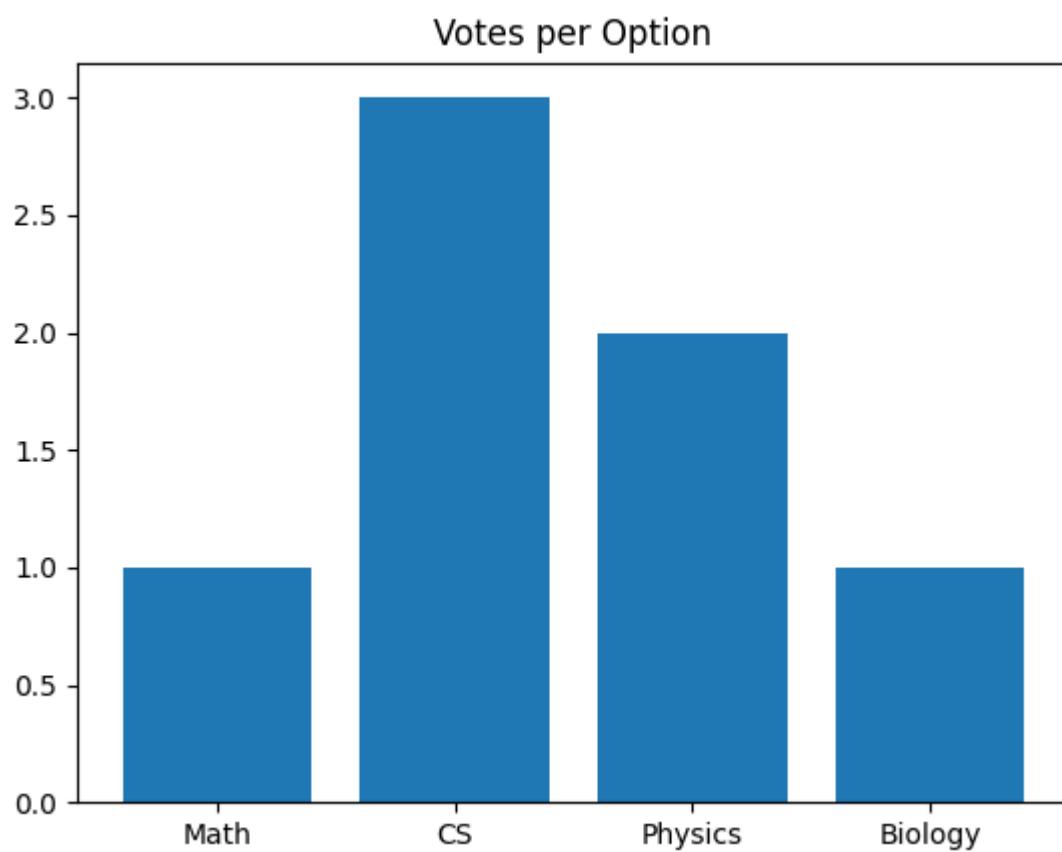
Relative path (for developers): `/voting_sessions/session//charts/`

Chart Previews (Optional)

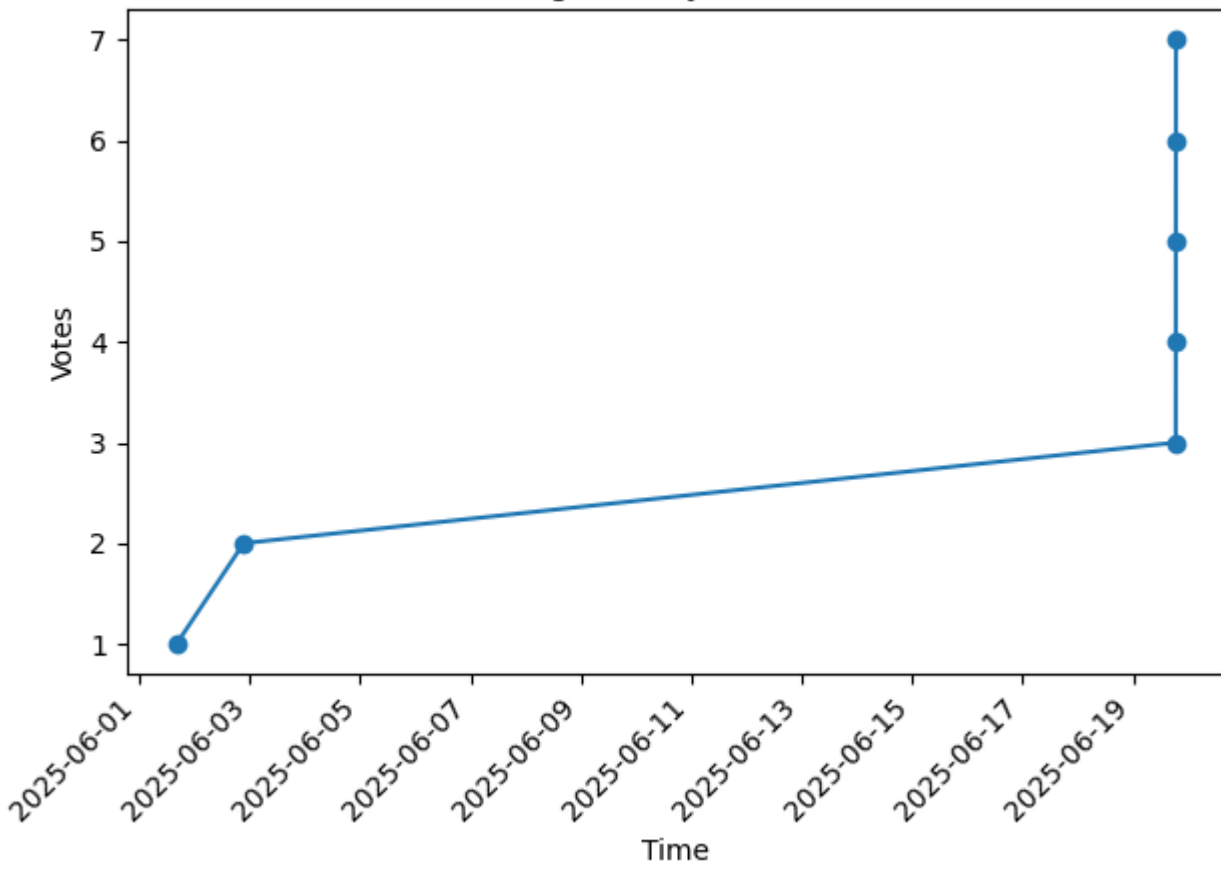
You may include screenshots of each chart type here for documentation or PDF purposes.

To enable once images are added:

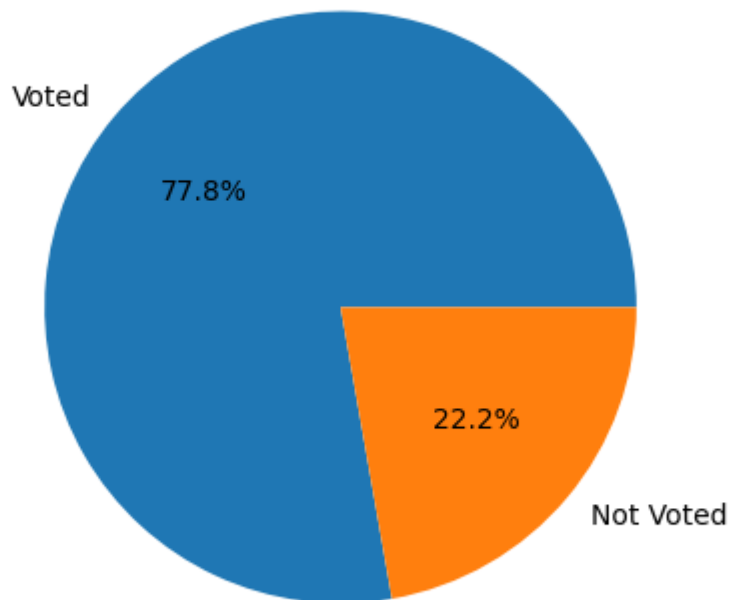
Example Previews



Voting Activity Over Time



Voter Turnout



☑ Technical Notes

- Charts are generated using **Matplotlib** on the Django backend.
- They are returned as static PNG images embedded in the results page.
- No JavaScript or interactivity is used — this keeps the charts lightweight and server-driven.

☑ Future Enhancements

- Introduce interactive charts using JavaScript libraries (e.g., Chart.js, Plotly)
- Enable image or PDF export of individual charts
- Add multi-session comparisons for analytics

Need help extending chart features or including visuals in your PDF documentation? Just let us know.