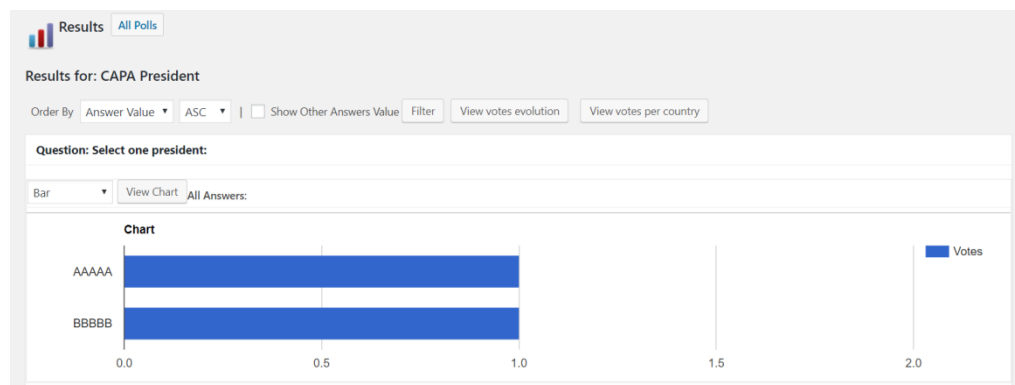


## What are the security measures for the online election?

The website has implemented a secure user management system. Only active registered members (lifetime members and active regular 2018 members), who have successfully logged in, have access to the Election Page.

## How are ballots counted?

The entire voting process is administrated by YOP Poll, a popular polling Plugin for Wordpress (the CAPA website is based on Wordpress framework). When you cast your vote, YOP Poll performs a number of checks to make sure the vote does not violate any rules (duplicate votes, too many or too few candidates selected, etc). After the election ends, YOP Poll automatically creates a statistical report like this one below. There is no manual counting of any kind involved in this process.



Web Administrator, and anyone granted administrator privilege (such as third-party witnesses, if so desired), will be able to login and view the results. The integrity of election is guaranteed by YOP Poll. You may learn more about YOP Poll at its website <https://wordpress.org/plugins/yop-poll/>

## What are the advantages of YOP Poll compared to SurveyMonkey?

The past 2017 CAPA election was conducted through [www.surveymonkey.com](http://www.surveymonkey.com). First, YOP Poll does not rely on email communication. With SurveyMonkey, if a member does not receive or loses the email containing a link to voting page, he or she will not be able to vote. It can be a problem because junk mail filters often block SurveyMonkey emails. With YOP Poll, users simply login and vote. Second, YOP Poll protects privacy better. Each vote is recorded in the system with a random "vote\_id" combined with voter's IP address and a timestamp. SurveyMonkey, on the other hand, records votes by voter's real name and email address. Third, SurveyMonkey is a paid subscription. In order to keep access to old voting data, a monthly premium fee must be paid infinitely. YOP Poll only charges a one-time installation fee.

## How is my privacy protected?

As the previous picture shows, YOP Poll results are shown as simple statistics. Individual voter's identity is hidden inside its backend database and cannot be exposed. Theoretically, someone with technology expertise could hack into the system and decode the data; however, that would require tremendous efforts and is unlikely a concern for non-profit organizations.

### Is it possible to perform some sort of “manual verification” of the results?

The answer is not straightforward. Since poll results are compiled by software automatically, and there are no paper ballots for manual counting, it is unclear what would qualify as manual verification. However, certainly, any designated person (e.g., person or persons determined by election committee) can login as web administrator and view the results first-hand by themselves. Furthermore, it is also possible to view all votes designated by “vote id” (NOT voter id) as shown in the following image. A very motivated person could then click through each vote, and use paper/pencil or a calculator to “manually” add the votes up to see if the sum matches the YOP Poll statistics. It would be highly unusual if they do not match 😊

<input type="checkbox"/>	Vote ID	User Type	Ip	Vote Date	
<input type="checkbox"/>	vote_id_5a5c35587c49b	wordpress	99.58.105.62	2018-01-14 22:00:10	-
Questions Select one president: AAAAA.					
<input type="checkbox"/>	vote_id_5a5ae562e986d	wordpress	99.102.107.81	2018-01-13 22:06:45	+
<input type="checkbox"/>	vote_id_5a5ac34c09f6f	wordpress	24.107.76.155	2018-01-13 19:41:16	+
<input type="checkbox"/>	vote_id_5a5cad3f7929a	wordpress	162.207.132.169	2018-01-15 06:31:44	+
<input type="checkbox"/>	vote_id_5a5cb5cd40a75	wordpress	12.68.169.114	2018-01-15 07:08:13	+
<input type="checkbox"/>	Vote ID	User Type	Ip	Vote Date	

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