

"The idea is that your vote should be just as powerful as mine, no matter who you are, where you live, or how many candidates are on your side."



THE PROBLEM







- opposed by the majority to win.
- who they think is the most "electable."

In the current system, and in Ranked Choice, any time there are more than two candidates in a race, vote-splitting can leave majority coalitions divided and conquered, allowing a candidate

To avoid a worst-case-scenario, voters must strategically vote for the candidate on their side







LEVELING THE PLAYING FIELD

- Strategic incentives driven by vote-splitting magnify implicit biases and other barriers to representation.
- Those deemed "electable" are usually those who raised the most money, incumbents, those with name recognition.
 - Voting methods which advantage those deemed most electable will continue to uphold serious disparities in representation, regardless of public opinion.

In 2019, 62% of elected offices in the US were white men, despite the fact that this group only comprises 30% percent of the population.

White Male Minority Rule by the Numbers

0



https://wholeads.us/research/system-failure-2020-primary-elections/

White Men: census vs. officeholders 58% 60% 63% 67% 72% 76% 30 50 70 20 40 60 10 80

WHAT DO WE WANT IN A VOTING METHOD?

Simple: easy to vote, easy to understand results, easy to tally, implement, and audit.

Honest: safe to vote your conscience. Incentivizes good voter behavior.

Expressive: voters are able to express their full opinion.

Accurate: winners reflect the will of the people as best as possible.

Equal: The system does not put some types of voters or candidates at an unfair advantage.

Accurate

Equal

Simple

Choose-One Voting

Honest

Approval STAR Voting Voting Condorcet Methods

> Ranked Choice

Expressive

WHAT IS STAR VOTING?

Score • Then • Automatic • Runoff

With STAR Voting you only have to vote once, and the ballots are counted in a two step process:

Scoring Round: the two highest scoring candidates are finalists.

Automatic Runoff: your vote automatically goes to the finalist you scored higher. The finalist preferred by the majority wins.

How does STAR Voting work?

Scoring Round

The two highest scoring candidates are finalists.

Candidates:	Scores:
Cassie 合合合合金	1,624,057
Ben ☆☆☆☆☆☆	892,103
Erin ☆☆☆	723,099
Andy ☆☆	533,768
Daniel	19,463

Cassie and Ben advance to the Automatic Runoff.

Your vote goes to the finalist you prefer.

Andy	0	(1
Ben	0	•
Cassie	0	(1
Daniel	0	(1
Erin	•	(1

This vote goes to Cassie because she was scored higher than Ben.

Automatic Runoff

Results

The finalist preferred by the majority wins!

Each ballot counts as one vote.

Whether or not your favorite can win, your vote goes to the finalist you prefer!

- There are a number of ways to tally a ranked ballot.
- elected the candidate preferred over all others.
- if possible when candidates are eliminated.
- strong underdogs.
- Competitive elections are the most likely to fail.

WHAT IS RANKED CHOICE VOTING?

Originally ranked choice elections counted all the rankings and

150 years ago IRV was proposed as a work around to make hand counting easier, though it gets less representative outcomes.

In IRV, the top choice for each voter is counted and votes transfer,

Most rankings given are not counted. Some voters will have their next choice counted if their favorite is eliminated. Others will not.

Selectively **ignoring ballot data can skew election results** and disadvantage certain voters, especially those whose favorites are

The candidate preferred over all others can lose in a RCV election.

Score	Д.	R EN - /	V	D]				
 Give your fay Give your las Show prefere Equal scores Those left blace 	vorite(ance o indica	(s) five ce(s) order a ate no ceive	e stars zero s nd lev prefei zero s	s. tars. vel of rence tars.				
	Wor	st						
Score Candidates:	0	1	2	3				
Abby	0	1	2	3				
Ben		1	2	3				
Carmen	0	1	2	3				
DeAndre	0	1	2	3				
Eric	0		2	3				
The two highest scoring candidates a Your vote goes to the the finalist yo								

Ranked Choice Voting aka Instant Runoff Voting

Rank candidates in order of preference. You can't give the same ranking twice.

Rank Candidates:	1st	2nd	3rd	4th	5th	6th	
Abby	1	2		4	5	6	
Ben	1	2	3	4		6	
Carmen		2	3	4	5	6	
DeAndre	1		3	4	5	6	
Eric	1	2	3		5	6	

First choice votes are counted and the candidate who came in last place is eliminated. This process continues in tournament style rounds. In each round, ballots for the eliminated candidate are reallocated to the voter's next remaining choice, if possible. If the next choice has already been eliminated then the ballot is 'exhausted' and does not count in subsequent rounds.

RANKED CHOICE RESULTS

Tabulation requires as many round as there are candidates, -1. Top ranks are counted and votes transfer if possible. • In this election 105,769 ballots were exhausted by the final round. Over 10% of ballots are exhausted on average.

Ranked-Choice Voting Official Final Accumulated Results - Mayor of Oakland

Official Final Accumulated results last updated: Friday, November 19, 2010

Accumulated Results Detail (PDF) **

Ballot Image File (TXT)

Master Lookup File (TXT) Ballot Image Help (PDF) **

		Round	1	F	Round	2	G	lound	3	F	lound	4		Round	5	F	Round	6	6	lound	7	F	Round	8		Round	9	R	ound	10
	Votes	%	Transfer	Votes	%	Transfer	Votes	%	Transfer	Votes	%	Transfer	Votes	%	Transfer	Votes	%	Transfer	Votes	%	Transfer	Votes	%	Transfer	Votes	%	Transfer	Votes	%	Transfer
DON PERATA	40342	33.73%	+32	40374	33.80%	+81	40455	33.90%	+151	40606	34.08%	+122	40728	34.24%	+86	40814	34.39%	+550	41364	35.08%	+824	42188	36.13%	+3277	45465	40.16%	+6407	51872	49.04%	0
TERENCE CANDELL	2315	1.94%	+1	2316	1.94%	+70	2386	2.00%	+111	2497	2.10%	+116	2613	2.20%	+67	2680	2.26%	-2680	0	0.00%	0	0	0.00%	0	0	0.00%	0	0	0.00%	0
GREG HARLAND	966	0.81%	+2	968	0.81%	+91	1059	0.89%	+28	1087	0.91%	-1087	0	0.00%	0	0	0.00%	0	0	0.00%	0	0	0.00%	0	0	0.00%	0	0	0.00%	0
DON MACLEAY	1630	1.36%	+6	1636	1.37%	+41	1677	1.41%	+42	1719	1.44%	+133	1852	1.56%	-1852	0	0.00%	0	0	0.00%	0	0	0.00%	0	0	0.00%	0	0	0.00%	0
JEAN QUAN	29266	24.47%	+33	29299	24.53%	+92	29391	24.63%	+123	29514	24.77%	+131	29645	24.93%	+855	30500	25.70%	+384	30884	26.19%	+771	31655	27.11%	+3378	35033	30.94%	+18864	53897	50.96%	0
ARNOLD FIELDS	733	0.61%	+5	738	0.62%	-738	0	0.00%	0	0	0.00%	0	0	0.00%	0	0	0.00%	0	0	0.00%	0	0	0.00%	0	0	0.00%	0	0	0.00%	0
JOE TUMAN	14347	12.00%	+10	14357	12.02%	+114	14471	12.13%	+81	14552	12.21%	+228	14780	12.43%	+169	14949	12.60%	+253	15202	12.89%	+260	15462	13.24%	-15462	0	0.00%	0	0	0.00%	0
MARCIE HODGE	2994	2.50%	+5	2999	2.51%	+34	3033	2.54%	+122	3155	2.65%	+45	3200	2.69%	+50	3250	2.74%	+375	3625	3.07%	-3625	0	0.00%	0	0	0.00%	0	0	0.00%	0
LARRY LIONEL "LL" YOUNG JR.	933	0.78%	+6	939	0.79%	+37	976	0.82%	-976	0	0.00%	0	0	0.00%	0	0	0.00%	0	0	0.00%	0	0	0.00%	0	0	0.00%	0	0	0.00%	0
REBECCA KAPLAN	25813	21.58%	+18	25831	21.62%	+59	25890	21.69%	+136	26026	21.84%	+91	26117	21.96%	+379	26496	22.32%	+335	26831	22.76%	+644	27475	23.53%	+5244	32719	28.90%	-32719	0	0.00%	0
Write-In	268	0.22%	-268	0	0.00%	0	0	0.00%	0	0	0.00%	0	0	0.00%	0	0	0.00%	0	0	0.00%	0	0	0.00%	0	0	0.00%	0	0	0.00%	0
Exhausted by Over Votes	355		+1	356		+6	362		+9	371		+5	376		+4	380		+21	401		+15	416		+45	461		+65	526		0
Under Votes	2306		0	2306		0	2306		0	2306		0	2306		0	2306		0	2306		0	2306		0	2306		0	2306		0
Exhausted Ballots	0		+149	149		+113	262		+173	435		+216	651		+242	893		+762	1655		+1111	2766		+3518	6284		+7383	13667		0
Continuing Ballots	119607	100.00%		119457	100.00%		119338	100.00%		119156	100.00%		118935	100.00%		118689	100.00%		117906	100.00%		116780	100.00%		113217	100.00%		105769	100.00%	
TOTAL	122268		0	122268		0	122268		0	122268		0	122268		0	122268		0	122268		0	122268		0	122268		0	122268		0
REMARKS	*Tie resolved in accordance with election law.																													

Comprehensive Report (PDF) **

STAR Voting is tallied in 2 rounds: 1.) Add up the stars. 2.) Add up the votes.

STAR Voting Election Results

Peter Nordbye	
Spencer Trumm	
Shani Harris-Bagwell	
Sucheta Bal	
Ami Fox	
Gary Lietke	
Mary Schutten	
Daniel Goetz	
Faith Ruffing	
Tracy Farwell	

STAR RESULTS

for Democratic Party of Oregon Platform Committee: Peter Nordby wins.											
Total Stars	Runoff Votes										
200	15										
190	10										
185											
173											
153											
153											
142											
130											
138											
119											

THE EQUAL VOTE CRITERION

Voting methods that pass the Equal Vote Criterion eliminate vote-splitting

Ensuring an Equal Vote can be done with any ballot if you: Allow voters to support as many candidates as they like. Allow voters to support candidates equally. • Count all ballot data given.

Choose-One Plurality (Current System)

Ranked Choice Voting (Instant Runoff Voting version)

Single Transferable Vote (Proportional Ranked Choice)

MEASURING PUBLIC OPINION

https://electowiki.org/wiki/2012 Occupy Wall Street polls Note: Political leanings of participants are not expected to be representative of the general population.

ACCURATE REPRESENTATION

Nonpartisan?

Nonpartisan Elections

Partisan Elections

Number of Winners?

Multi-winner

Proportional Representation

Primaries?

Without primaries

STAR Voting top 5 primary and general election

Districting?

Single-winner districts

Multi-member districts

Election Integrity?

No centralized tabulation

Risk-Limiting Auditable

No new voting machines or new hardware

Quick and transparent results

DISTRICTS OR PROPORTIONAL REPRESENTATION?

DISTRICTS:

PROS

Strong local representation. Easier to run grassroots community

- rooted campaigns.
- Simple and transparent.
- Good accountability for voters, a majority is all that's needed to vote someone out.
 - Historically leads to better representation for people of color.

CONS

- No guarantee of ideological diversity.
 - Elected officials must represent people who they may not agree with.

PROPORTIONAL REPRESENTATION:

PROS

they agree with. currently.)

CONS

Less local representation. Expensive and complex to implement. Less transparent results.

• Diversified ideological representation matches makeup of the electorate. Most voters will have someone elected who

Increased representation for currently underrepresented ideologies. (Conservatives are county's largest underrepresented group

• Can be done with STAR-PR to pair with a great single-winner method.

WHERE IS STAR VOTING UNDER CONSIDERATION?

SASKATCHEW AN

Massachusetts **New York**

North Carolina

Savannah

*Map slightly squished

Vovo

Scoti

LET'S LEAD ON THIS ISSUE!

Learn more at starvoting.us

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EURIER NEORVAION

For more information on Equal Vote Coalition and Star Voting, find us on our websites! Equal Vote : <u>equal.vote/</u> STAR Voting: <u>starvoting.us/</u>

Voting Simulation Visualizations: <u>starvoting.us/accuracy</u> STAR Voting and Ranked Choice Voting: <u>equal.vote/star-vs-rcv</u>

Connect on social media: Facebook

Equal Vote: <u>facebook.com/EqualVote</u>

Twitter:

STAR Voting: <u>twitter.com/5starvoting</u> Equal Vote: twitter.com/TheEqualVote

Instagram: STAR Voting: instagram.com/starvoting/

Want to get into the science that drove us to STAR voting, and is the basis of our movement?

STAR Voting: <u>facebook.com/starvoting</u>

A GUIDE FROM THE EQUAL VOTE **COALITION:**

Choose the best voting method for the job, whether you're electing a president, a board of directors, a parliament, or picking out a wedding cake.

Depending on your situation, your priorities, and your constraints, your choices may vary.

Some choices are easy and others have pros and cons. There is not always a right and a wrong choice.

STEP 1:

Think of an election for a specific office. In cases where you'll need both single and multi-winner elections we recommend using the chart to choose your singlewinner method first, and then selecting a multi-winner or proportional method with a matching ballot next.

STEP 2:

Use the flow chart to find your voting method.

STEP 3:

Learn what is at stake when you choose a voting method. With great great power comes responsibility.

How To Choose a Voting Method

A REAL WORLD RCV BALLOT

City Council

Rank up to 6 candidates.

Mark no more than 1 oval in each column.

Valarie Altman Orange Party

George Hovis Yellow Party

Althea Sharp Purple Party

Mary Tawa Lime Party

Joe Li Tan Party

Phil Wilkie Independent

First choice	Second choice	June Choice	Fourth choice	Choice	eth	Seventh choice 2th	Bighth choice 8th	Bth	Tenth choice 10th
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
0	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	0	\bigcirc	\bigcirc	\bigcirc
\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc

Who are Bullet Voters?

BULLEIVOIINC

In both Ranked Choice and STAR Voting some voters may "bullet vote" and only vote for their favorite. In both systems, if the voter did have a more nuanced opinion this is not effective and their vote is less likely to make a difference.

Voters who have a polarized opinion and only like one candidate. Voters who only have one candidate on their side.

Lazy or rushed voters who don't take the time to vote expressively. Voters who strategically decide not to show support for other candidates, even though this is not a good strategy in either STAR or RCV.

Election protocols specify that ballots are counted according to voter intent if possible. It's almost impossible to accidentally void or "spoil" a STAR ballot when proper protocols are in place. Equal rankings, the leading cause of spoiled ballots in RCV, are allowed in STAR Voting.

SCORE - THEN - AUTOMATIC - RUNOFF									
Worst									
Score Candidates:	0	1	2	3	4	5			
Abby	0	1	2	3	4	5			
Ben	0	1	2	3	X				
Carmen	0	1	2		4	5			

The voter above crossed out the wrong rating and wrote in a new one.* This ballot will be counted as 5 stars for Ben. This is not a spoiled ballot.

*Recommended election protocols specify to count the highest rating given for each candidate.

VOTER ERROR - STAR Voting

SCORE - THEN - AUTOMATIC - RUNOFF									
	Wors	st				Best			
Score Candidates:	0	1	2	3	4	5			
Abby	0	1	2	3	4	5			
Ben	0								
Carmen	0				4	5			

The voter above filled in too many bubbles as if they were doing a 5 star rating.* This ballot will be counted as 5 stars for Ben and 3 for Carmen. This is not a spoiled ballot.

SCORE - THEN - AUTOMATIC - RUNOFF									
Worst									
0	1	2	3	4	5				
0	1	2	3	4	5				
0		2	3	4					
0	1	2		4	5				
	TA RE - TH Wors 0	TAR RE - THEN - A Worst 0 10 10 10 1	TARVO RE - THEN - AUTOMA Worst 0 1 20 1 20 1 2	TARVOTI RE - THEN - AUTOMATIC - P Worst 0 1 2 30 1 2 30 1 2 3	TAR VOTING RE - THEN - AUTOMATIC - RUNOF Worst 0 1 2 3 4 0 1 2 3 4 0 1 2 3 4 0 1 2 3 4 0 1 2 3 4 0 1 2 3 4				

The voter above filled in both the 1 star and 5 star bubbles for Ben.* This ballot should be counted as 5 stars for Ben and 3 for Carmen. This should not be a spoiled ballot.

SPOILED BALLOTS - Ranked Choice

ERROR 1

This is a spoiled ballot.

This is a spoiled ballot.

Source: David Kimball. University of Missouri, St. Louis. Conference on Electoral System Reform. Stanford University. March 14-15, 2014. Voter Participation with RCV in the USA

In RCV, voters can not give candidates equal rankings and can not give multiple rankings to a single candidate. These rules lead to a high rate of "spoiled" or voided ballots.

Spoiled Ballot Rates by Ward Before and After RCV Adoption Minneapolis, Minnesota

ROVEXHAUSTED BALLOTS

	1st
Burgers	0
Curry	0
Salad	0
Tacos	0
Sushi	
Sushi	

 By the time Sushi was eliminated this voter's other choices were gone already. This is an exhausted ballot.

If all rankings had been counted, this election would have shown that

curry was actually preferred over burgers.

This voter should have strategically ranked curry first, but they were told

- that if their favorite was eliminated their next choice would be counted.

Ranked Choice Voting aka Instant Runoff Voting

Rank candidates in order of preference. You can't give the same ranking twice.

Rank Candidates:	1st	2nd	3rd	4th	Ę
Abby	1	2	3	4	(
Ben	1	2	3	4	
Carmen	1	2		4	(
DeAndre	1		3	4	(
Eric	1	2	3		(
Francisco	1	2	3	4	(
Graham		2	3	4	(
Hector	1	2	3	4	(
Irma	1	2	3	4	(

WASTED VOTES - Ballot Limitations

- RCV ballots only allow voters to rank a limited number of candidates.
- Limiting the number of ranks in RCV helps prevent spoiled ballots, but increases the number of exhausted ballots in races with large fields of candidates.
- With STAR, voters can score as many or as few candidates as they want because equal scores are allowed.

NO-PREFERENCE VOTES IN THE STAR RUNOFF

- are allowed.
- prevent spoiled ballots, and it's also key for eliminating vote-splitting between similar larger fields of candidates.

With STAR, voters can score as many or as few candidates as they want because equal scores

Allowing voters to give equal scores in STAR helps candidates and maintaining election accuracy in

Ballots counted as no-preference in the runoff **are** counted in both the scoring round and the runoff, and they **do make a difference** to help advance these voter's candidates who were more preferred.

Wasted Votes in the 2009 Burlington RCV Mayoral Election

Wright

Wright

Kiss Wins

Analysis of full candidate rankings showed that Montroll was actually preferred over all others.

Smith

Wright

Wright lost, but his voters never had their 2nd choices counted.

Exhausted

DETAIL OF EXHAUSTED BALLOTS

These ballots were not counted in the deciding round, despite being numerous enough to have flipped the election.

Montroll was also the majority preferred candidate. If all ballot data had been counted he would have won.

Ranked Choice Voting and the Spoiler Effect in the 2009 Burlington Mayoral Election

Montroll was preferred over both his opponents, but because he had less first choice votes than either, he was eliminated first. Voter's rankings which showed the full size of his base were never counted.

Peer Review and Academic Articles on RCV

Ranked Choice was invented 150 years ago and there is a wealth of data on where it delivers and where it falls short.

RCV does well in races where only two candidates are competitive, and successfully eliminates "The Nader Effect" if a 3rd party candidate is truly non-viable.

But, in elections with multiple viable candidates Ranked Choice Voting breaks down, producing non-representative and counterintuitive results. For this reason RCV has not broken two party domination in the countries where it's been used the longest. RCV is not suitable for primary elections or general elections with multiple viable parties or candidates.

https://www.jstor.org/stable/2110786?seq=1

FIGURE 4.b

Social Utility Efficiency under Spatial Model Assumptions (201 voters, two dimensions, correlation = .5, relative dispersion = .5) Merrill, Samuel (1984). "A Comparison of Efficiency of Multicandidate Electoral Systems".

THE MAINE HERITAGE POLICY CENTER

A FALSE MAJORITY: The Failed Experiment of Ranked-Choice Voting

"Too often, proponents of ballot initiatives advance lofty claims to win support at the ballot box."

"In examining 96 ranked-choice voting races from across the country where additional rounds of tabulation were necessary to declare a winner, The Maine Heritage Policy Center concludes that the eventual winner failed to receive a true majority 61% of the time."

"the claim that ranked-choice voting always provides a majority winner ... is false and deserves further scrutiny from voters."

"While candidates sometimes do receive a majority of the total votes cast, a winner is often declared only after a large number of exhausted ballots have been removed from the final denominator."

Figure 5: Percentage of Competitive RCV Elections That Did Not Result In A Majority Winner

80%	
60%	
40%	3
20%	
0%	Winner Red

ceived More Than **50% of Total Votes Cast**

Source: The Maine Herritage Policy Center www.scribd.com/document/421886759/RCV-Final-Booklet#fullscreen&from_embed

Winner Received Less Tha **50% of Total Votes Cast**

	1	

JOURNAL ARTICLE

Frequency of monotonicity failure under Instant Runoff Voting: estimates based on a spatial model of elections

Joseph T. Ornstein and Robert Z. Norman

Public Choice <u>Vol. 161, No. 1/2 (October 2014)</u>, pp. 1-9 (9 pages) Published By: Springer

https://www.jstor.org/stable/24507512

"[IRV] can cause spoilers in up to 1 in 5 elections or worse when there are more candidates according to expert analysis."

https://www.jstor.or/gstable/24507512?seq=1

Abstract

It has long been recognized that Instant Runoff Voting (IRV) suffers from a defect known as nonmonotonicity, wherein increasing support for a candidate among a subset of voters may adversely affect that candidate's election outcome. The expected frequency of this type of behavior, however, remains an open and important question, and limited access to detailed election data makes it difficult to resolve empirically. In this paper, we develop a spatial model of voting behavior to approach the question theoretically. We conclude that monotonicity failures in three-candidate IRV elections may be much more prevalent than widely presumed (results suggest a lower bound estimate of 15 % for competitive elections). In light of these results, those seeking to implement a fairer multi-candidate election system should be wary of adopting IRV.

Ballot (and voter) "exhaustion" under Instant Runoff Voting: An examination of four rankedchoice elections 🖈

Craig M. Burnett ^a [∧] [⊠], Vladimir Kogan ^b [⊠]

Highlights

- Instant runoff voting does not guarantee winners who receive an absolute majority.
- The rate of ballot exhaustion was high in each election, ranging 9.6%–27.1%.
- Voters' inability to rank multiple candidates contributes to ballot exhaustion.

https://www.sciencedirect.com/science/article/abs/pii/S0261379414001395

Abstract

Some proponents of municipal election reform advocate for the adoption of Instant Runoff Voting (IRV), a method that allows voters to rank multiple candidates according to their preferences. Although supporters claim that IRV is superior to the traditional primary-runoff election system, research on IRV is limited. We analyze data taken from images of more than 600,000 ballots cast by voters in four recent local elections. We document a problem known as ballot "exhaustion," which results in a substantial number of votes being discarded in each election. As a result of ballot exhaustion, the winner in all four of our cases receives less than a majority of the total votes cast, a finding that raises serious concerns about IRV and challenges a key argument made by the system's proponents.

* Note: This study looked specifically at elections in which a majority was not found in the first RCV round of tabulation.

THE CALIFORNIA Journal of Politics & Policy

Overvoting and the Equality of Voice under Instant-Runoff Voting in San Francisco

"The controversy surrounding the 2000 U.S. presidential race fueled a variety of efforts to improve the administration of elections. Activists, benefiting from that momentum ... found some purchase at the local level in San Francisco, California. Proposition A passed in a 2002 March primary and replaced a two-round runoff system with instant-runoff voting (IRV).1 ... As the largest and longest-running application of IRV in the States, this serves as both a vanguard on the reform front and a test case for interested parties.2

"One concern in the discussion of any electoral reform is how well the public will understand a new system and what that implies for the equality of political voice. This is our focus. ... Concerns about the fairness of IRV led at least four jurisdictions to repeal similar reforms shortly after enacting them: Burlington, VT (2006–2009), Cary, NC (2007–2009), Pierce County, WA (2006–2009), Aspen, CO (2009).

https://escholarship.org/content/qt8tm3s6hz/qt8tm3s6hz noSplash a5e40f23074e40a0b8a0be92279918ae.pdf

"Higher counts of overvotes were also found, at times, among San Francisco communities with more Latino residents (Neely and Cook 2008), something shown in a similar analysis of voters in Los Angeles (Sinclair and Alvarez 2004), and in areas with more foreignborn residents." "What has not changed is the nature of the discrepancies in who tends to overvote: precincts where consistently, African-Americans reside are more likely to collect overvoted, voided ballots. And this often occurs where more Latino, elderly, foreign-born, and less wealthy folks live. The additional years of data show no meaningful increase or decline in these tendencies but rather bolster the earlier study's findings. In all of the elections we examined, some voters were more at risk than others of making disqualifying errors."

THE MAINE HERITAGE POLICY CENTER **A FALSE MAJORITY:** The Failed Experiment of Ranked-Choice Voting **August 2019**

"African Americans, Latinos, voters with less education, and those whose first language is not English are more likely to be disenfranchised with a ranked-choice voting system."

When individuals leave columns blank on their ballots and the candidate(s) they vote for are

eliminated from contention, their ballot is not counted in the final tabulation... thereby giving those who fully complete their ballot more influence over the electoral process."

"only 50 percent of African Americans and 53 percent of Latinos ranked three candidates whereas 62 percent of whites ranked a candidate in all three columns."

https://mainepolicy.org/wp-content/uploads/RCV-Final-Booklet-.pdf

"When we examined the 96 ranked-choice voting races in our sample from across the nation, our analysis found an average of 10.92 percent of ballots cast are exhausted by the final round of tabulation."

Figure 1: Percentage of Exhausted Votes in Ranked-Choice Elections (Maine and Nationally)

Source: Maine Secretary of State, The Maine Heritage Policy Center

How does Proportional STAR Voting work?

Winner Selection

The highest scoring candidate in each round wins a seat.

Candidates:	Scores:	
Carmen 合合合合合	256,785	
Blake ☆☆☆☆☆	203,621	
Ella ☆☆☆☆☆	175,902	
Andre ☆☆☆☆☆	143,309	
David ☆☆☆☆☆	93,261	

Carmen wins the

first seat!

This election has three seats so the win quota is $\frac{1}{3}$.

The ¹/₃ of ballots which scored Carmen highest count toward her win quota and are set aside.

The remaining ballots are recounted to find the next winner.

The process is repeated until all seats are filled.

Voters and factions within the electorate are represented proportionally!

Win Quotas

Results

Winners each represent at least $\frac{1}{3}$ of the voters.

These three winners best represent the diversity in the electorate.

How proportional is a voting method?

Plurality

- electorate as a whole.
- strict proportional criteria like a quota rule.
- supported by as many voters as possible.

* Not to scale - proportionality varies depending on the election.

Proportionality for parties or distinct factions is measurable in a given election and is defined as the proportion of voters who were able to elect a winner who represents them.

IRV**, Approval Condorcet, STAR

Fully-Proportional: Passes a quota rule so that if a faction had the support of 1/5 of the voters, their top candidate would be able to win one out of the five available seats. Elected officials each represent their 'faction' or party specifically, rather than trying to represent the

Semi-Proportional: Multi-winner voting methods which are designed to produce higher proportionality but do not guarantee any

Popular Vote: Methods designed to elect candidates to each seat who best represent the electorate as a whole. Each winner is

** IRV and STV don't count many of the down ballot rankings given.

