# README: Using the Ranked Choice Voting System

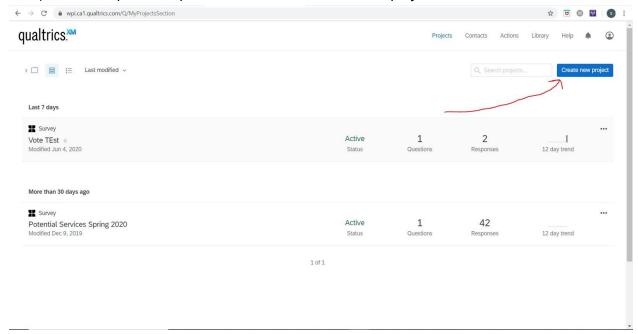
## Updated by Patrick Roche, B-term 2020

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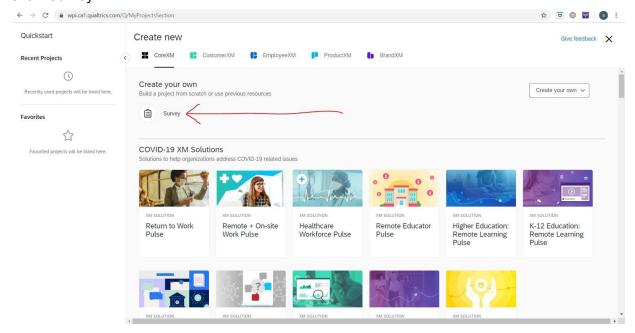
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### Making a Ranked-Choice Election Survey

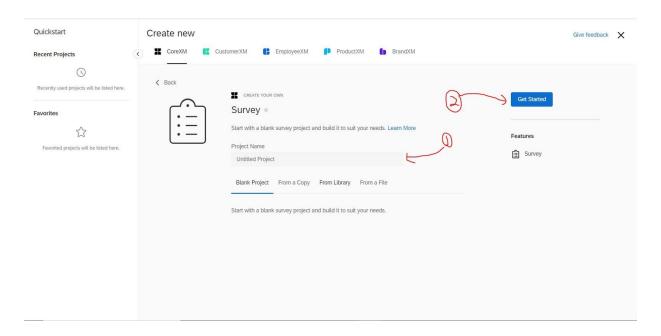
- 1) Go to wpi.qualtrics.com
- 2) For each position up for election, click "Create New project"



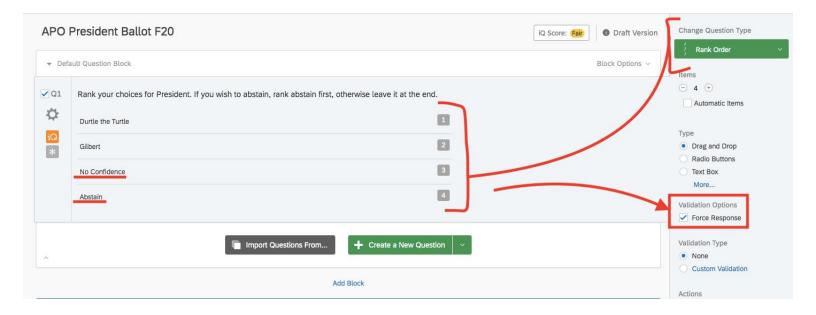
3) Click 'Survey'



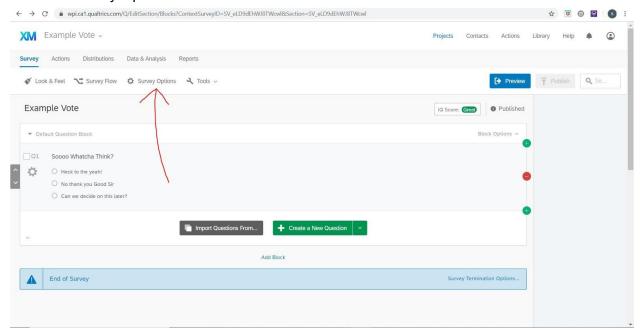
4) Name the project using the template "APO [Position] Ballot [Semester, Year] and click 'Get Started'



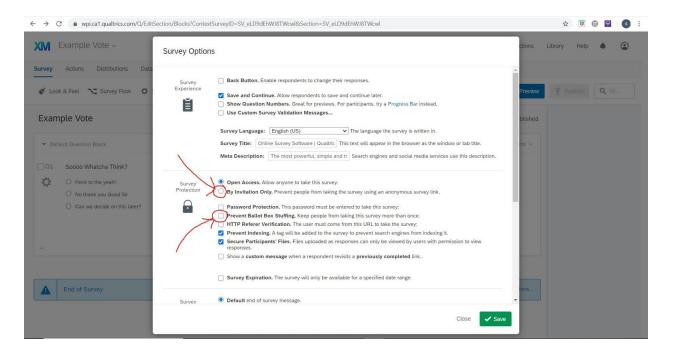
In each survey, create one question with the "Rank Order" type. Each candidate for the position should be listed as a choice. **IMPORTANT NOTE: One choice MUST be "No Confidence"**. One choice MUST be "Abstain", spelled with a capital A. The question must have the "Force Response" box checked to ensure that blank ballots are not submitted by accident.



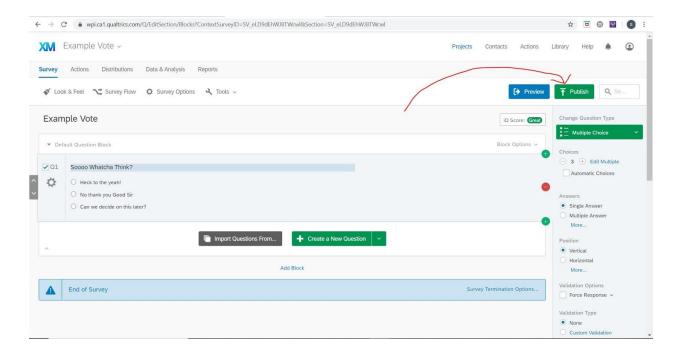
5) Click the 'Survey Options' button



Make sure the following options are checked: "By Invitation Only" and "Prevent Ballot Box Stuffing", together these will prevent double votes. Save these options (This step is optional, but prevents double voting by any means)

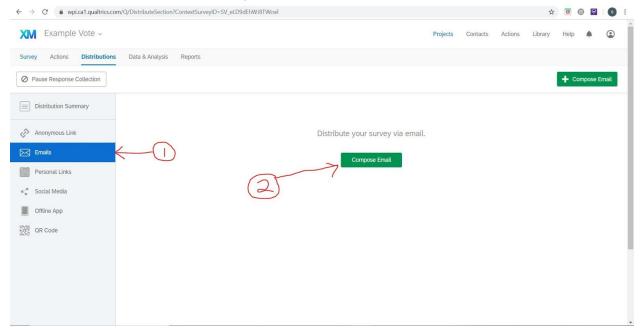


#### 6) Click Publish

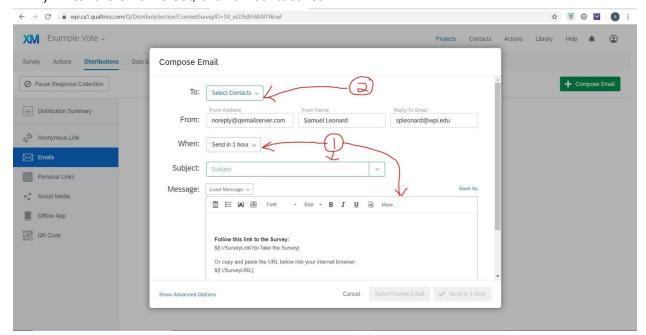


### Sending the Ballot to the Chapter

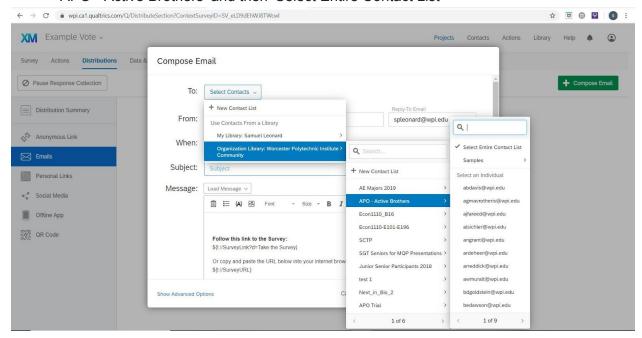
- 1) Click "Distributions"
- 2) Click on 'Emails' if not already selected, then 'Compose Email'



- 3) Alter the Settings. All are pretty obvious, this will be going to the chapter so make sure to add [APO] in the subject. Also, it's probably best to send the 'send time' to 'now'.
- 4) After the email is set, click on contact list



5) Click on 'Organization Library: Worcester Polytechnic Institute Community' and then 'APO - Active Brothers' and then 'Select Entire Contact List'

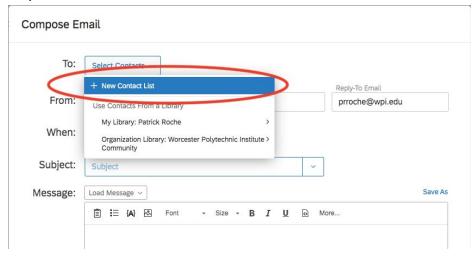


IF THIS IS THE FIRST TIME THIS IS BEING USED EACH SEMESTER (OR TERM IF THERE WERE APPEALS), THIS EMAIL LIST MUST BE UPDATED (See next section)

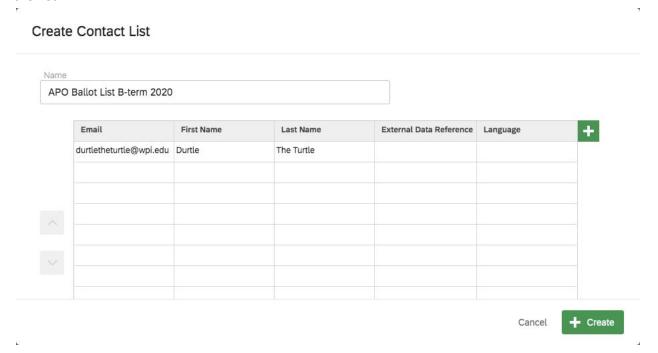
### **Updating the Ballot List**

NOTE FOR CHAIR: This task will likely be handled by the President and/or Sergeant at Arms, but you should be aware of how to do it.

1) In the "Compose email" menu, click on "New Contact List".

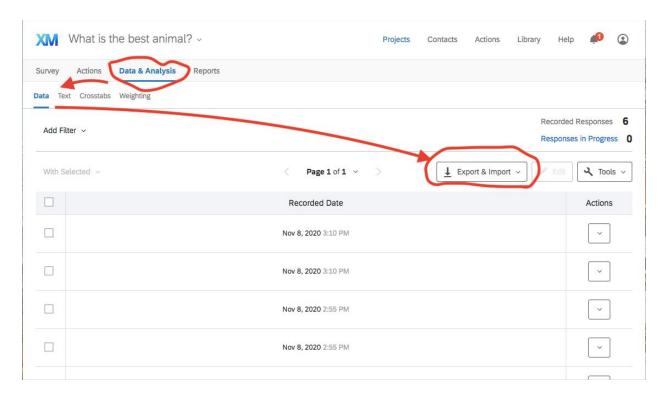


2) Fill in the updated contact list with the names and contact information of voting-eligible brothers for the term of interest. Name the Contact list using the template "APO Ballot List [Term] [Year]". Once every eligible brother has been added, click "create" to finalize the list.

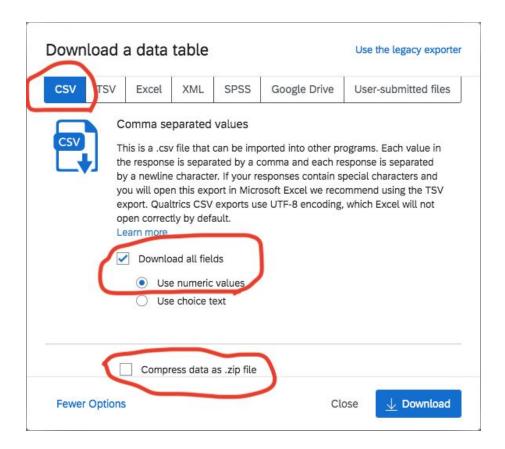


## Processing Ranked-Choice Results

1) Once everyone has voted in each survey, go to each survey and click "Data & Analysis" --> "Data" --> "Export and Import Data" dropdown menu



3) Click on "Export Data" in the dropdown menu. Export the data table as a .csv file using numerical values. Deselect the compress file button, as the downloaded .zip sometimes does not contain the .csv.



- 4) Download the election results data and rename it "Data.csv". Move this file to the same directory as the InstantRunoff.py script file from the <u>Voting Systems Github repository</u>. Run the script in your environment of choice to output the winner of each election. Please note that the script uses the pandas library, and that your Python environment must have access to that library for the script to run.
- 5) The script will print a message declaring the winner of the race!