What Is RCV Anyway?

Celeste Landry of the LWVCO Alternative Voting Methods Task Force --based on a collaborative LWV Boulder County June 2023 newsletter article

The term *Ranked Choice Voting* (RCV) is so bandied about these days that it tends to take up all the oxygen in any discussion on better voting methods. The RCV label was created in 2002 by the city of San Francisco. People who want to promote evolution beyond our flawed Plurality Voting are often excited to jump on the RCV bandwagon.

However, most people, including many RCV advocates, are unaware that RCV is actually an umbrella term, and RCV in fact exists in multiple forms. Many people refer to any alternative voting method as RCV—even voting methods, such as Approval Voting and STAR Voting, that don't rank candidates! This article only discusses voting methods that do rank candidates.

Why should we learn about different voting methods?

If you are in the market for a new house or car, you don't usually buy the first house you visit or the first car you test drive; rather, you shop around. Similarly, LWVCO would like for activists to consider different voting methods before advocating for a particular method in a particular situation.

Plurality Voting is the simplest and most familiar of voting methods. Also known as "First-Past-The-Post" voting, it works well if a ballot lists only two candidates for a given position.

If our goal is better representative democracy, however, we should strive to adopt voting methods that allow voters to "express their preferences more effectively" [LWVCO Voting Methods position], that encourage more candidates to run, and that reduce the so-called spoiler effect, by which a less-popular candidate wins when the spoiler candidate draws sufficient votes away from a popular but similar candidate.

How are ranked-voting methods similar and different?

A voting method has at least two components:

- 1. Ballot format, with directions to voters for casting a valid ballot
- 2. Tabulation method, of interest to election administrators, candidates, and voters

<u>In a December 2022 Fair Vote Canada video</u> Professor Dennis Pilon named a third component: district magnitude, aka the number of seats to be filled in a ballot contest.

We take this component into account by distinguishing between single-winner and multiwinner contests.

Ballot formats for a variety of ranked-voting methods contain the same basic directions: "Rank candidates in order of preference, giving different rankings to different candidates." In practice, the directions amount to "Fill in at most one bubble per column and one bubble per row." Voters should always fill in at least a first choice. Below is the ranked ballot that was used in the August 2022 Alaska special election.

United States Representative							
	1st Choice	2nd Choice	3rd Choice	4th Choice			
Begich, Nick (Registered Republican)	0	O 2	O 3	0			
Palin, Sarah (Registered Republican)	0	O 2	O 3	0			
Peltola, Mary S. (Registered Democrat)	0	O 2	O 3	0			
Write-in:	0	O 2	○ ³	0			

The tabulation method is what differentiates the various ranked-voting methods.

First, consider what is unique to RCV tabulation methods, i.e., what defines RCV: All forms of RCV allow for rounds of counting in which the candidate with the fewest votes is eliminated and votes for that candidate are transferred to the next-highest-ranked candidate on the ballot.

Within this RCV constraint, tabulation methods can differ widely. The table below lists 7 different RCV tabulation methods. (Note that yet another method called RCV in <u>HB1540</u> would have allowed voters to give the same ranking, such as the #1 ranking, to multiple candidates, but it did not pass in the 2018 New Hampshire legislative session.)

Unfortunately, the media and activists often conflate single-winner and multi-winner versions of RCV—claiming, for instance, that RCV leads to proportional representation when that statement is true for only some of the multi-winner forms of RCV.

Forms of RCV					
Key: SW= single winner, MW = multiple winners					
Voting Method	SW or	How It Works	Where It's Used Some jurisdictions currently or		
	MW?		planning to use this form of RCV		
Instant-Runoff Voting	SW	If no candidate gets a majority of	San Francisco, Santa Fe, Maine,		
(IRV) - What most		votes in the first round of counting,	New York City and more than a		
people think of as "RCV"		then the lowest vote-getters are	dozen other places;		
video [Correction		eliminated round-by-round and their	Boulder in 2023 for its first		
note: Only a 1st-round		votes transferred to the next available	mayoral election		
winner is guaranteed		ranking on the ballot until 1 candidate			
a majority of all		has more votes than the remaining			
votes]		candidates combined.			
Top-4 Plurality primary	(MW	All candidates run against each other	Alaska since August 2022		
with an IRV general	then)	in a Plurality "choose-one" primary			
election, similar to	SW	election. The top 4 candidates			
Final-Five Voting		proceed to an IRV general election.			
<u>video</u>		Unlike regular IRV, this version does			
		not eliminate a second election.			
Contingent Vote	SW	All but the top 2 vote-getters are	NC Court of Appeals 2010;		
(3 or more rankings) or		eliminated in the first round of	London, UK;		
Supplementary Vote		counting. Votes for eliminated	Overseas voters in AR, AL, GA, LA,		
(only 2 rankings)		candidates are transferred to the	MS and SC mark a regular primary		
<u>video</u>		highest ranked of the 2 remaining	ballot and a ranked ballot that		
		candidates on each ballot.	counts if there is a top-2 runoff		
Single Transferable	MW	Candidates who receive the threshold	Cambridge, MA since 1941;		
Vote (STV),		of votes are elected. Any surplus	Albany, CA as of 2022;		
aka Proportional RCV		votes are transferred to the next	some members of two boards in		
(pRCV)		highest available ranking. Lowest vote-getters are eliminated round-by-	Minneapolis; Portland, OR starting in 2026		
video [a "gold standard"		round and their votes transferred to	(Boulder 1917-1947);		
proportional voting		the next available ranking on each	Australia Senate;		
method to elect people]		ballot until all seats are filled.	Ireland lower house		
Bottoms-Up 15%	MW	Conduct IRV tabulation rounds but	2020 Alaska, Hawaii, Kansas and		
Threshold RCV	IVIVV	don't stop until all remaining	Wyoming Democratic presidential		
video		candidates have at least 15% support,	primaries to allocate delegates to		
[determine proportional		whereupon candidates' delegates are	the national nominating		
allocations		proportionally allocated.	convention		
Bottoms-Up Top-2 RCV	MW	Conduct IRV tabulation rounds until 2	Seattle starting in 2027		
primary with a	(then	candidates remain. Voters vote again	Prop 1B ballot question		
"choose-one" general	SW)	in a runoff election to decide which of			
election		the 2 primary winners gets the seat.			
Preferential Block	MW	The first seat is filled using an IRV	Utah municipalities may opt into		
Voting (PBV),		tabulation. Then <u>all</u> ballots are	an IRV and PBV pilot project		
aka Sequential RCV		tabulated again using IRV but ignoring	through the 2025 elections.		
<u>video</u>		the winning candidate. The process is	In 2022 Portland, ME voters		
[NOT proportional; a		repeated until all seats are filled. (In	approved changing from PBV to		
plurality of voters may		the video some voters help elect 3	proportional STV.		
elect all the winners]		candidates, while voters who ranked			
		Yellow #1 don't help elect any.)			

Now we'll consider some non-RCV ranked-voting methods. The first four methods listed have all mistakenly been called RCV in Colorado in the past few years!

Forms of Non-RCV Ranked Voting (includes only single-winner voting methods)				
Voting Method	How It Works	Where It's Used		
Insurance Ranking [The ballot's vote is solely dependent on candidate eligibility, not on the tabulation process.]	If the ballot's 1st-choice candidate dies, withdraws or is disqualified after the voter has returned their ballot but before Election Day, the vote counts for the next ranking.	2023 Colorado Senate Bill 301 would have allowed military and overseas voters to use this for the 2024 presidential primary election (but the bill died in committee)		
Borda Count video	Assigns the largest point value to a voter's 1 st choice, 2 nd largest to the voter's 2 nd choice, and so on. The candidate with the largest point total wins.	In some overseas political elections and in various organizations and institutions – see Survey Monkey's Ranking ballot		
Bucklin Voting, aka Grand Junction System video	If no candidate gets a majority of 1 st -choice rankings, then 2 nd -choice rankings are added to the total. If still no candidate gets a majority, then 3 rd -choice rankings are added in.	In more than 60 US cities in the early 20th century, including Denver, Grand Junction, Colorado Springs, San Francisco, Cleveland, Newark, and St Petersburg		
Count the Rankings [arguably more a presentation of raw data than a tabulation method]	Voters must rank all candidates. Count and report the number of 1 st choices, the number of 2 nd choices, and so on for each candidate.	In organizations using Microsoft 365's Ranking form		
Condorcet Method video [actually, a family of voting methods, including Ranked Robin, Minimax, and Schulze}	The candidate that defeats all the opponents in pairwise matchups is the Condorcet winner. If no Condorcet winner exists, each method has a rule to determine a winner.	Mostly by organizations and political parties overseas, as well as high-tech organizations, such as IEEE. A few overseas municipalities use Schulze.		
Coombs' Rule video [The video contrasts IRV and Coombs' Rule.]	If no candidate gets a majority on the 1 st round, then the candidate with the most last-place votes is eliminated. The process is repeated until one candidate wins.	A variant is used on the "Survivor" reality TV program		

Now what?

So, how do you now approach conversations about voting methods? To cover all bases, consider following the example of the Colorado Secretary of State and Colorado statutes—don't use the term *RCV*, but rather the super-umbrella term *ranked voting*. And, if someone mentions RCV or ranked voting, here's a good first question to ensure that everyone is on the same page: "Which form of RCV or ranked voting are you talking about?"

Who knew there were so many forms of ranked voting? Well, now YOU know.