Ballot designs for Balanced Ranked Choice Voting

Candidates	1 st choice	2 nd choice	3 rd choice	4 th choice
Adam	Yes No	Yes No	Yes No	Yes No
Barbara	Yes No	Yes No	Yes No	Yes No
Craig	Yes No	Yes No	Yes No	Yes No
Denise	Yes No	Yes No	Yes No	Yes No

Ballot Design W	
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Each voter may choose either YES or NO for each candidate and rank the choice. In the above example, the NO vote against Barbara will be counted as minus 1. If Barbara is eliminated in the first round, this voter's vote will be added to his/her second choice which is a YES vote for Craig (unless Craig is also eliminated, then the vote will be added to 3rd choice Adam and so on).

If, in spite of this voter's NO against Barbara, she survives through the last round, this voter's NO vote will still be counted in the last round.

Algorithm of Balanced Ranked Choice Voting

(Note that this does NOT rule out the probability that some winner will emerge with a majority of 50%+1.)

- 1. Sort the ballots by first choice. If someone's positive votes is a majority (of all votes cast for all candidates), he/she wins. Otherwise the candidate who has the least net favorability (YES vote minus NO votes) is eliminated.
- Transfer each of those ballots to the next choice still in the running. If someone's positive vote is a majority of all the votes after re-allocation, he/she wins. Otherwise the candidate who has the least net favorability (YES vote minus NO votes) is eliminated.
- 3. Repeat step 2 until there are only two candidates left, if someone's positive vote is a majority of all the votes after re-allocation, he/she wins. If neither one gets positive vote count that is a majority of all votes cast, the one with higher net positive vote wins

If no candidate gets a net positive vote, the election will be re-held and previously

rejected candidates may not participate in the second round. This possibility is very remote in any large election district because we have partisan politics and loyal partisan voters who will vote YES and not all non-partisan voters will vote NO. The research surveys we have done to-date have all shown total negative votes are fewer than total positive votes.

Another two potential ballot designs, these should not require any significant additional cost of altering existing RCV ballot machine?

Candidate	1 st choice	2 nd choice	3 rd choice	4 th choice
For Adam				
For Barbara				
For Craig				
For Denise				
Against Adam				
Against Barbara				
Against Craig				
Against Denise				

Ballot Design X

Ballot Design Y

Candidate	1 st choice	2 nd choice	3 rd choice	4 th choice
For Adam				
Against Adam				
For Barbara				
Against Barbara				
For Craig				
Against Craig				
For Denise				
Against Denise				