A primer on voting systems

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Why proportional representation?

It's the critical issue....



.... to the urgent ones we care about.

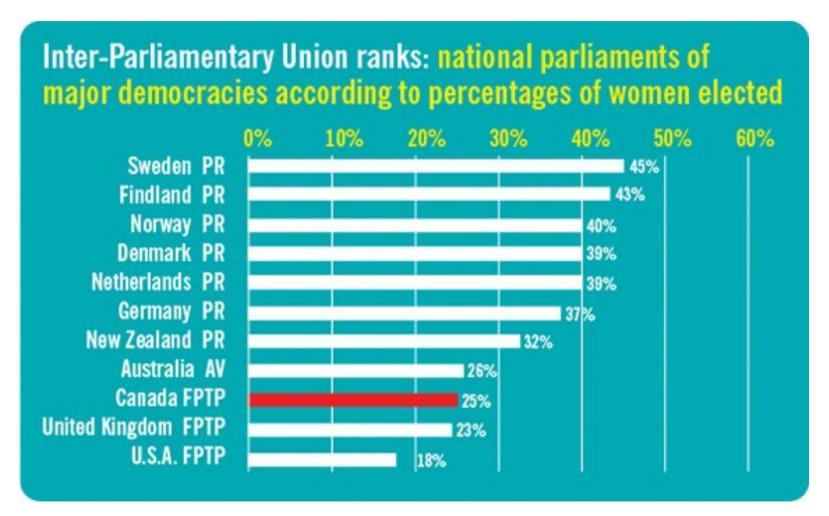
Fair Voting

- 1)Why FPTP doesn't serve voters
- 2)History of the mouvement
- 3) Voting system concepts
- 4)Different voting systems
- 5) Where to go from here?

FPTP doesn't serve voters

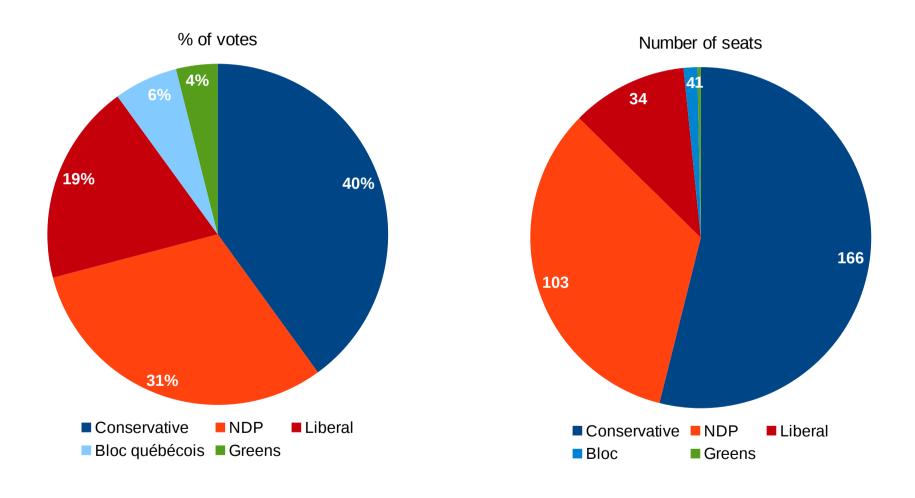
- Phony majorties
 - Ontario (since 1937)
 - Canada (since 1984)
 - Quebec (since 1985)
- Half the voters are unrepresented, while others are overrepresented
- How can institutions be accountable?

Proportion of women elected in legislatures of OECD* countries

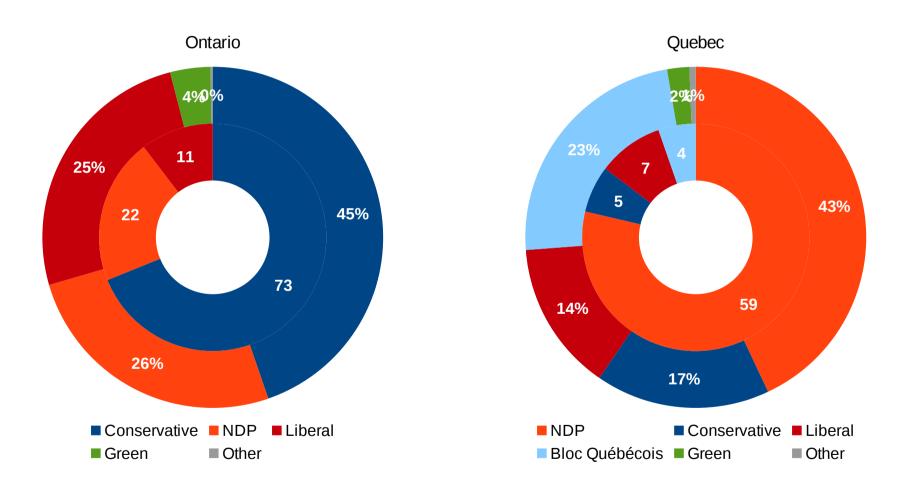


^{*}Organization for Economic Cooperation and Development

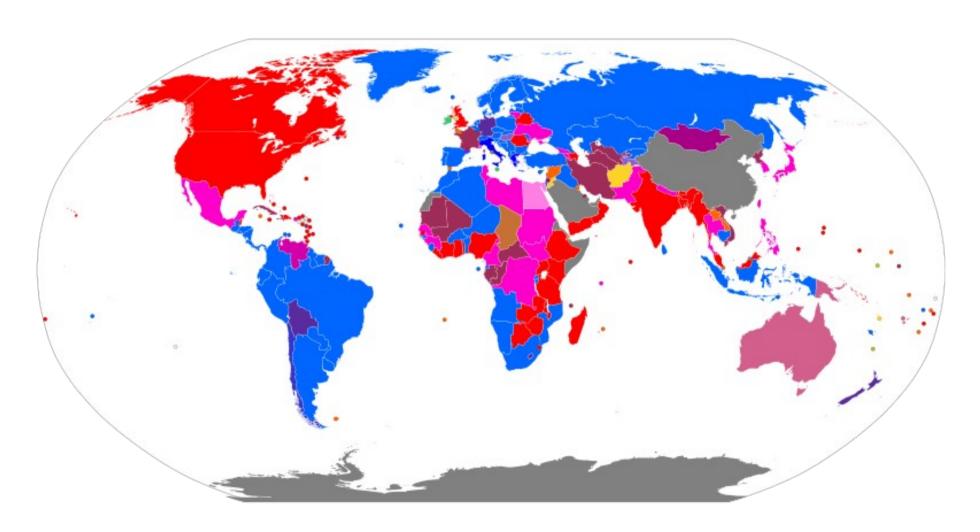
Distortion of representation



Distortion of representation



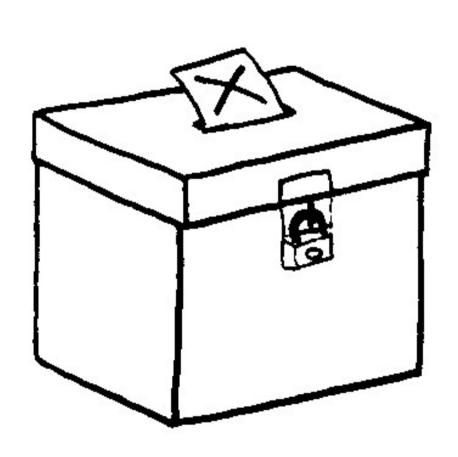
Who uses FPTP?



Legend: http://en.wikipedia.org/wiki/File:Electoral_systems_map.svg

~50%

Voting systems



• The ballot

Seats per electoral districts

 The algorithm (votes → seats)

Single member plurality (First past the post)

The ballot: One X per vote Seats per electoral district: 308 ridings of one seat The algorithm: The seat is given to the candidate with at least 1 more vote than everyone else.

What is an electoral district?

- A bounded geographical area who's voters are represented by one *or more* legislators
- Canada: 308 electoral districts represented by 308 MPs
- **Australian senate** : 6 staes, each represented by 12 elected senators
- **Norway legislature**: 19 counties, each represented by 4 to 17 legislators

History of voting reform in the world

- Denmark, Germany,
- Early days of Canada
- NZ

Recent history of voting reform in Canada

- 1984 : Electoral Representation Commission (Québec)
- 1997 : Federal Majority government with lowest support
- 2001 : Fair Vote Canada is founded
- 2002 : Quebec's Estates-General on the Reform of Democratic Institutions
- 2004 : Quebec government study (Charest)
- 2004 : Law Commission of Canada report on ER
- 2005 : NB Commission on Legislative Democracy
- 2005 : PEI Plebiscite on voting reform
- 2005 : BC Citizens Assembly recommends Single Transferable Vote
- 2006 : Quebec Citizens Committee Report
- 2007 : Ontario Citizens Assembly recommends Mixed Member proportional
- 2007 : Quebec's Chief Electoral Officer's Report
- 2009 : Second referendum on BC-STV

Voting systems considered in Canada

- Single Member Plurality (First past the post) (FPTP)
- Mixed member proportional (MMP)
- Single Transferable Vote (STV)
- Alternative Vote (Preferential Voting) (AV)

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- Alternative Vote Plus (AV+)
- P3

Mixed Member Proportional

OFFICIAL MARK

[Consecutive Number]

ELECTORATE VOTE

YOU HAVE 2 VOTES

Explanation
This vote decides the share of seats which each of the parties listed below will have in Parliament. Vote by putting a thick in the circle immediately after the party you choose.

PARTY VOTE

Explanation

This vote decides the candidate who will be elected Member of Parliament for the [Insert name] ELECTORATE. Vote by putting a tick in the circle immediately before the candidate you choose.

RAWIRI, Whare

REPUBLICAN PARTY

TE TAWHARAU

ROSS, Arthur

RUSCOE, Noel

SMITH, Eugene INDEPENDENT TULIP, Belinda

ADVANCE NZ

Vote for only one party Vote 100 Vote for LABOUR Vote for Date of LABOUR

Vote for only one candidate

BARKER, Mary ACT NEW ZEALAND ACT NEW ZEALAND DENIS, Alistair NATIONAL NATIONAL ELLIS, John ALLIANCE ALLIANCE THE GREENS. THE GREEN PART GREIG, Tony OF AOTEAROANEW ZEALAND THE GREEKS, THE DRIGHT PARTY OF ACTEARDANEW JEALAND ILLOTT, Anne NZ FIRST NZ FIRST MARTIN, Hamish ROC NEMETH, Elizabeth CHRISTIAN DEMOCRATS CHRISTIAN DEMOCRATS OSBERT, Sebastian UNITED NZ UNITED NZ CHRISTIAN HERITAGE PARTY OF PEOPLES, Wendy CHRISTIAN HERITAGE PARTY OF NEW ZEALAND NEW ZEALAND QUENTIN, Oliver McGILLICUDDY SERIOUS McGILLICUDDY SERIOUS

[Insert party logo (if registered) to the name of the candidate.]

(Insert party logo (if <

registerect

the name

to the

left of

of the

party.]

TE TAWHARAU

DEMOCRATS

ADVANCE NZ

CONSERVATIVE

SOCIAL DEMOCRATS

SUPERANNUITANTS PARTY

REPUBLICAN PARTY

Final Directions

- If you spoil this ballot paper, return it to the officer who issued it and apply for a new ballot paper.
 After voting, fold this ballot paper so that its contents cannot be seen and place it in the ballot box.
- 3. You must not take this ballot paper out of the polling booth.

Mixed Member Proportional: The ballot

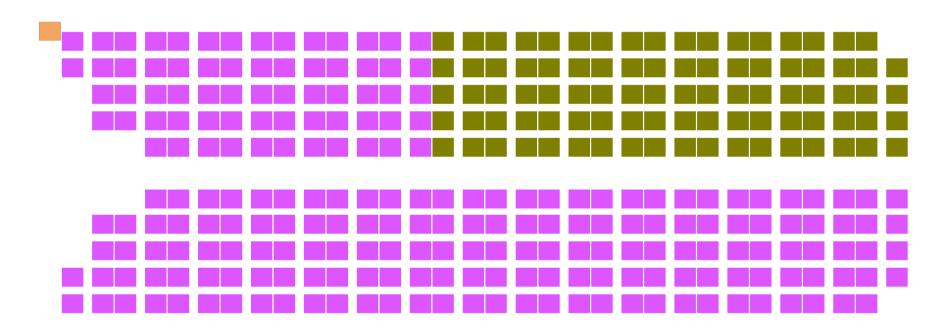
• Two votes:

- One for local candidate
- One for party

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Mixed Member Proportional The seats & riding

- One seat per geographic ridings;
- List seats for ridings that span the entirety or parts of the jurisdiction;



Mixed Member Proportional The algorithm

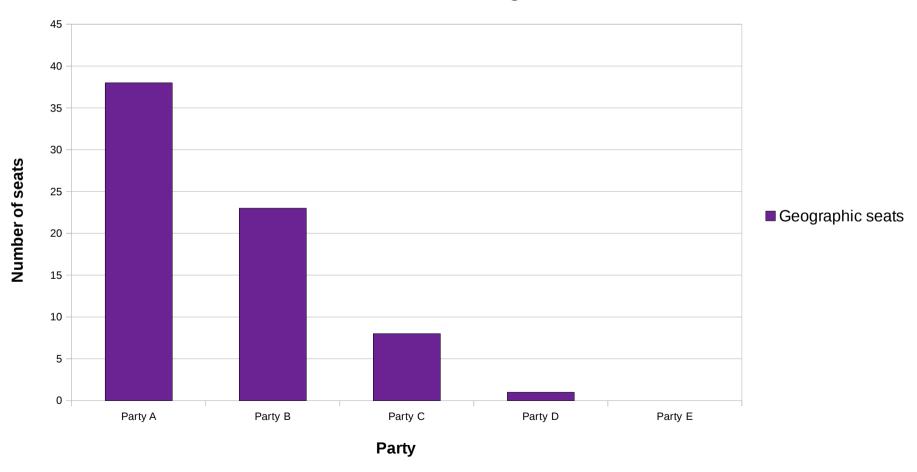
- Winner of geographic seats are determined first
- List seats compensate for lack of proportionality

MMP: The algorithm

Fictional legislature of <u>100</u> seats					
	Geographic seats	% of vote	List seats		
Party A	38	40%	2		
Party B	23	31%	8		
Party C	8	19%	11		
Party D	1	6%	5		
Party E	0	4%	4		
Total	70	100%	30		

MMP: The algorithm

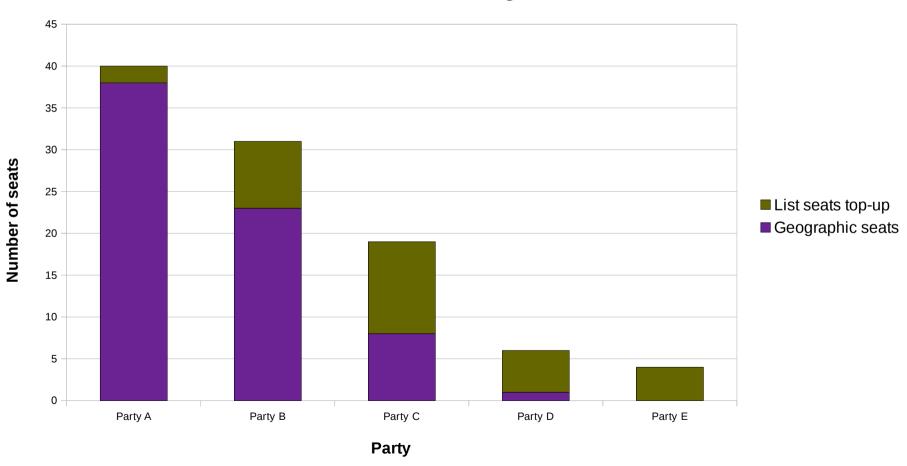
Fictional 100 seat legislature



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MMP: The algorithm

Fictional 100 seat legislature

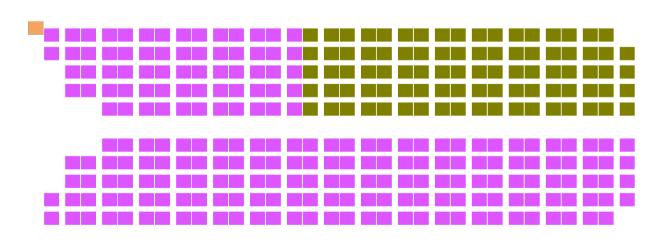


List seats

- Closed list (Ontario MMP 2007)
- Open lists

(Voting Counts: Electoral Reform for Canada, Law Commission of Canada, 2004, p. 106)

• **Best loosers** (Germany)



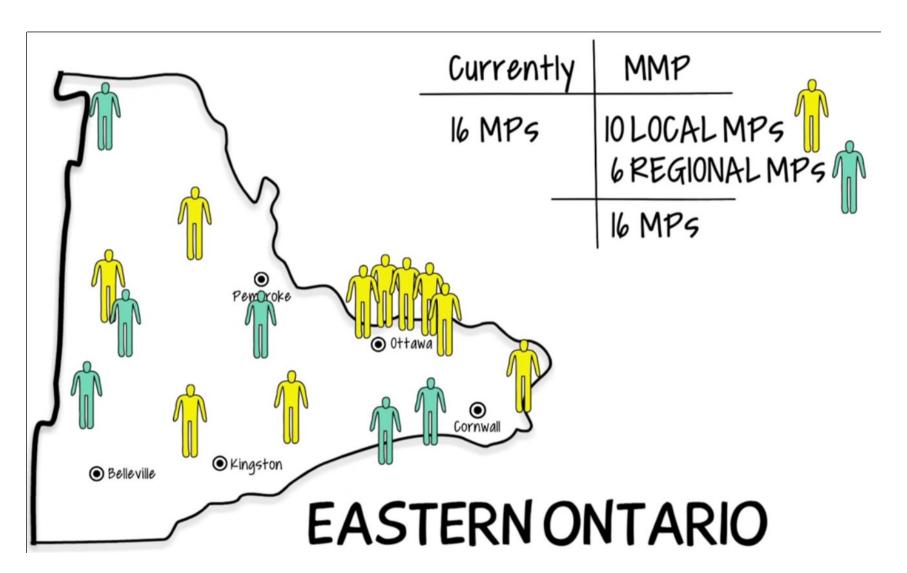
Law Commission 2004 MMP

Ballot

2015 FEDERAL ELECTION	N	Riding: OTTAW	A SOUTH Region	n: EASTERN ONTARIO	
You have two votes:					
1 Please mark an "X" beside	one candidate for LOCA	L MEMBER OF PARLIAME	NT		
Elie Salibi Conservative	David McGuinty Liberal	James McLaren NDP	Mick Kitor Green	Romeo Bellai Independent	
Please mark an "X" beside EITHER one party OR one candidate for REGIONAL MEMBER OF PARLIAMENT. A vote for a candidate counts as a vote for that candidate's party. This vote helps elect regional MPs, topping-up the numbers of MPs from your region so the total is proportional to the votes for each party. Conservative Liberal NDP Green					
John Baird		Paul Dewar	Jen Hunter		
Conservative	Mauni Bélanger Liberal	NDP	Green		
Scott Reid Conservative	David McGuinty Liberal	Marlene Rivier NDP	Jean-Luc Cooke Green		
Pierre Lemieux Conservative	Ted Hsu Liberal	Daniel Beals NDP	Mary Slade Green		
Pierre Poilievre Conservative	Anita Vandenbeld Liberal	Elaine MacDonald NDP	Eric Walton Green		
Cordon O'Conner Conservative	Julie Bourgeois Liberal	Trevor Haché NDP	Caroline Rioux Green		
Gord Brown Conservative	Karen McCrimmon Liberal	Erin Peters NDP	John Hogg Green		
Daryl Kramp Conservative	Peter Tinsley Liberal	Michael McMahon NDP	Sylvie Lemieux Green		
Royal Galipeau Conservative	David Bertschi Liberal	Bonnie Jean-Louis NDP	John Baranyi Green		
Cheryl Gallant Conservative	Marjory Loveys Liberal	James McLaren NOP	Mick Kitor Green		
Guy Lauzon Conservative	Ryan Keon	Martine Cénatus	Roseanne Van Schie		
Alicia Gordon Conservative	David Remington Liberal	Doug Smyth			
Elie Salibi Conservative	Bernadette Clement Liberal	Mary Rita Helland NOP			

Law Commission 2004 MMP

Eastern Ontario



Mixed Member Proportional

The ballot:	One vote for a partyOne vote for a candidate
Seats per electoral district:	•50%-70% are local electoral district•Remainder are list seats
The algorithm:	 Geographic seats first determined List seats compensate for lack of proportionality

Single Transferable Vote

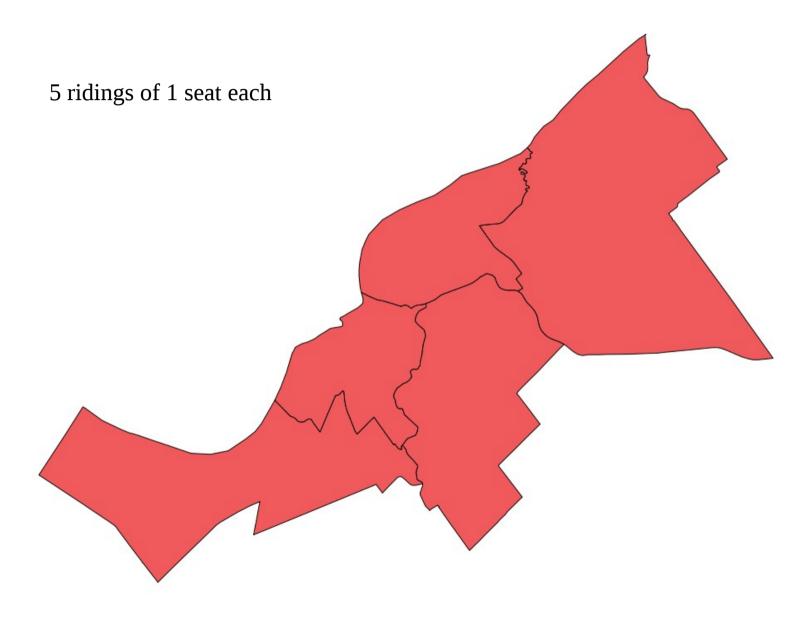
Single Transferable Vote: The ballot

Rank any number of options in your order of preference.

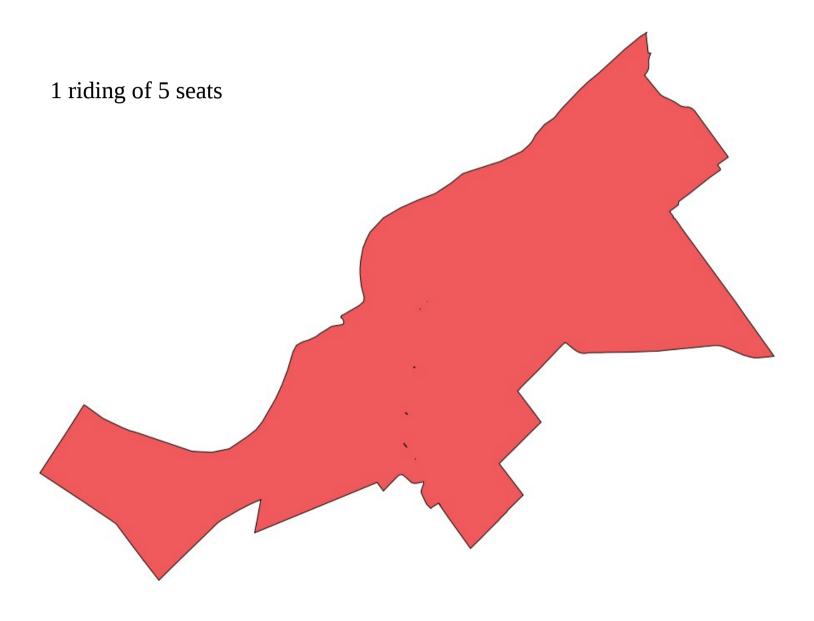
- Joe Smith
- **1** John Citizen
- **3** Jane Doe
- Fred Rubble
- 2 Mary Hill

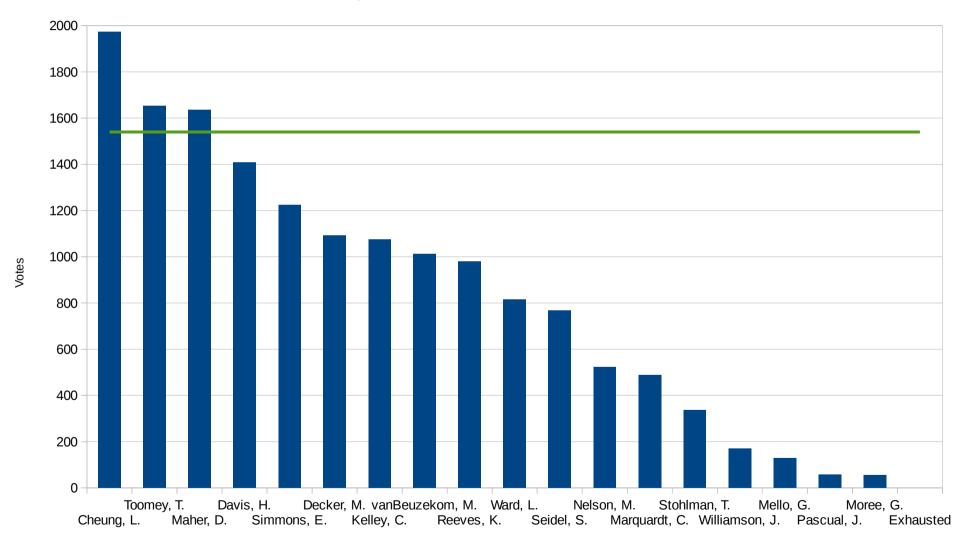
- Ranked vote
- No party list

Single Tranferable Vote: The district & seats



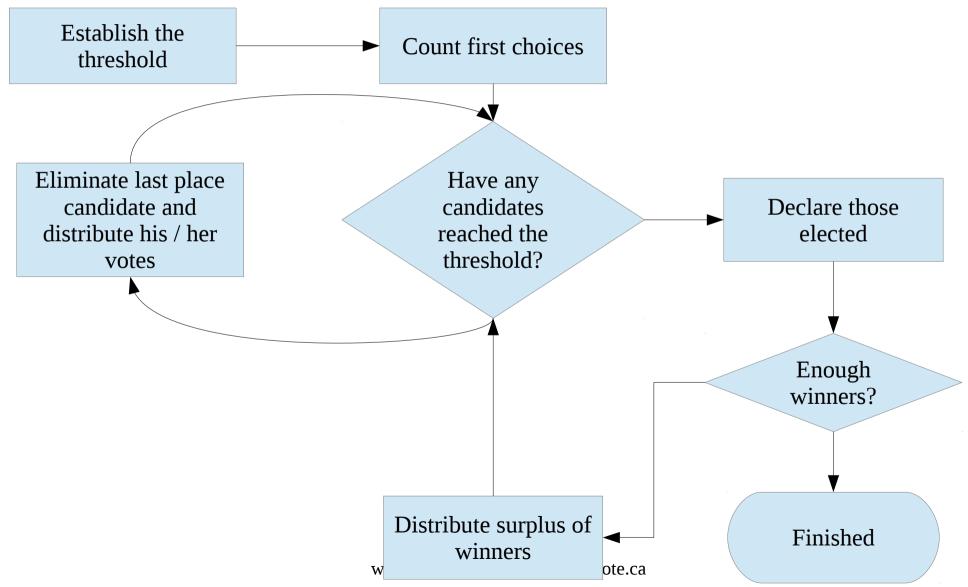
Single Tranferable Vote: The district & seats





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Single Transferable Vote The algorithm



Single Transferable Vote The algorithm

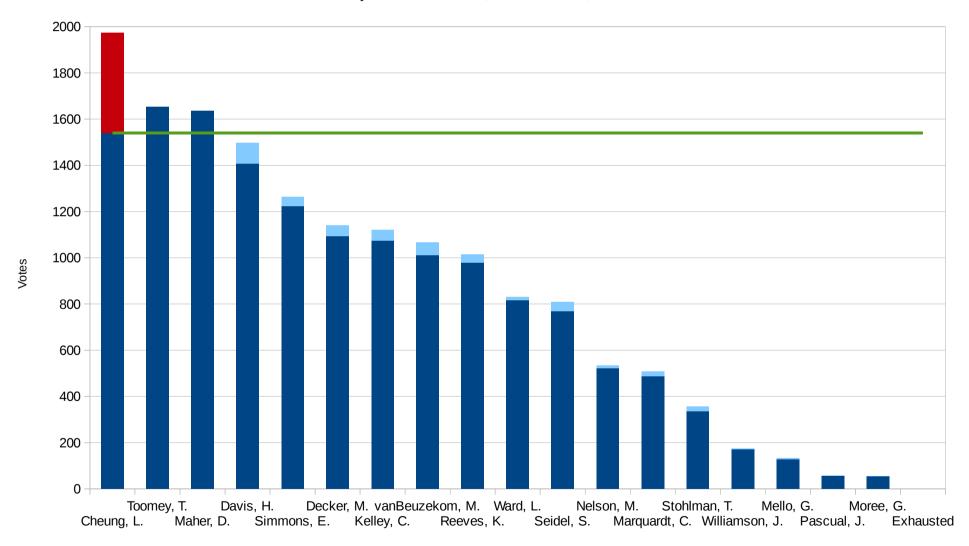
Formula:

threshold=
$$\left(\frac{\text{valid votes}}{\text{seats}+1}\right) + 1$$

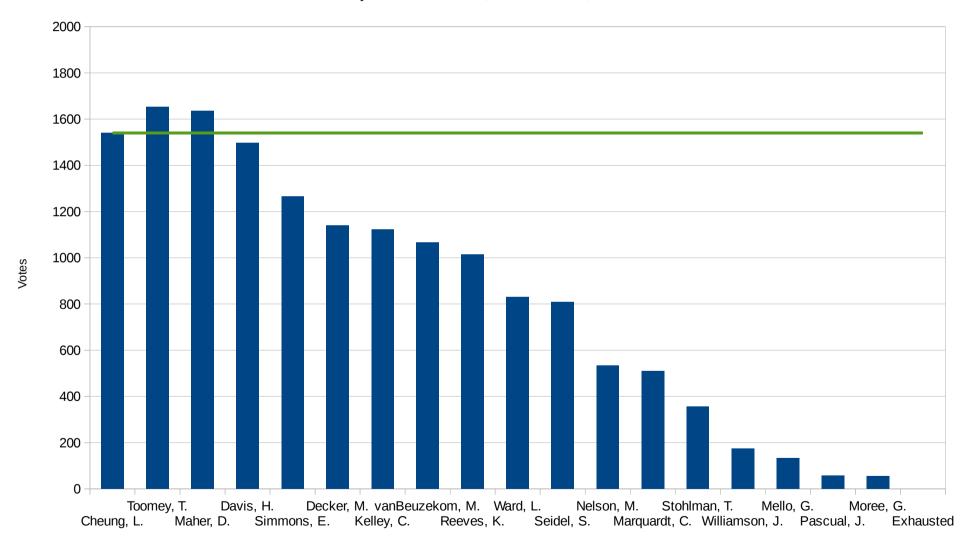
Example of
$$50\% + 1 = \left(\frac{100\% \text{ of votes}}{1 \text{ seat} + 1}\right) + 1$$

Example of Cambridge Massachussetts:

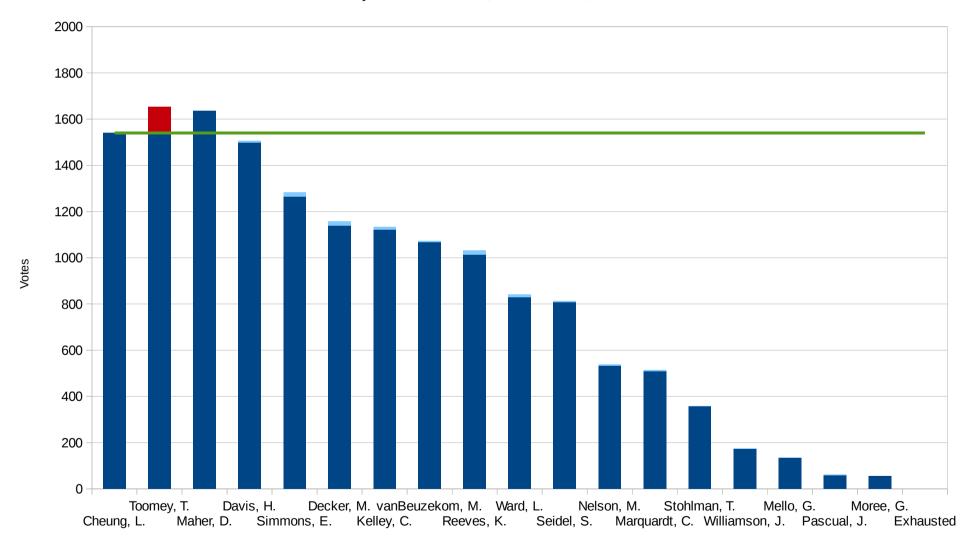
$$1540 = \left(\frac{15393 \text{ votes}}{9 \text{ seats} + 1}\right) + 1$$



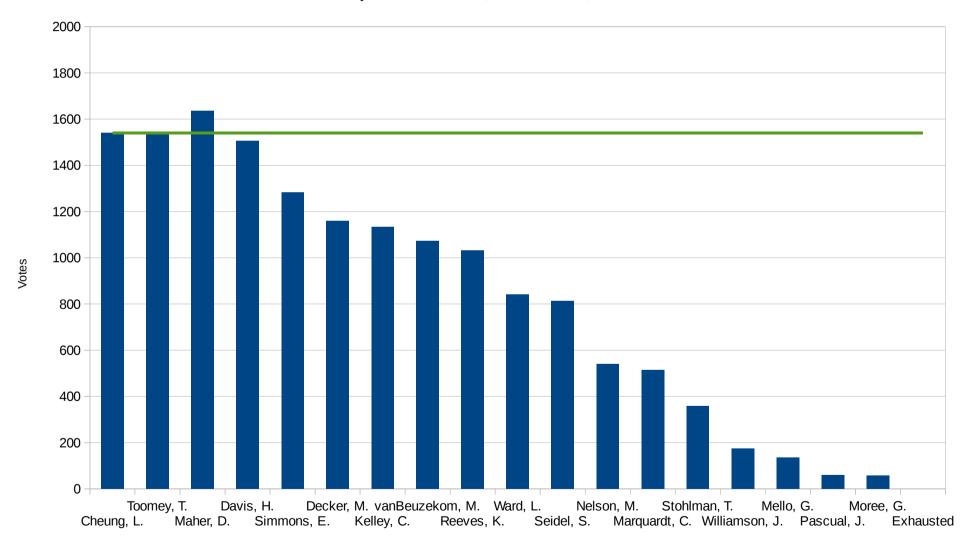
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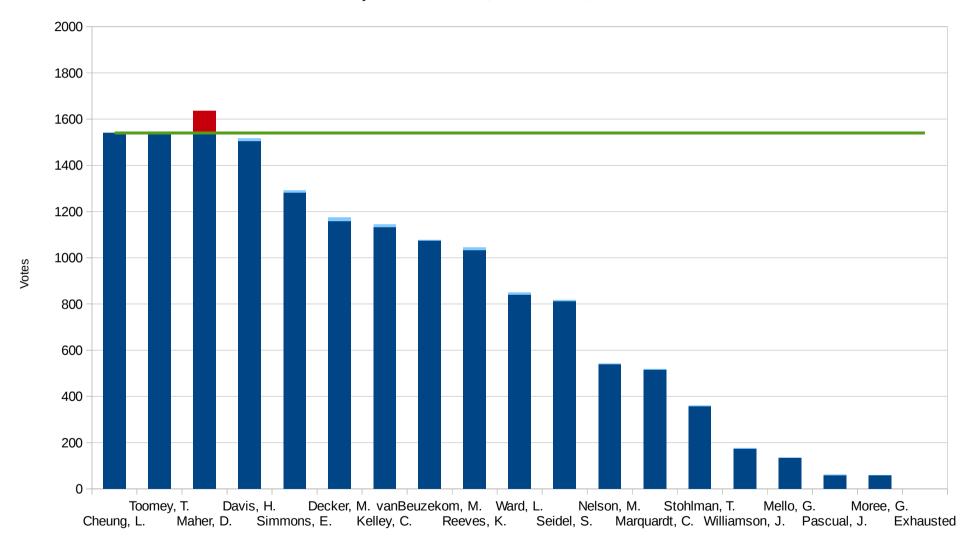
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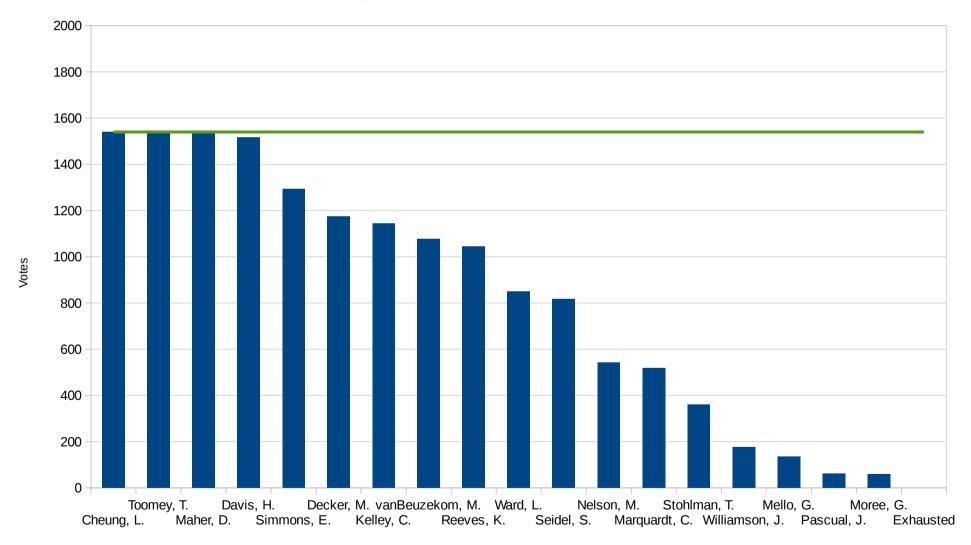
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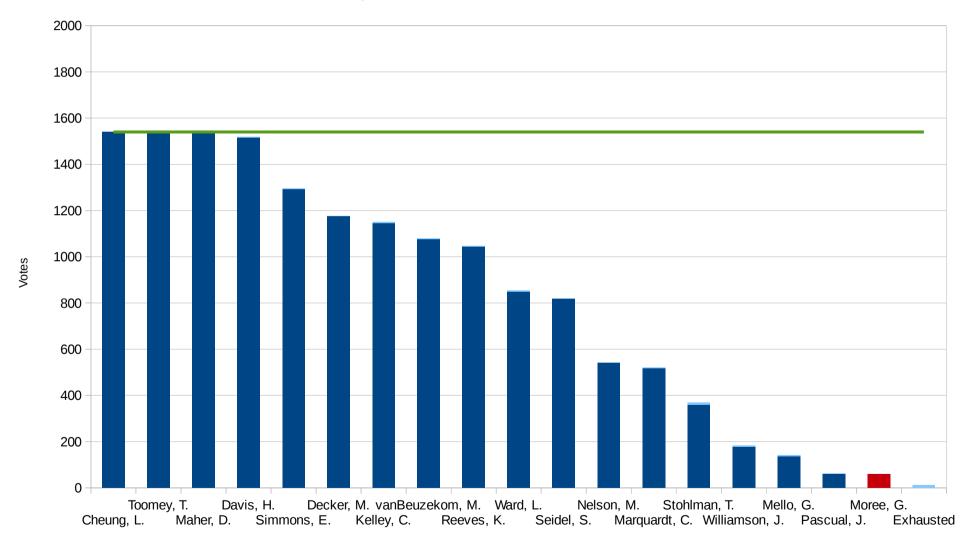
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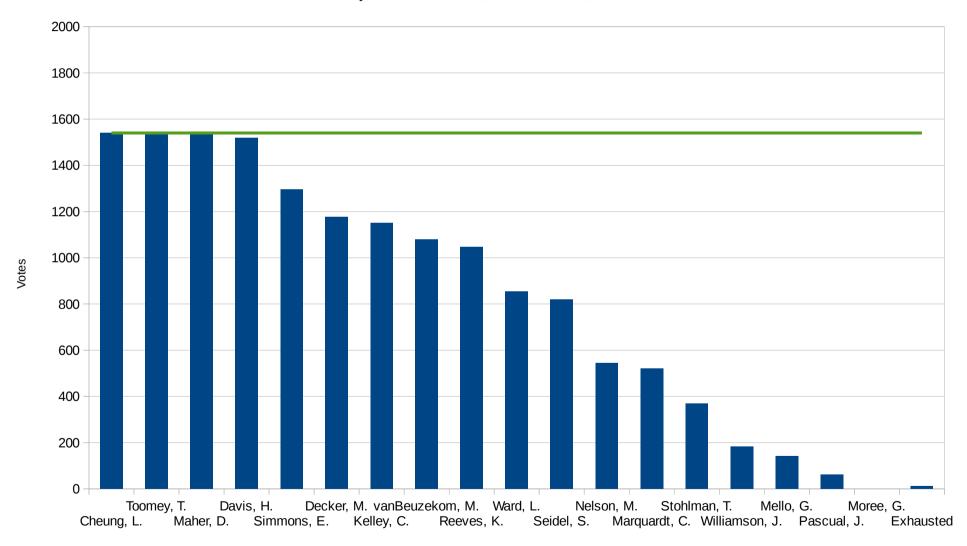
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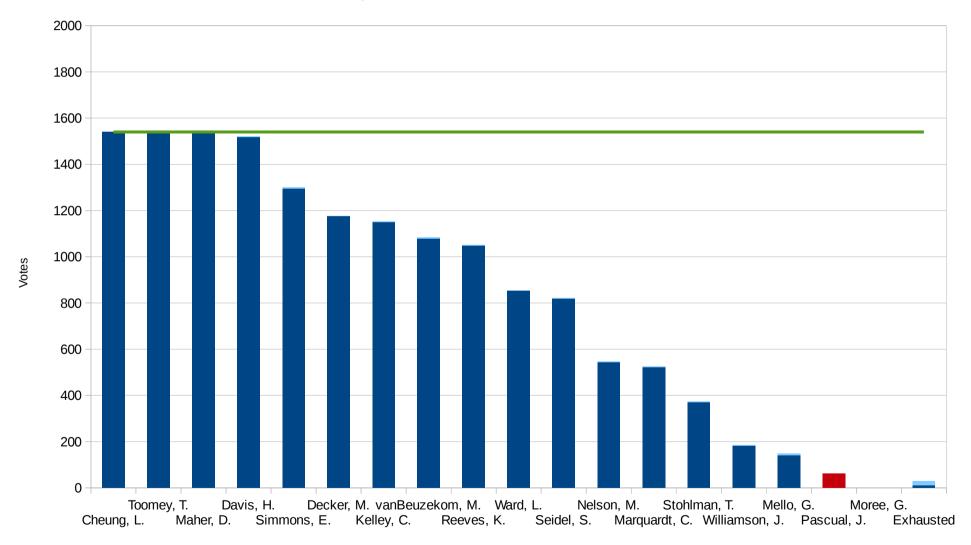
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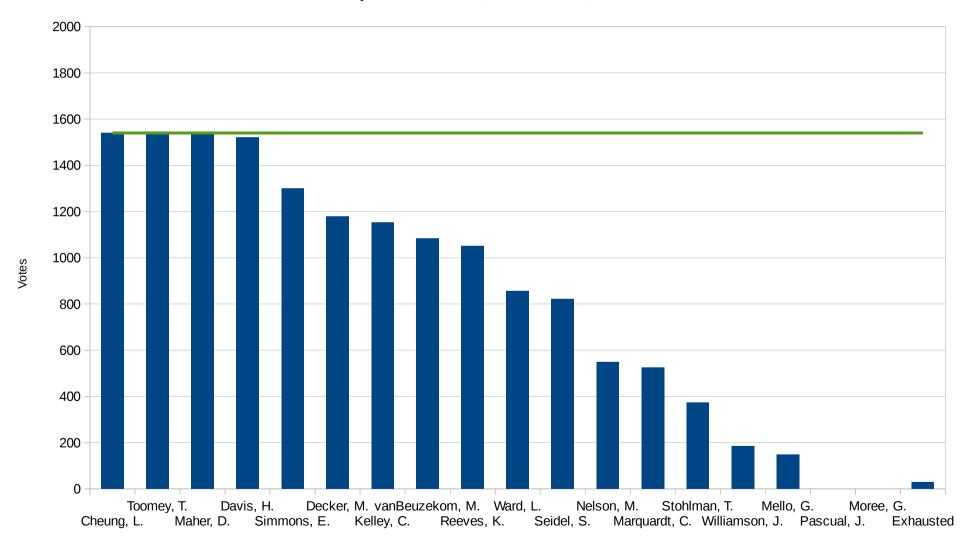
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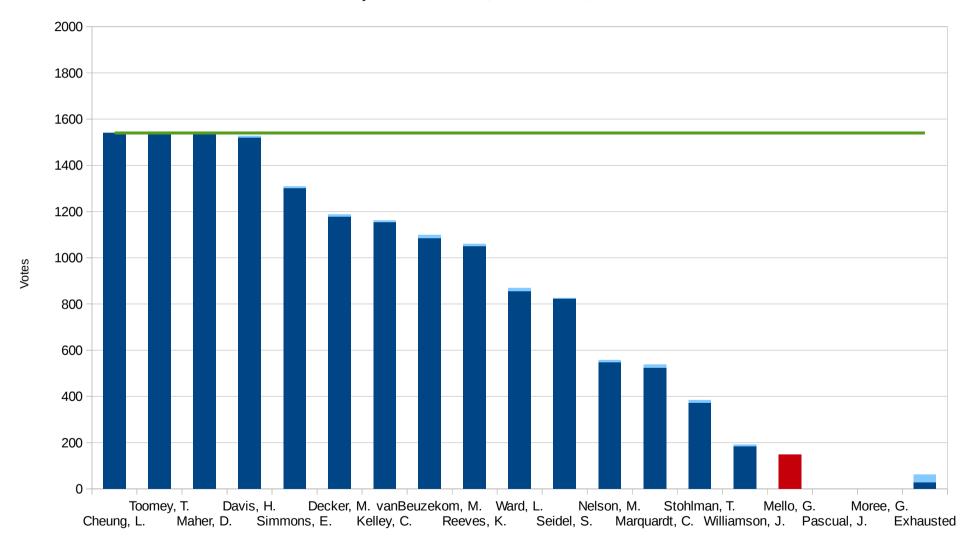
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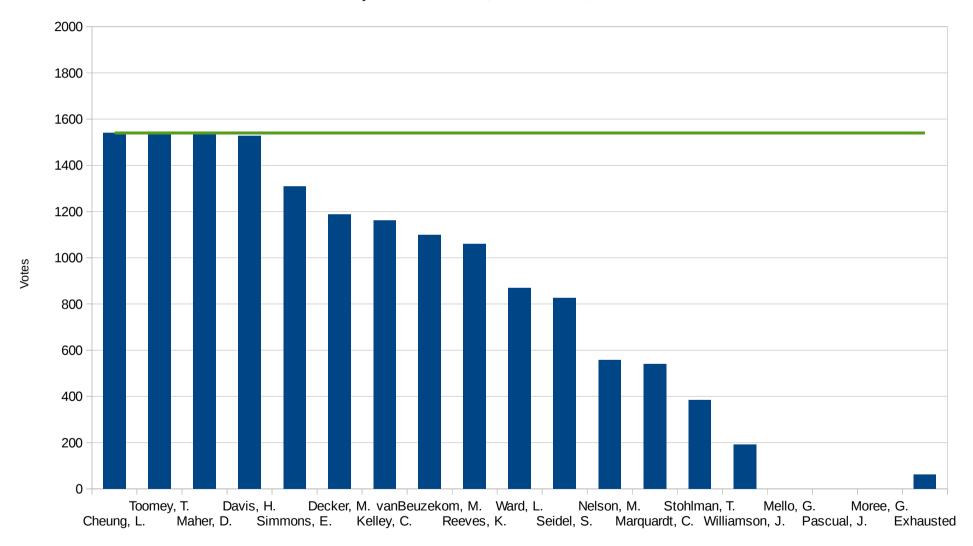
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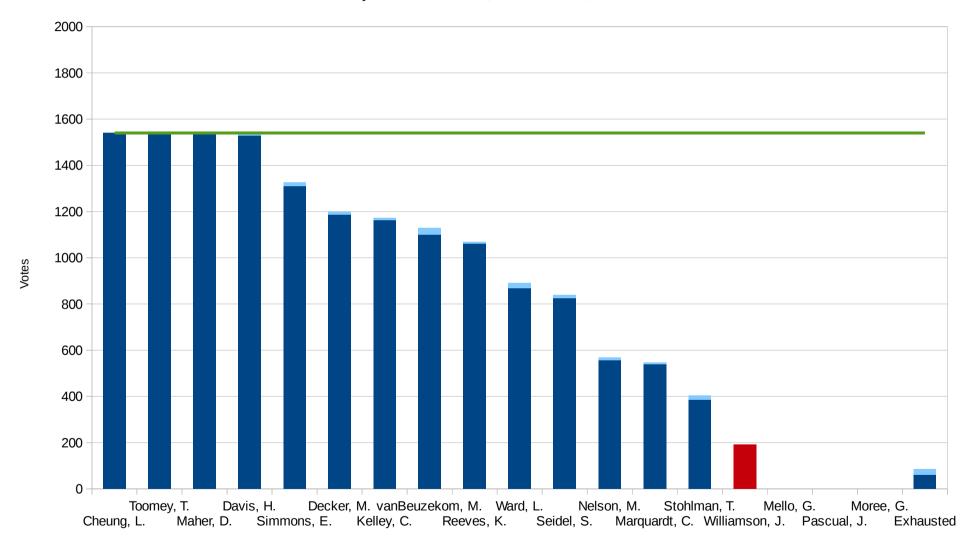
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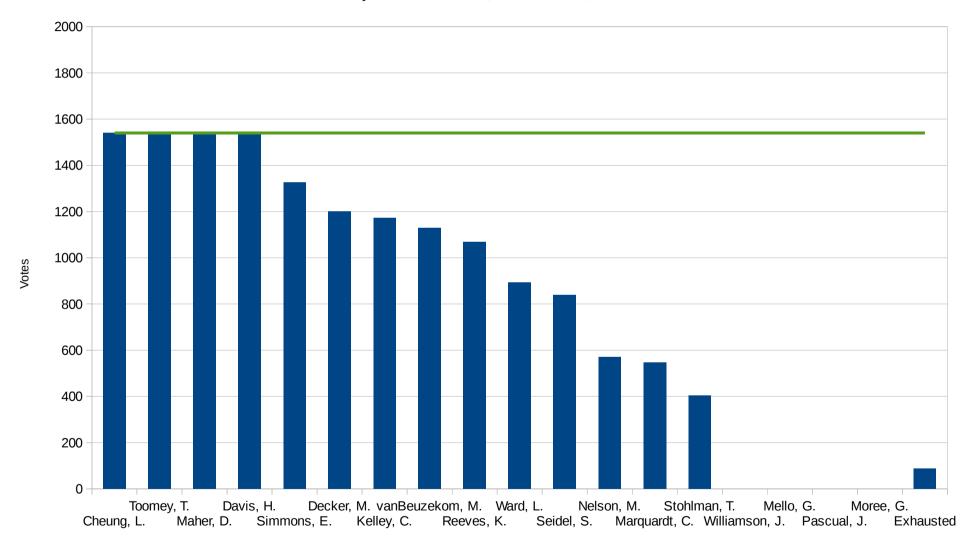
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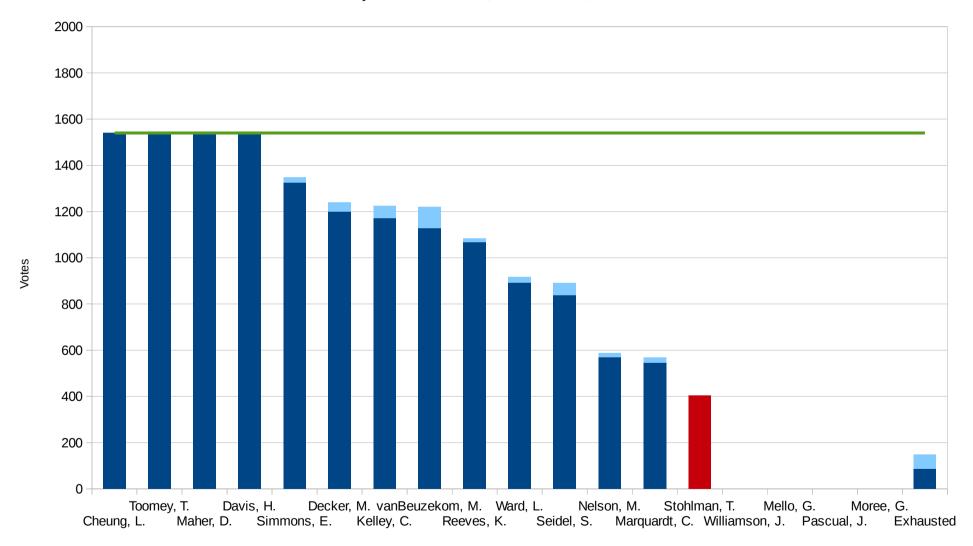
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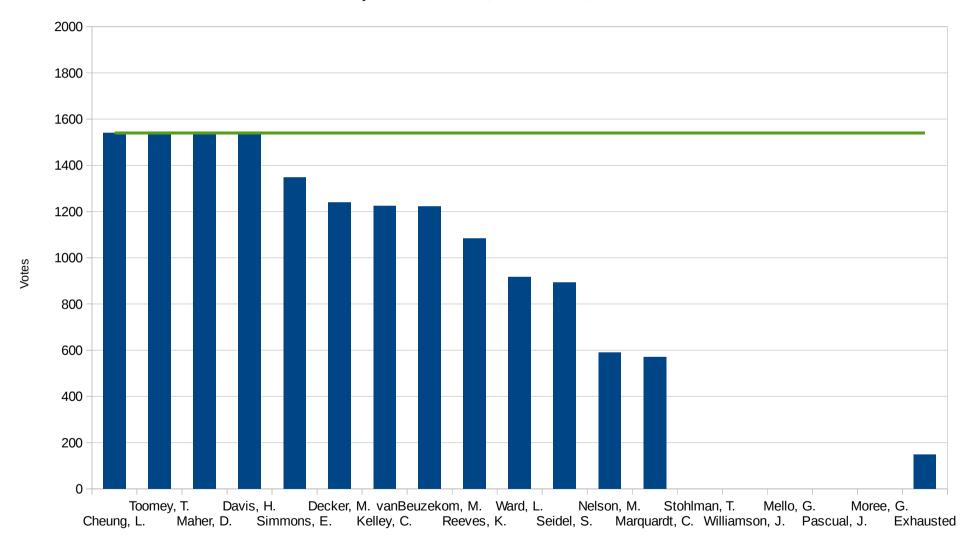
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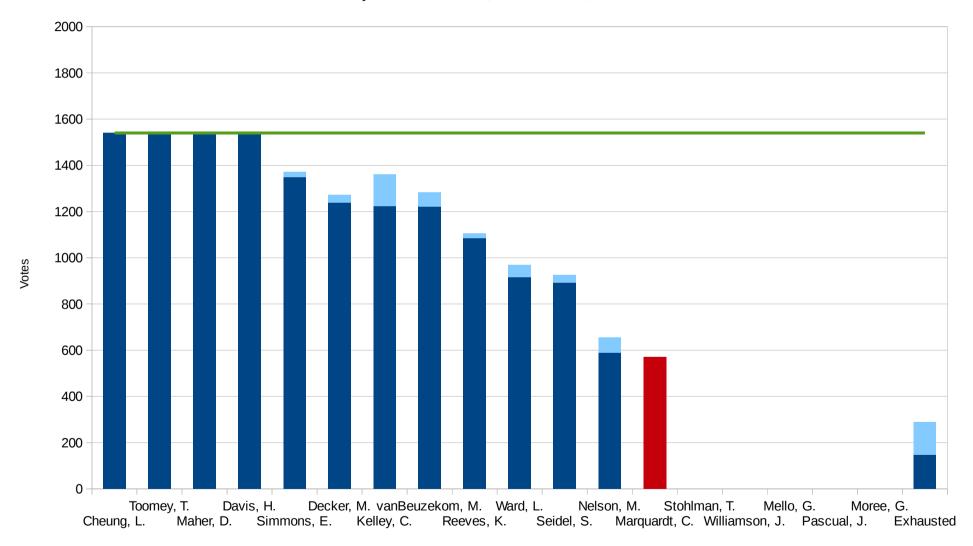
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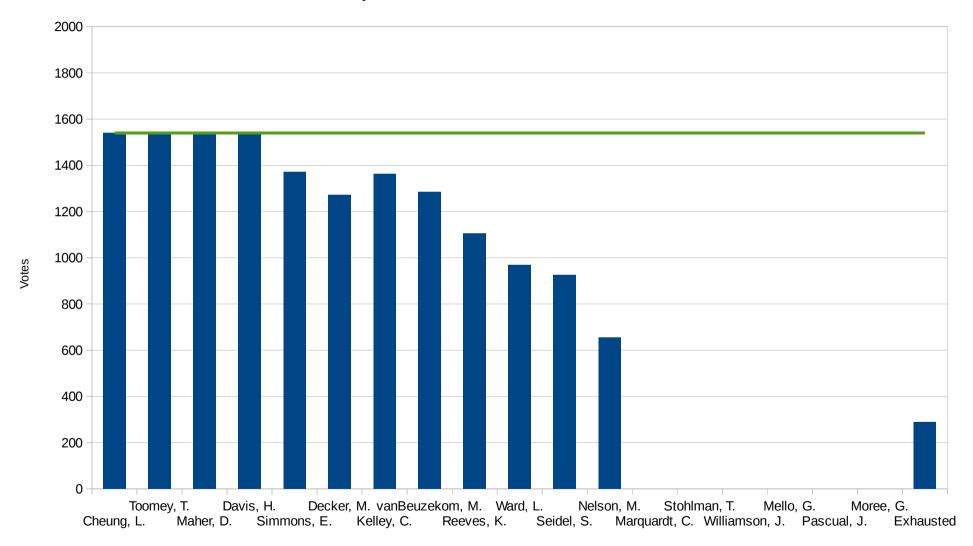
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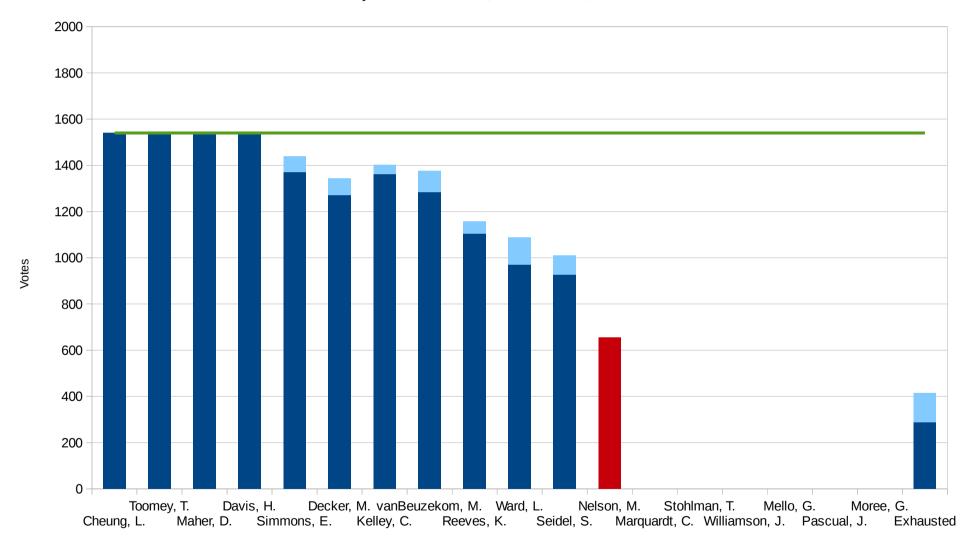
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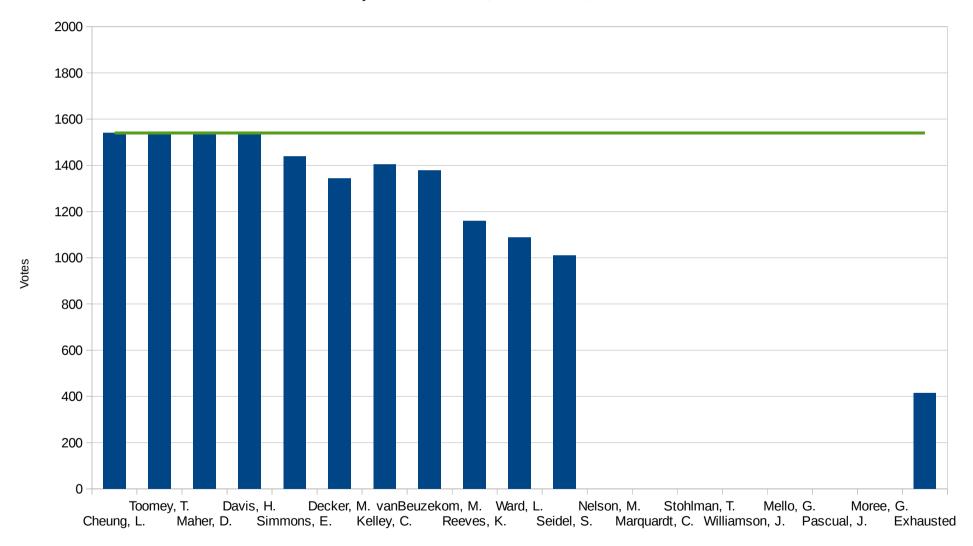
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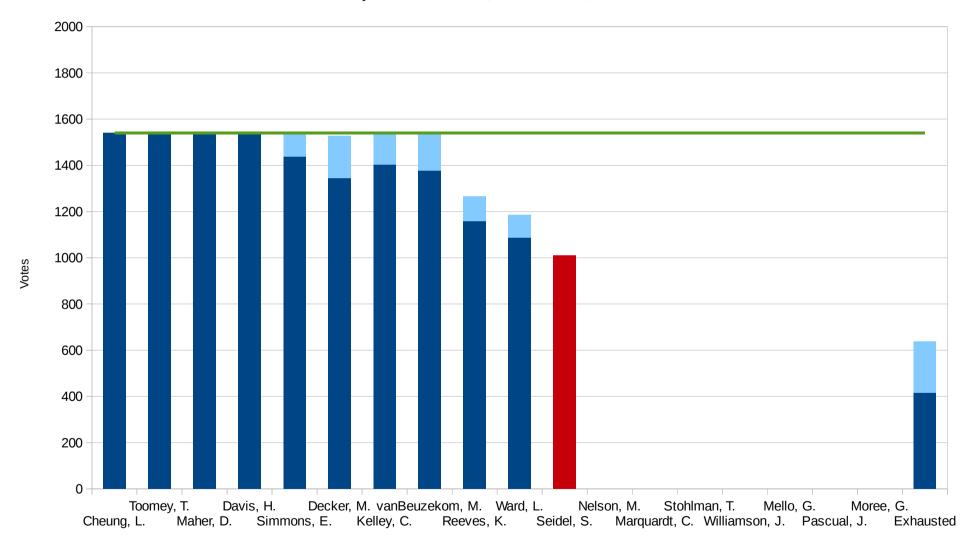
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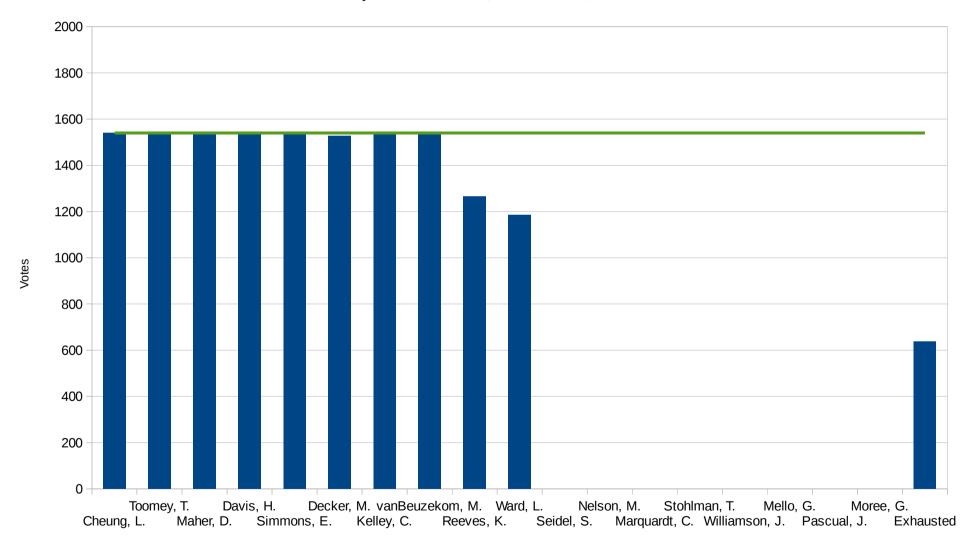
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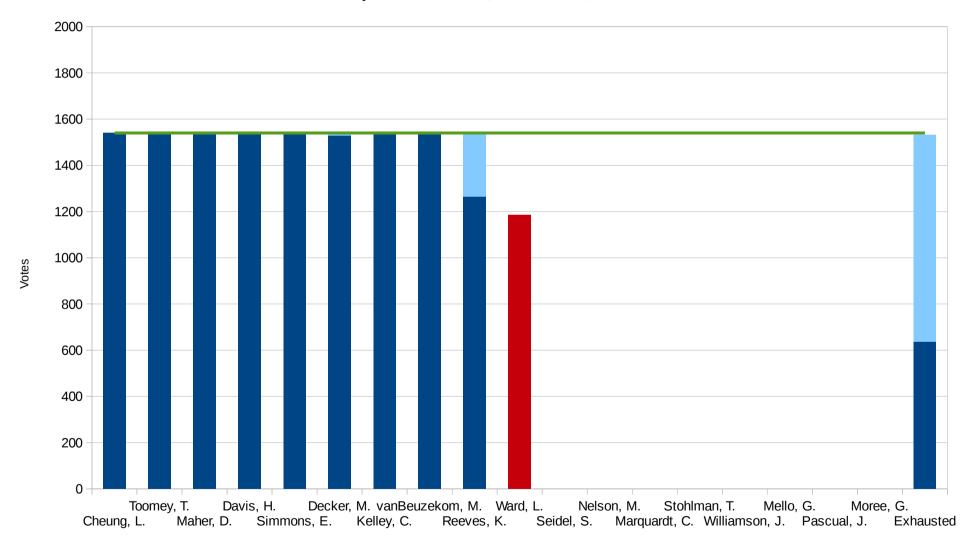
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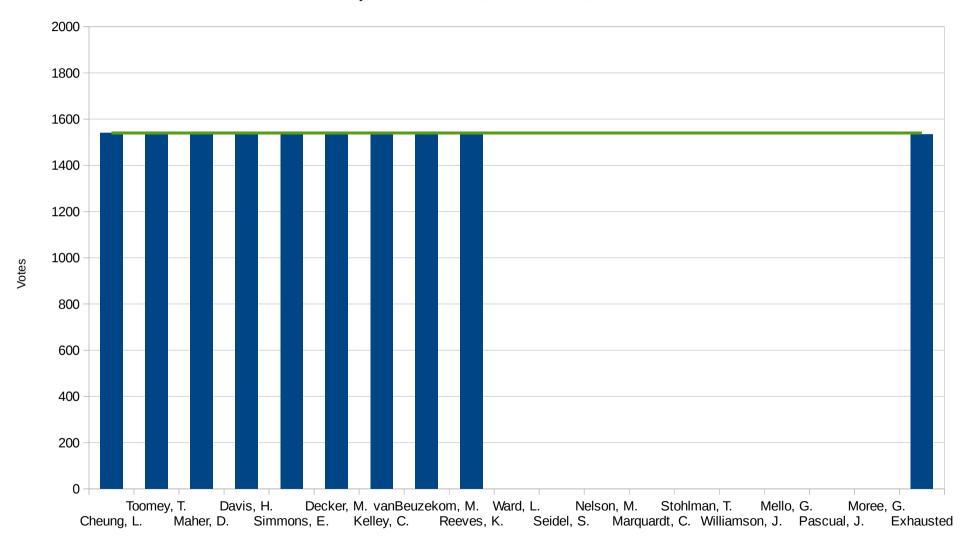
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Alternative Vote (not proportional)

- Also called Instant Runoff Voting or preferential voting
- Like STV, has a ranked ballot
- Only one seat per district
- Threshold is set to 50%

Where to go from here?

- Sign Declaration
- Update your information with FVC (postal code)
- Get candidates to sign the pledge
- Get a presentation in your community
- Get your organization to support the cause
- Get on our volunteers list : NCR@fairvote.ca
- Donate: http://www.fairvote.ca/donate/
- Write a letter: letters@ottawacitizen.com, editor@theequity.ca, editor@journalpontiac.com

Where to go from here?

170 MPs

A primer on voting systems

Questions?

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