

Wählt diesen Workshop!

Ein interaktiver Streifzug durch verschiedene Wahlverfahren

piko & blinry - 39C3

Einführung

Stimmzettel

Plurality vote

Vote for one option. Joe Smith John Citizen Jane Doe Fred Rubble Mary Hill

Approval ballot



Preferential ballot



Rated ballot

Rate each between -10 and 10					
7	Joe Smith				
10	John Citizen				
-3	Jane Doe				
0	Fred Rubble				
10	Mary Hill				

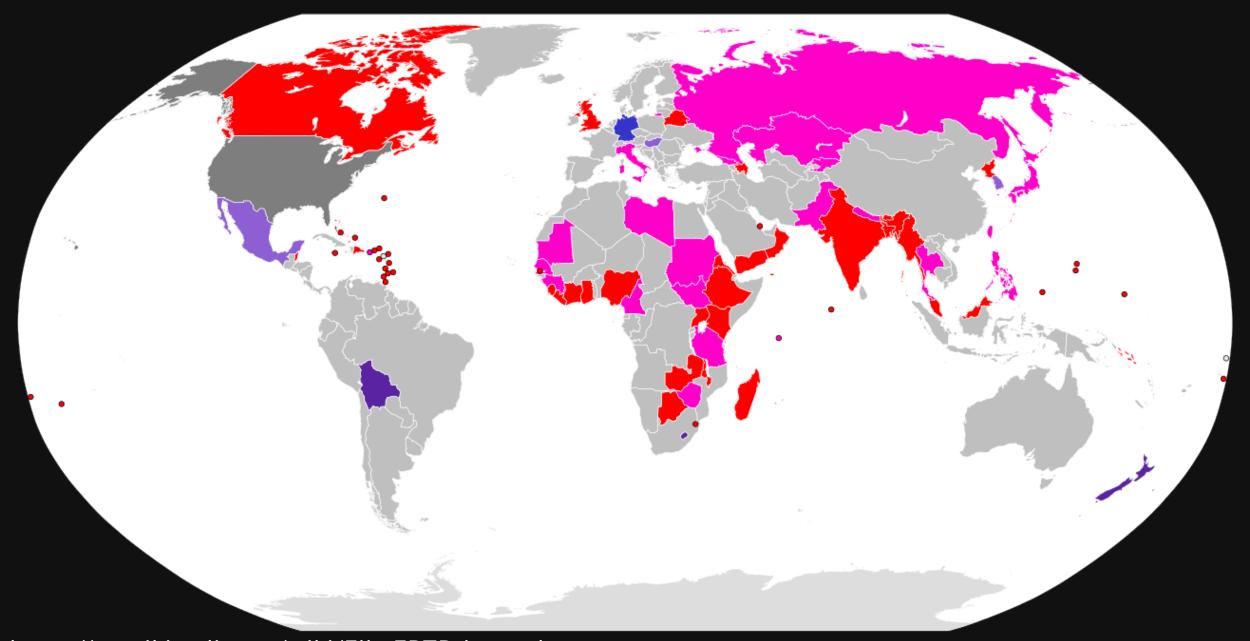
Teil 1

Verfahren mit einem Gewinny

Relative Mehrheitswahl

(First-preference plurality voting, Choose one, First-past-the-post)

Vote for one option. Joe Smith John Citizen Jane Doe Fred Rubble Mary Hill



https://en.wikipedia.org/wiki/File:FPTP_lower_house.svg

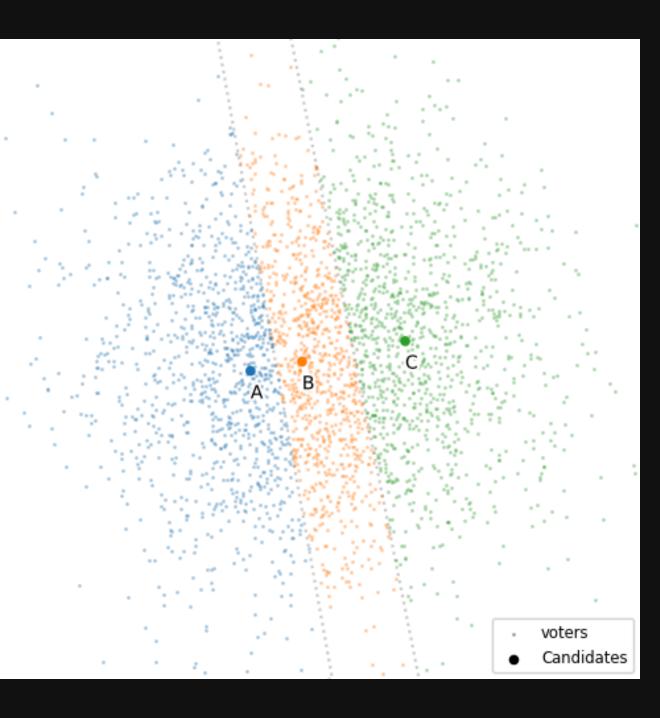
https://bettervoting.com/r4xf8y

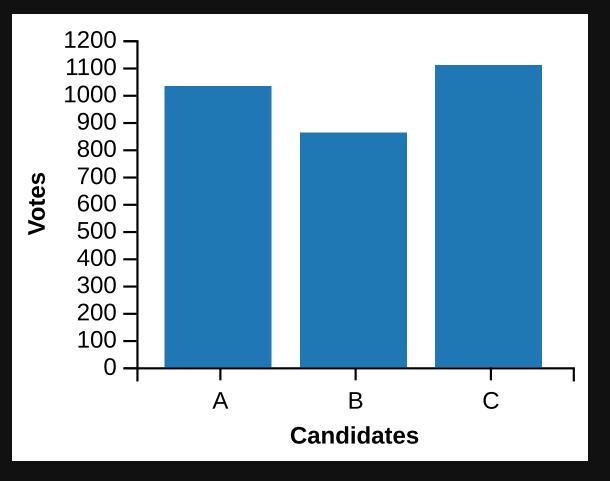


Schokoladenproblem: "Vote splitting", "Cloning paradox"

Table of nathological behavio

\$	Pathology +	Explanation/details \$
X	Frustrated majority	The frustrated majority paradox occurs when a majority of voters prefer some candidate <i>Brighton</i> to every other candidate, but <i>Brighton</i> still loses the election. First-past-the-post is vulnerable to this paradox because of vote-splitting. ^[5]
X	Condorcet loser paradox	The Condorcet loser paradox happens when a majority of voters prefer every other candidate to <i>Brighton</i> , but <i>Brighton</i> still wins. First-past-the-post is vulnerable to this paradox because of vote-splitting. ^[5]
X	Center	The center squeeze describes a type of violation of Independence of irrelevant alternatives primarily affecting voting rules in the Plurality-rule family where the Condorcet winner is eliminated in an early round or otherwise due to a lack of first-preference support.
X	Spoiler effect	A spoiler effect is when the results of an election between A and B is affected by voters' opinions on an unrelated candidate C. First-past-the-post does not meet this criterion, which makes it vulnerable to spoilers.
X	Cloning paradox	The cloning paradox is a particular kind of spoiler effect that involves several perfect copies, or "clones", of a candidate. Candidate-cloning causes vote-splitting in FPP.
X	Best-is-worst paradox	The best-is-worst paradox occurs when an electoral system declares the same candidate to be in first and last place, depending on whether voters rank candidates from best-to-worst or worst-to-best. FPP demonstrates this pathology, because a candidate can be both the FPP winner and also the anti-plurality loser.
X	Lesser-evil voting	Lesser-evil voting occurs when voters are forced to support a "lesser of two evils" by rating them higher than their actual favorite candidate. FPP is vulnerable to this pathology.





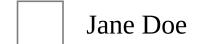
Zustimmungswahl

(approval)

Vote for any number of options.











https://bettervoting.com/cr7frx



Bewertungswahl

(Score voting, Range voting)

Rate each between -10 and 10

- 7 Joe Smith
- 10 John Citizen
- -3 Jane Doe
- **O** Fred Rubble
- 10 Mary Hill



Internet Engineering Task Force (IETF)

Request for Comments: 7282

Category: Informational

ISSN: 2070-1721

P. Resnick Qualcomm Technologies, Inc. June 2014

On Consensus and Humming in the IETF

Abstract

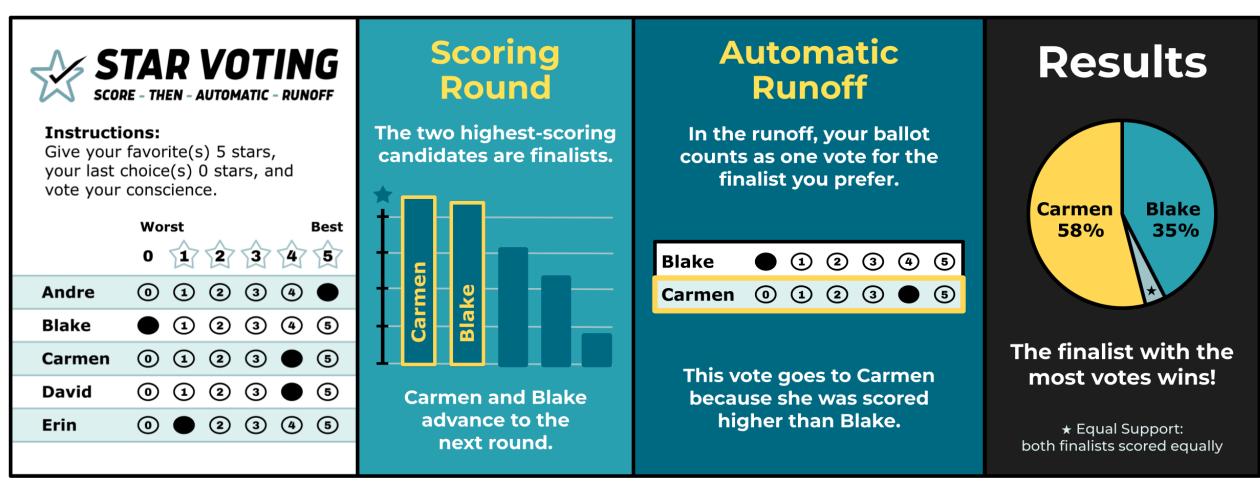
The IETF has had a long tradition of doing its technical work through a consensus process, taking into account the different views among IETF participants and coming to (at least rough) consensus on technical matters. In particular, the IETF is supposed not to be run by a "majority rule" philosophy. This is why we engage in rituals like "humming" instead of voting. However, more and more of our actions are now indistinguishable from voting, and quite often we are letting the majority win the day without consideration of minority concerns. This document explains some features of rough consensus, what is not rough consensus, how we have gotten away from it, how we might think about it differently, and the things we can do in order to really achieve rough consensus.

Note: This document is quite consciously being put forward as Informational. It does not propose to change any IETF processes and is therefore not a BCP. It is simply a collection of principles, hopefully around which the IETF can come to (at least rough) consensus.

Ausprobieren: Lieblingsjahreszeit

Variante: STAR voting

How does STAR Voting work?



Add up the stars, then add up the votes!

https://bettervoting.com/r6d8kw



Präferenzwahl

(ranked choice voting)

Rank any number of options in your order of preference.

Joe Smith

1 John Citizen

3 Jane Doe

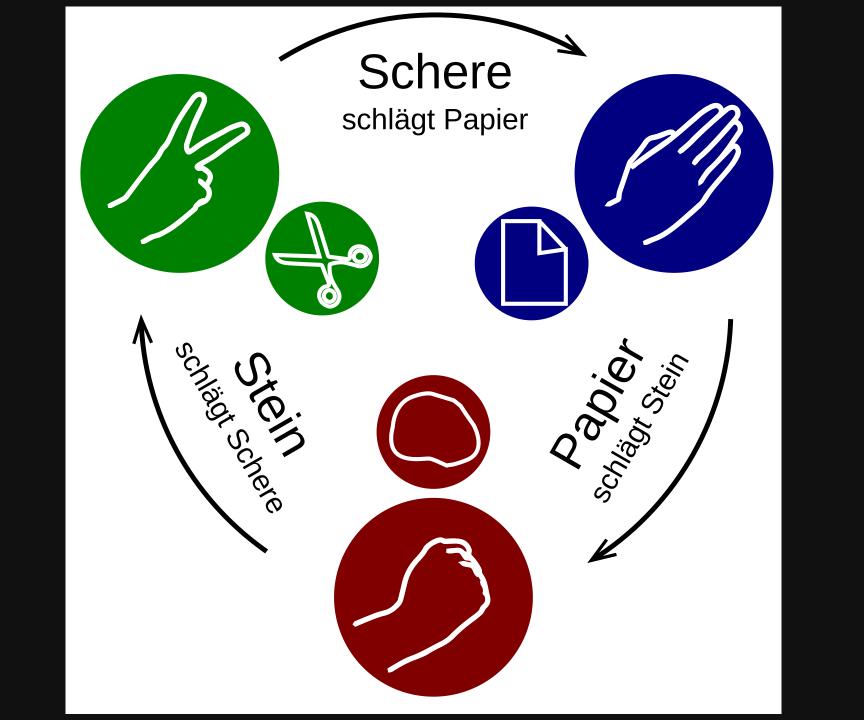
Fred Rubble

2 Mary Hill

Untergruppe: Condorcet-Methoden

https://bettervoting.com/3v3whb





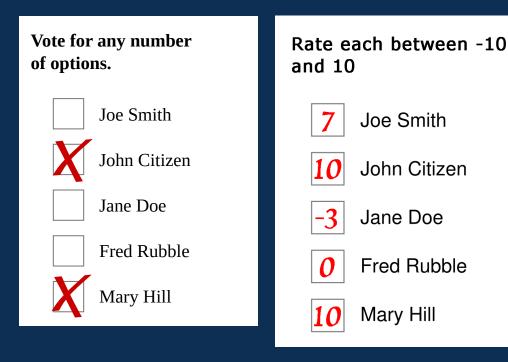
Teil 2

Verfahren mit mehreren Gewinnys

Zustimmungs-/Bewe rtungswahl mit mehreren Gewinnys

Beispiel: Wahl von Vorständen in Hackspaces

⇒ Keine proportionale Repräsentation



Personalisiertes Verhältniswahlrecht

(Mixed-member proportional voting, "the German system")

Kombiniert Mehrheitswahl (in Wahlkreisen) mit proportionaler Verhältniswahl

Übertragbare Einzelstimmgebung

(single transferable vote, proportional ranked-choice voting)

Rank any number of options in your order of preference.

Joe Smith

1 John Citizen

3 Jane Doe

Fred Rubble

2 Mary Hill

Rate each between -10 and 10

7 Joe Smith

10 John Citizen

-3 Jane Doe

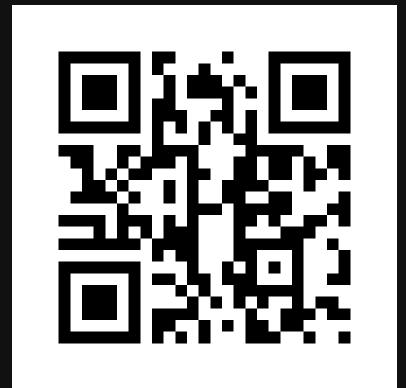
Fred Rubble

Mary Hill

STAR voting für mehrere Gewinnys

Kuchen!

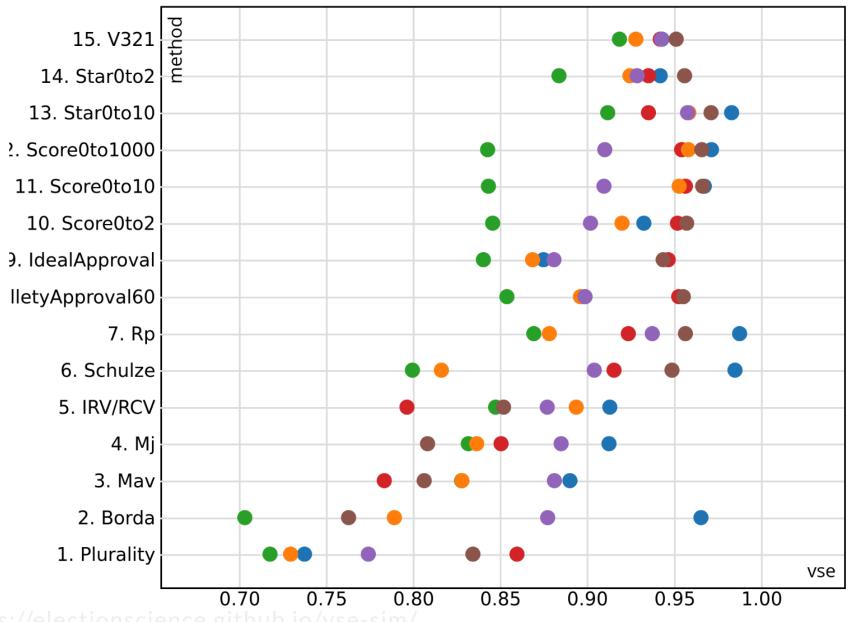
https://bettervoting.com/3r4yq6



Wie "gut" sind nun die Verfahren?

Comparison of single-winner voting systems [hide]

Comparison of single-winner voting systems [hide]													
Criterion Method	Majority winner	Majority loser	Mutual majority	Condorcet winner [Tn 1]	Condorcet loser	Smith [Tn 1]	Smith- IIA [Tn 1]	IIA/ LIIA [Tn 1]	Clone- proof	Mono- tone	Consistency	Participation	S
First-past- the-post	Yes	No	No	No	No	No	No	No	No	Yes	Yes	Yes	
Anti- plurality	No	Yes	No	No	No	No	No	No	No	Yes	Yes	Yes	
Two round system	Yes	Yes	No	No	Yes	No	No	No	No	No	No	No	
Instant- runoff	Yes	Yes	Yes	No	Yes	No	No	No	Yes	No	No	No	
Coombs	Yes	Yes	Yes	No	Yes	No	No	No	No	No	No	No	
Nanson	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	
Baldwin	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	
Tideman alternative	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No	No	
Minimax	Yes	No	No	Yes ^[Tn 2]	No	No	No	No	No	Yes	No	No	
Copeland	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	No	No	
Black	Yes	Yes	No	Yes	Yes	No	No	No	No	Yes	No	No	



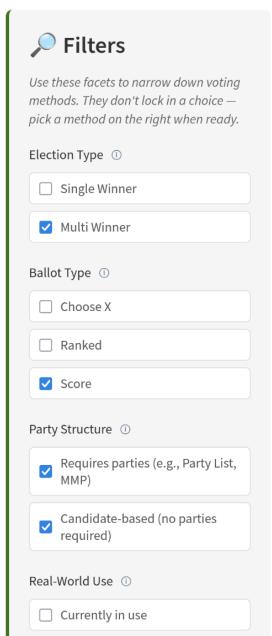


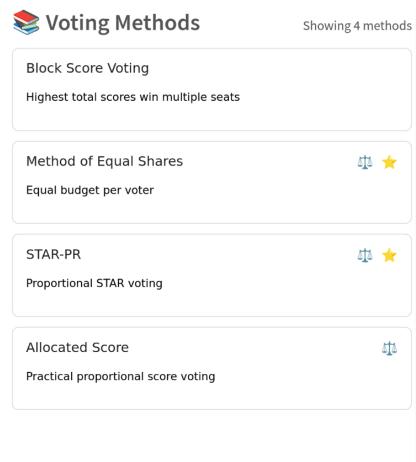
a.100% honest
b.50% 1-sided strateg
c.50% strategic
d.Smart 1-sided strat.
e.100% 1-sided strategic

<u> https://electionscience.github.io/vse-sim/</u>

<u>approval.vote</u> // Voting Method finder

Mix and match components to design your ideal voting system





3-2-1 Voting



Ballot Type: Give each candidate a numerical score (0 to 5). Score voting works best with many candidates and relatively few voters, where the expressivity helps prevent ties

Voting Method: Score 3-2-1, advance top 2, pick winner

Single-Winner Election: Electing 1 seat

Detailed Analysis

Overview: Voters score candidates as Good (3), OK (2), or Bad (1). The two highest-scoring candidates advance to a runoff based on who is rated higher by more voters. Simple to understand and

Danke!

- @piko@chaos.social ✓ <u>ithea.de</u>
- **@blinry@chaos.social** ✓ **blinry.org**