

3.1 – Voting: Preference Aggregation

ECON 410 • Public Economics • Spring 2022

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 [ryansafner/publicS22](https://github.com/ryansafner/publicS22)

 publicS22.classes.ryansafner.com



Information Aggregation Mechanisms



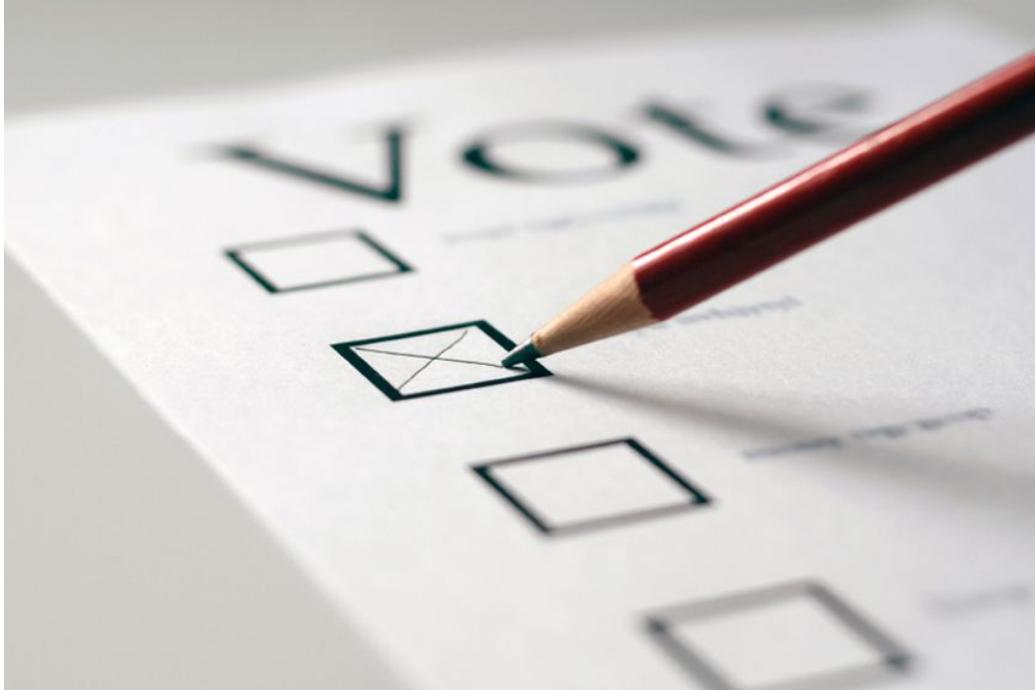
- **Markets** are a **discovery process** that use **prices** to aggregate dispersed knowledge about scarcity, preferences, and opportunities regarding resources
- Individual decisions maximize individual preferences within constraints

Information Aggregation Mechanisms



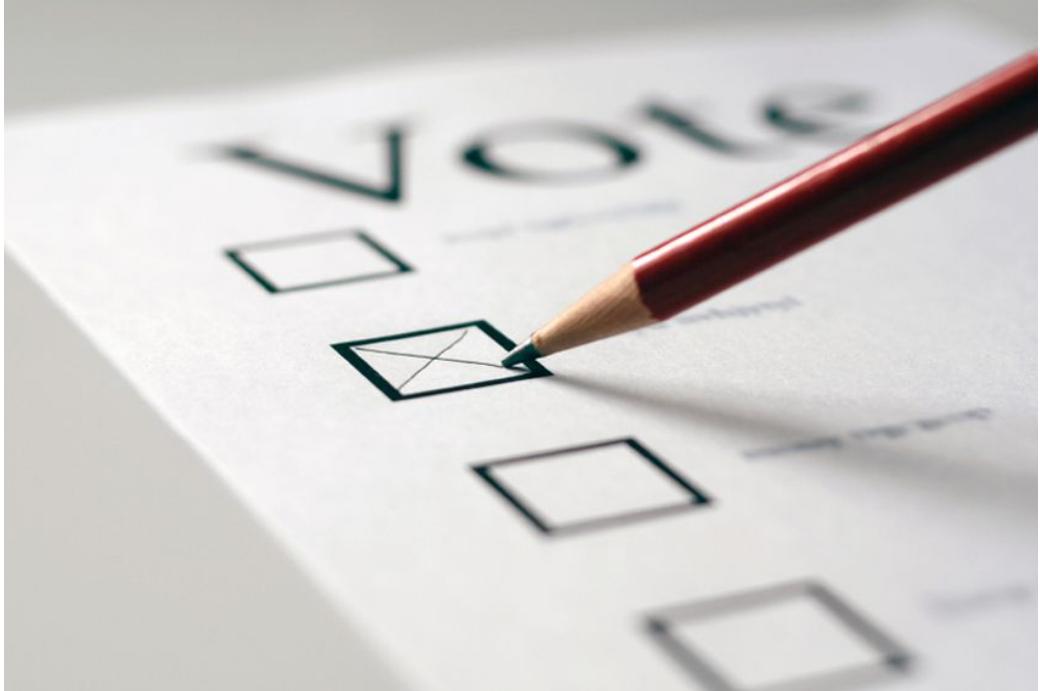
- **Politics** might be considered a **discovery process** that uses **votes** to aggregate dispersed knowledge about individual preferences into a single group choice

Information Aggregation Mechanisms



- “**Social choice theory**” studies how to aggregate individual preferences into a consistent group preference to reach a collective decision for a group
- Collective choice aims to maximize “group preferences” within constraints
- In practice: analysis of alternative voting rules

Information Aggregation Mechanisms



$$\begin{bmatrix} A \\ B \\ C \end{bmatrix}, \begin{bmatrix} B \\ A \\ C \end{bmatrix}, \dots, \begin{bmatrix} C \\ B \\ A \end{bmatrix} \implies \begin{pmatrix} \mathbf{A} \\ \mathbf{C} \\ \mathbf{B} \end{pmatrix}$$

Voting as an Information Aggregation Mechanism



- Voting of some form is common:
 - Citizens electing official
 - Legislators introducing, amending, and passing bills in committees or in full sessions
 - Regulators making a new rule
 - Jurors in criminal litigation
 - Justices on appeals courts
- Different procedures (pairwise votes, sequencing, etc), & require different levels of agreement (majority, supermajority, etc)

An Activity





Condorcet's Paradox

Vote Cycling

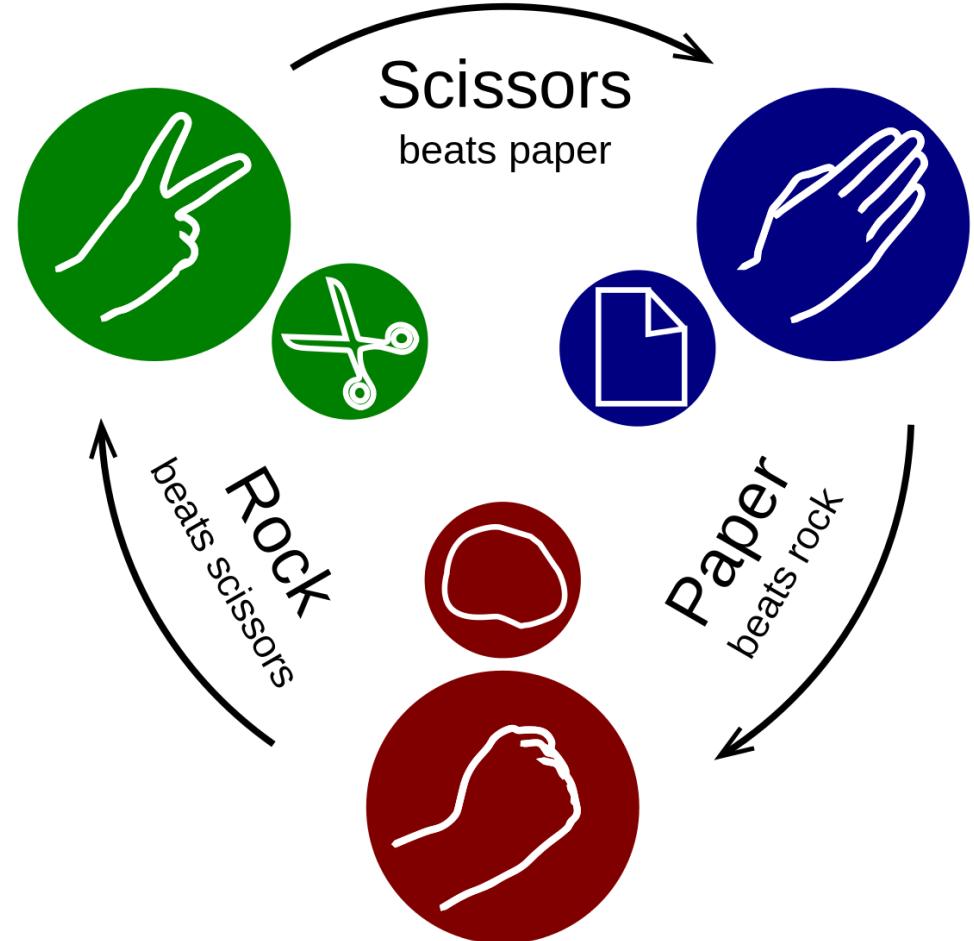


A vote with:

1. 3+ choosers
2. 3+ choices
3. Disagreement

leads to a **voting cycle**: a majority is opposed to every outcome

- Each option will lose to another alternative
- Note: it's NOT a three-way tie!



Condorcet's Paradox



Marquis of Condorcet

1743--1794

- **Condorcet Method:** pairwise voting between two alternatives that will elect a:
- **Condorcet winner:** can win a majority in any pairwise vote against all other candidates
 - “pairwise champion” or “beats-all winner”
- But with >2 candidates, >2 choosers, and disagreement, we get **Condorcet's paradox:** vote cycling

M. Le Marquis de Condorcet, *Essai Sur L'Application de L'Analyse a la Probabilite des Decisions Rendues a la pluralite des voix*

Condorcet's Paradox



Marquis of Condorcet

1743--1794

- Group preferences are often not transitive, even though individual preferences are transitive!
- For individual 1: $A \succ B \succ C$
- For individual 2: $B \succ C \succ A$
- For individual 3: $C \succ A \succ B$
- **For group:** $A \succ B \succ C \succ A \succ B \succ C \succ A\dots$
(intransitive)

Cycling as an Ontological Problem



- This is *not* an **epistemological problem** (problem of knowing the right information), this is an **ontological problem**:
- A “best alternative” does not exist!
- **Groups do not have preferences** when individual members disagree!



Cycling as an Ontological Problem



- So if there is a cycle, what is “**the will of the majority**”?
- Democracy is **radically indeterminate**: it cannot produce a “best outcome”
- When do we resort to voting? (When we need it the most!)



Cycling as an Ontological Problem



- More accurate question: the will of **which** majority shall we enact?
 - A majority is opposed to each alternative
 - It's not a three-way tie!
- **The outcome that gets determined depends on the rules of how we vote**
 - Is it A vs. B; or B vs. C; or A vs. C?



Cycling as an Ontological Problem



Source: [SMBC](#)

Cycling as an Ontological Problem



Source: [SMBC](#)

Cycling as an Ontological Problem

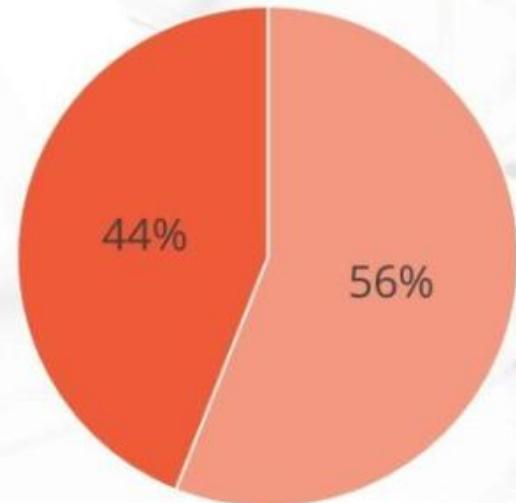


Source: [SMBC](#)

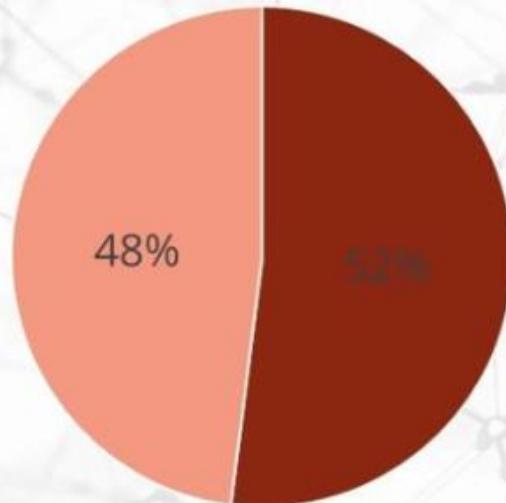
Condorcet's Brexit



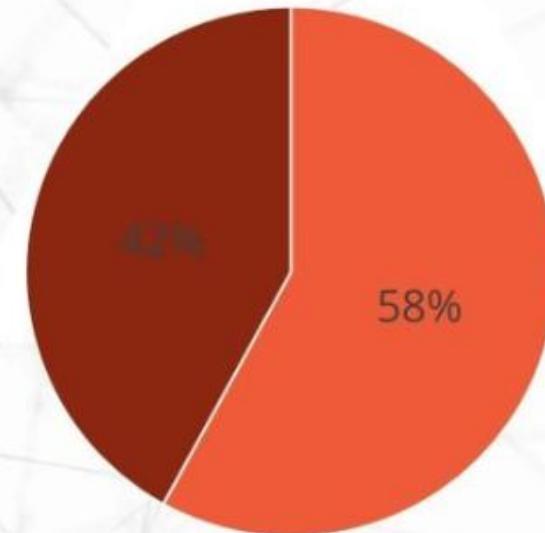
Thinking about your view of Brexit, for each of the following please say if it would be your first preference, second preference or third preference.



■ Remain ■ May Deal



■ No Deal ■ Remain



■ May Deal ■ No Deal

Source: Deltapoll · Fieldwork: 26th-27th November 2018 · Sample: 1,013 British adults

DELTAPOLL



Agenda Control and Strategic Voting

Agenda Control



- **Agenda control: whomever sets the agenda** (or sequence or rules of voting) **can determine the outcome**
- This is tantamount to **dictatorship!**



Agenda Control



- If there are many majorities, and one can set the rules, which majority will win?
- The one that is already wealthy and powerful
- People worry markets benefit the wealthy...what about politics?



Strategic Voting



| | Amy | Ben | Carla |
|----|----------|----------|----------|
| 1. | Apples | Broccoli | Carrots |
| 2. | Broccoli | Carrots | Apples |
| 3. | Carrots | Apples | Broccoli |

- Voting rule: Broccoli vs. Carrots; then Winner vs. Apples

Strategic Voting



| | Amy | Ben | Carla |
|----|----------|----------|----------|
| 1. | Apples | Broccoli | Carrots |
| 2. | Broccoli | Carrots | Apples |
| 3. | Carrots | Apples | Broccoli |

- Voting rule: Broccoli vs. Carrots; then Winner vs. Apples
 - 1. **Broccoli: 2** vs. Carrots: 1

Strategic Voting



| | Amy | Ben | Carla |
|----|----------|----------|----------|
| 1. | Apples | Broccoli | Carrots |
| 2. | Broccoli | Carrots | Apples |
| 3. | Carrots | Apples | Broccoli |

- Voting rule: Broccoli vs. Carrots; then Winner vs. Apples
 - 1. **Broccoli: 2** vs. Carrots: 1
 - 2. Broccoli: 1 vs. **Apples: 2**
- Result: Apples win

Strategic Voting



| | Amy | Ben | Carla |
|----|----------|----------|----------|
| 1. | Apples | Broccoli | Carrots |
| 2. | Broccoli | Carrots | Apples |
| 3. | Carrots | Apples | Broccoli |

- Voting rule: Broccoli vs. Carrots; then Winner vs. Apples
- Ben likes Apples the least
- He recognizes that under this voting rule, Apples will win

Strategic Voting



| | Amy | Ben | Carla |
|----|----------|----------|----------|
| 1. | Apples | Broccoli | Carrots |
| 2. | Broccoli | Carrots | Apples |
| 3. | Carrots | Apples | Broccoli |

- Voting rule: Broccoli vs. Carrots; then Winner vs. Apples
- Ben likes Apples the least
- He recognizes that under this voting rule, Apples will win
- Suppose instead, in the first round, he votes for Carrots instead of Broccoli (even though he prefers Broccoli)

Strategic Voting



| | Amy | Ben | Carla |
|----|----------|----------|----------|
| 1. | Apples | Broccoli | Carrots |
| 2. | Broccoli | Carrots | Apples |
| 3. | Carrots | Apples | Broccoli |

- Voting rule: Broccoli vs. Carrots; then Winner vs. Apples
 - 1: Broccoli: 1 vs. **Carrots 2**
 - 2: **Carrots: 2** vs. Apples 1
- In effect, a vote for Carrots *against his preferences* in the first round ensures Carrots win the second round
- This is **strategic voting**: voting against one's true preferences to change the (often a later-round) outcome

Strategic Voting



- By **strategic voting**, can overcome **agenda control** problem
- So not truly dictatorship then: if elites & incumbents use agenda control, voters can vote strategically



Strategic Voting



- But what then of the information aggregation mechanisms of voting?
 - People no longer reveal their true preferences by voting!
- **Why is voting legitimate or sacred if people don't truly reveal their preferences?**
- Further problem: strategic voting is easy with 3 voters, how about *300 million*?



Two Problems with Democracy



- Democracy is inherently unstable because of it **cannot handle disagreement**, which causes:
 1. **Agenda control**
 - dictatorship with trappings of democracy
 2. **Strategic voting/dissident action**
 - process loses legitimacy, people are *lying* with their votes



Two Problems with Democracy



- People will look for “extraconstitutional” solutions to solve the instability
 - Coups, revolutions, trust in a “strong man” (dictator)



Pure Democracy Leads To...



Pure Democracy Leads To...



Again, No Countries are Pure Democracies



- No country in the world is a *pure* democracy, cannot handle disagreement

Either:

1. a well-constructed **constitutional republic ("liberal democracy")** with **constitutional rules that restrict majority rule**
2. a **dictatorship**



Both solve democracy's problems!

German Democracy in 1930s



Russian Democracy Today



Mr. Putin [is surprisingly popular] with ordinary Russians, most of whom preferred the stability that he brought to the more democratic chaos of Boris Yeltsin." - [The Economist \(June 9, 2012\) Review](#) of Masha Gessen, 2012, *The Man Without a Face: The Unlikely Rise of Vladimir Putin*

Egyptian Democracy...?



Democracy in Hungary



NEWS

Viktor Orban: Era of 'liberal democracy' is over

The EU should give up "nightmares" of United States of Europe, said Hungarian nationalist leader Viktor Orban while starting his fourth term as prime minister. He won a landslide victory in a recent parliamentary vote.

[f](#) [t](#) [g](#) [e](#) [+](#)



Kicking off his fourth term as prime minister on Thursday, Hungary's Viktor Orban declared the era of liberal democracy to be over.

© Getty Images/AFP/A. Kospánédék

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NEWS

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Germany's top...

"[T]he most popular topic in thinking today is trying to understand how systems that are not Western, not liberal, not liberal democracies, and perhaps not even democracies, can nevertheless make their nations successful." [Source](#)

Source: [DW \(May 5, 2018\)](#)



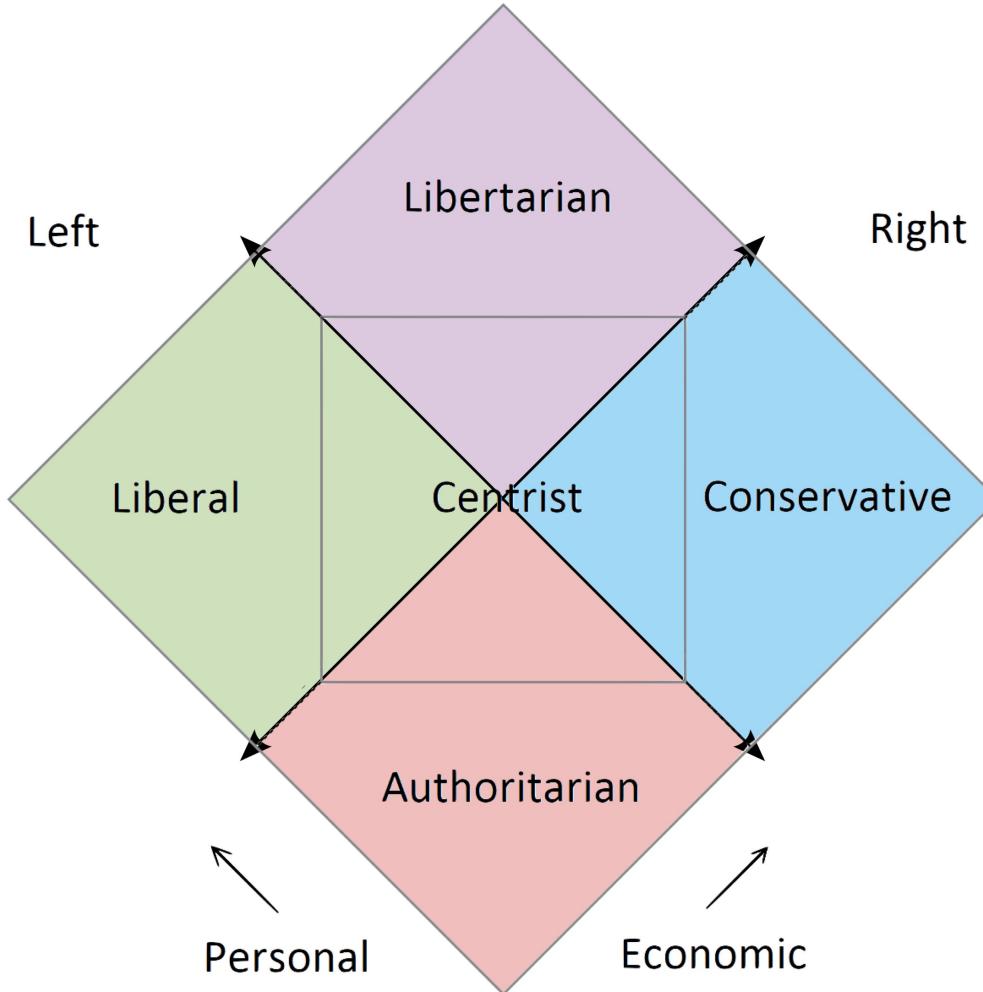
Spatial Voting Theory

Spatial Voting Theory



- We can get a bit more advanced about preferences beyond mere orderings (e.g. $A \succ B \succ C$)
- Also, ways to avoid cycling
- Consider competition between candidates or proposals in **issue space** (i.e. a range of alternative choices along a single dimension)

We Often Think Spatially About Politics



Spatial Voting Theory



Features of Spatial Competition models:

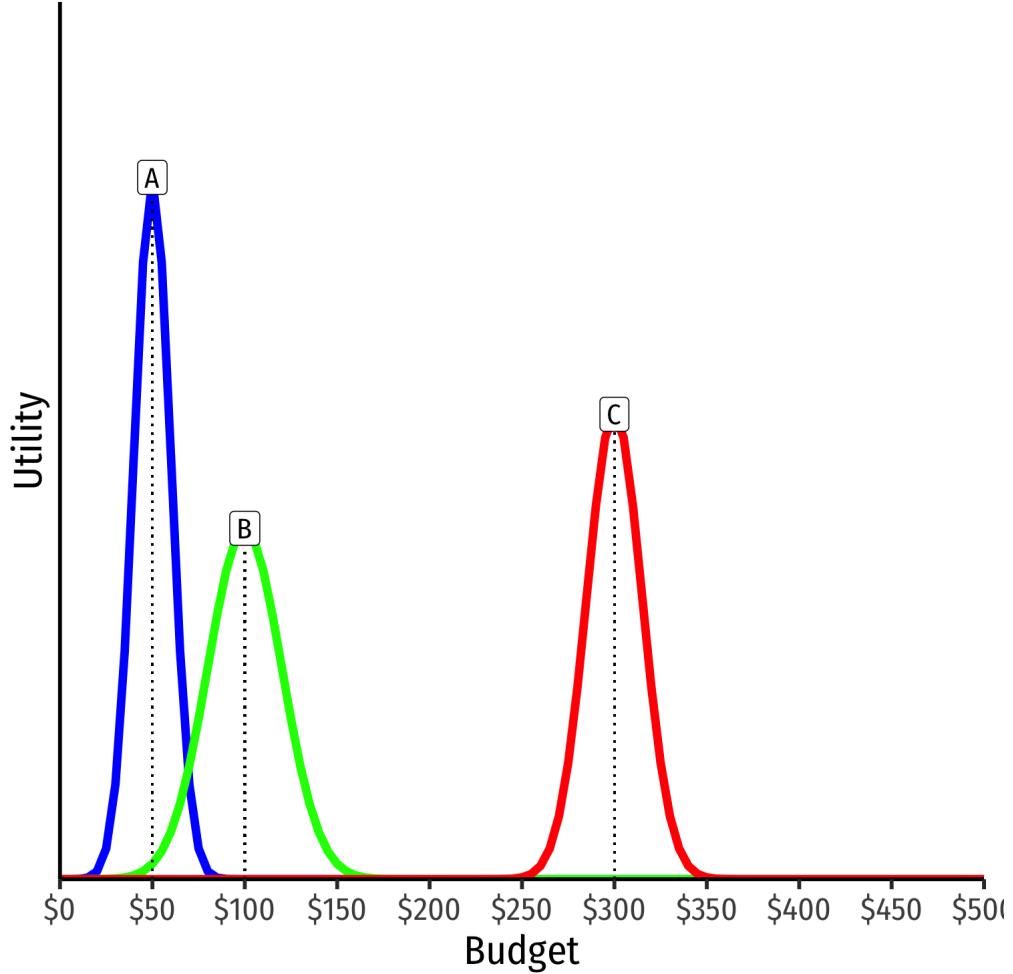
1. Voter preferences are represented by distance

- Preferences are "single-peaked" with unique ideal preference
- Voters prefer candidates or proposals closer to their ideal preference
- Less distance \implies greater utility

2. Platforms are formed endogenously

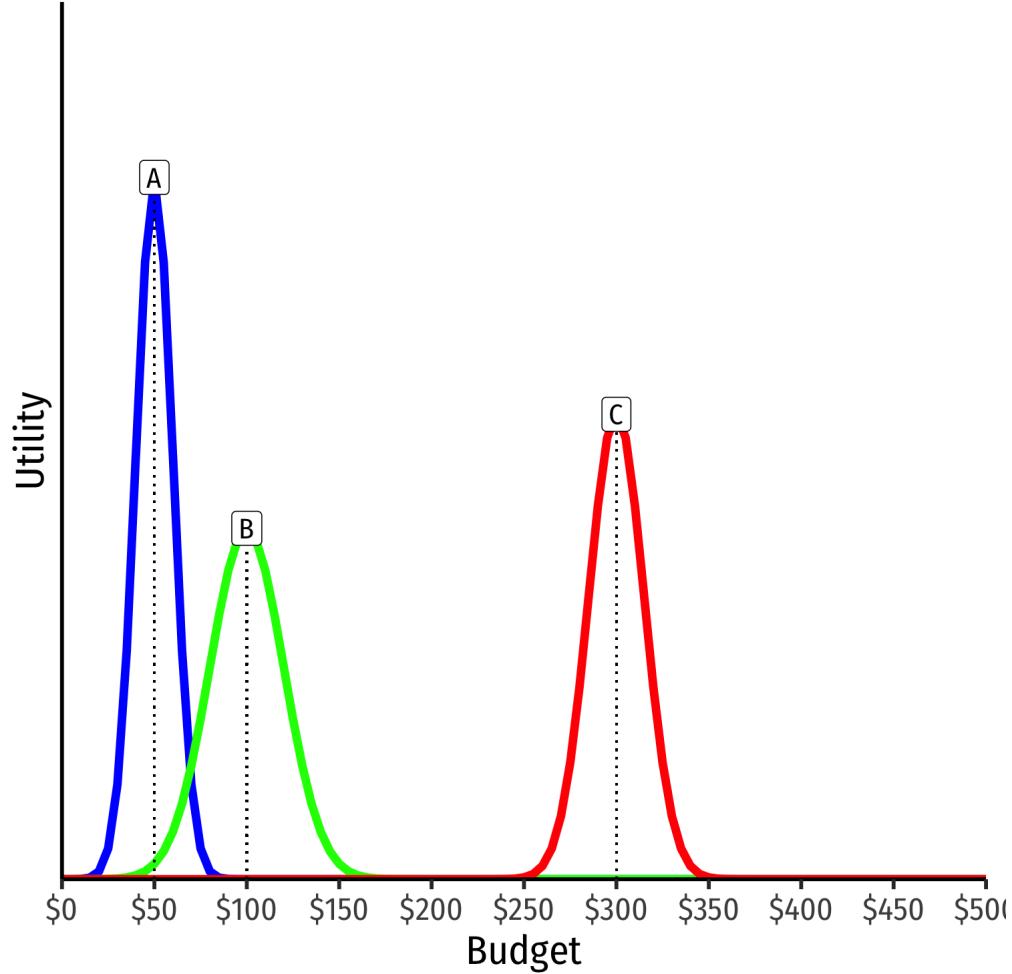
- Candidates (or proposals) compete *spatially*
- Want to maximize the number of voters "close" to your platform
- Under these assumptions, a testable prediction about the outcome: **The center (median) of the distribution of preferences is a Condorcet winner**

Spatial Voting Example



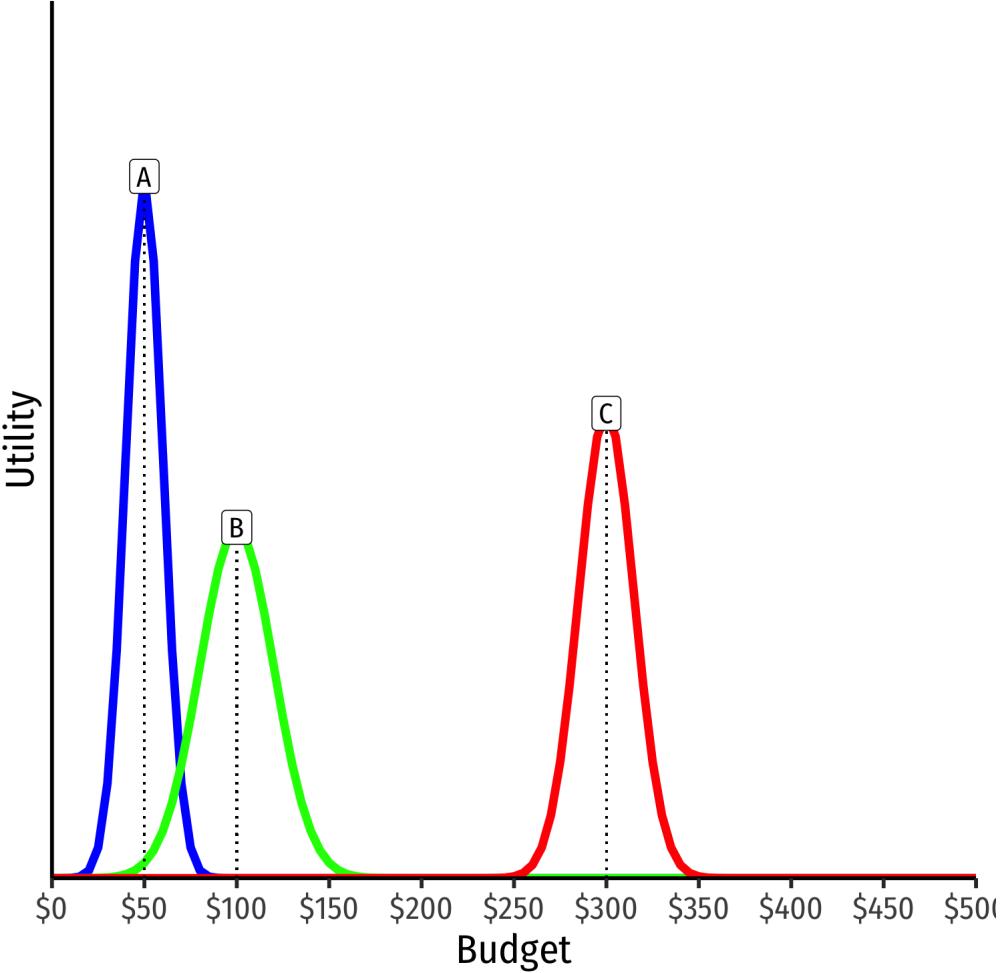
- **Example:** Consider a committee of three members (**A**, **B**, **C**)
 - Vote is on how much to spend on budget to host a party
 - Height is level of utility for each voter

Spatial Voting Example



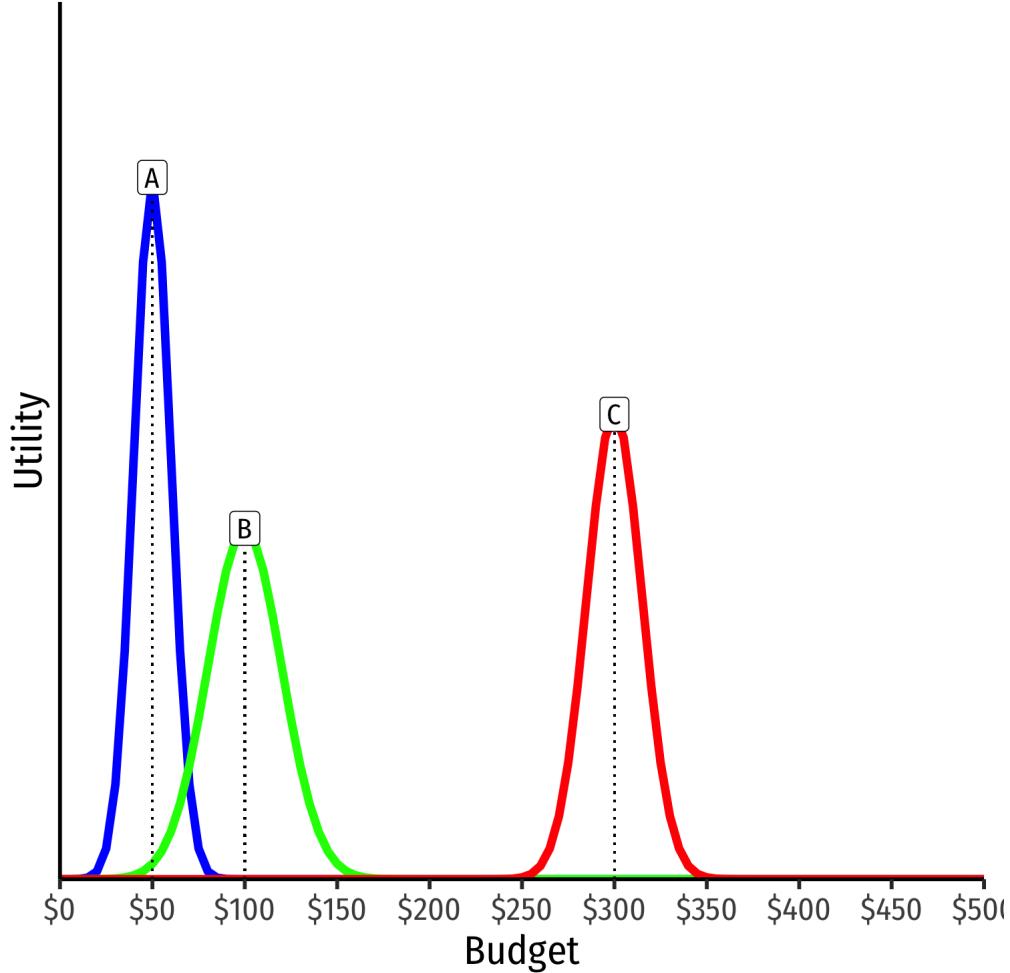
- Each voter has **single-peaked preferences**
 - **Ideal point** of how much to spend (peak)
 - Utility decreases with distance (in each direction) away from ideal point

Spatial Voting Example



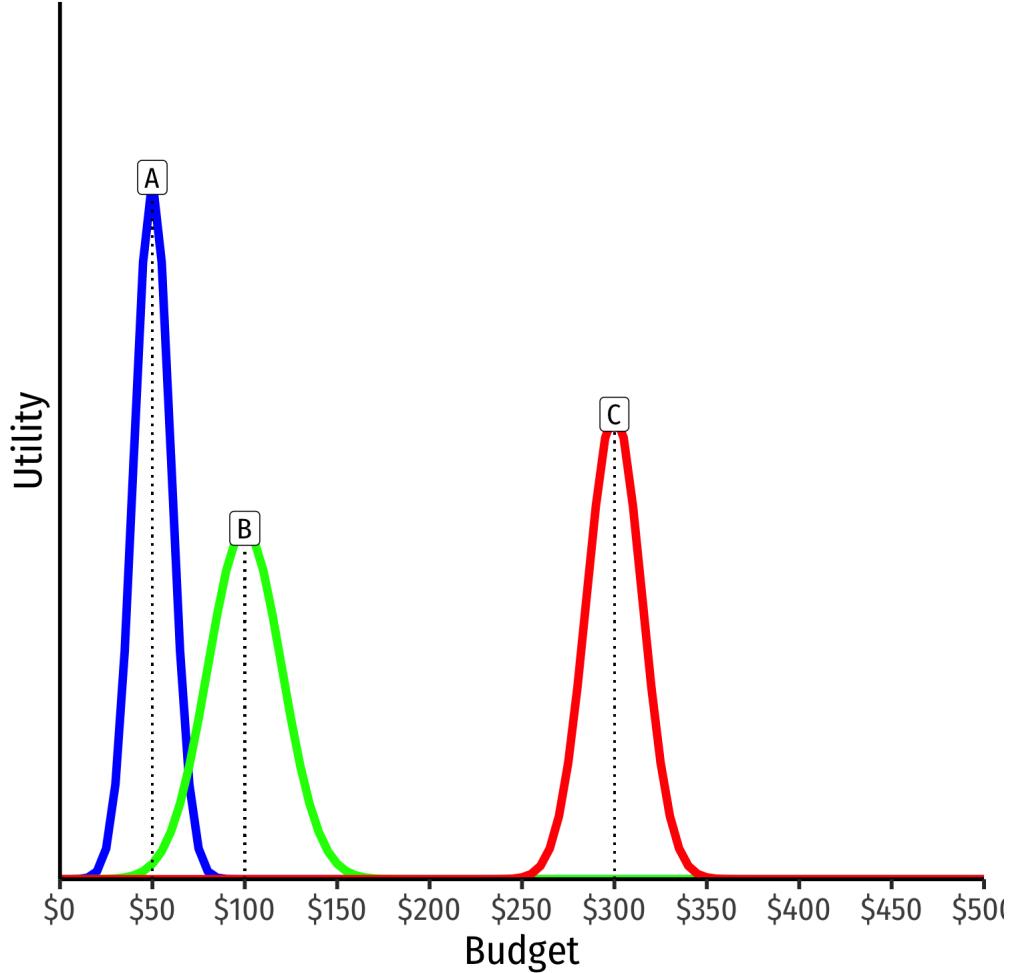
- Suppose any voter is allowed to make a proposal, e.g.
 - **A** will propose a budget of \$50
 - **B** will propose a budget of \$100
 - **C** will propose a budget of \$300
- The question is, what will happen?
- Consider pairwise voting between alternatives...

Spatial Voting Example



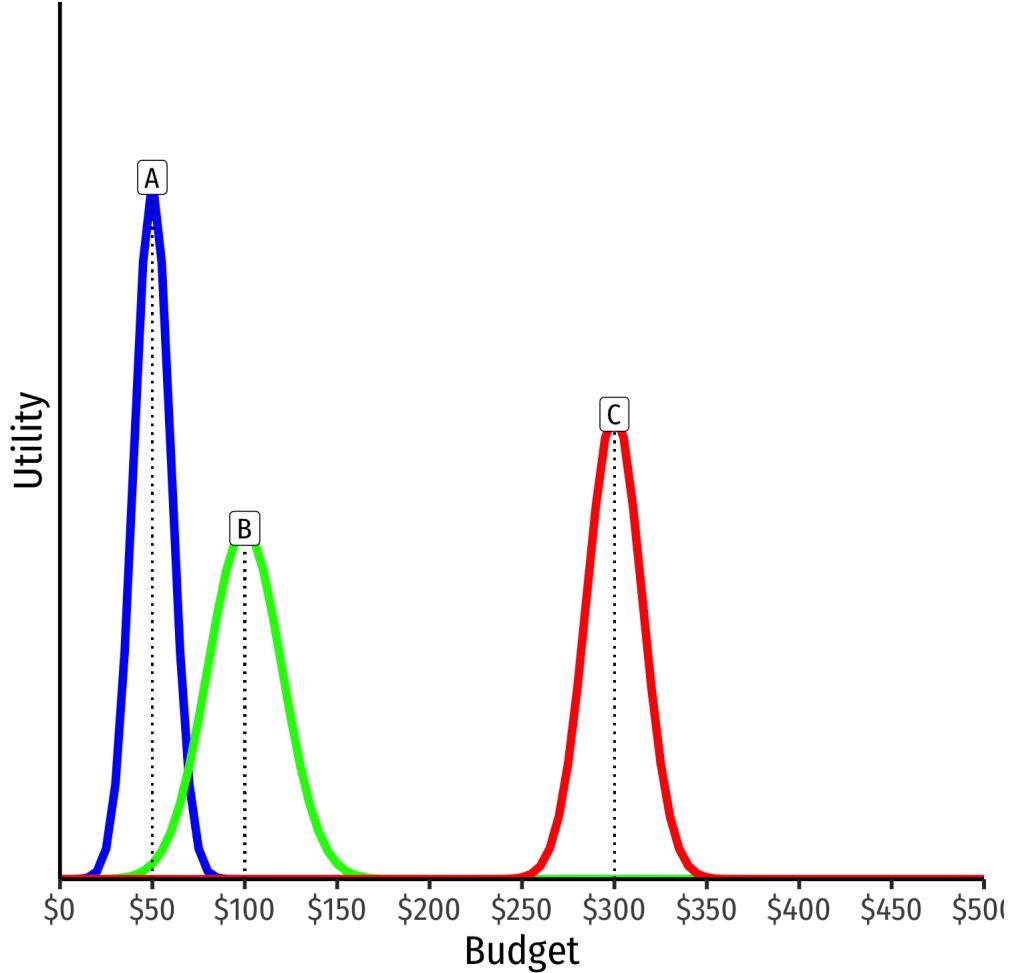
- Suppose two proposals are put forth: **\$50** and **\$300**
- Voters vote for proposal that is closer to their ideal point:
 - \$50: **A** and **B**
 - \$300: **C**
 - \$50 wins

Spatial Voting Example



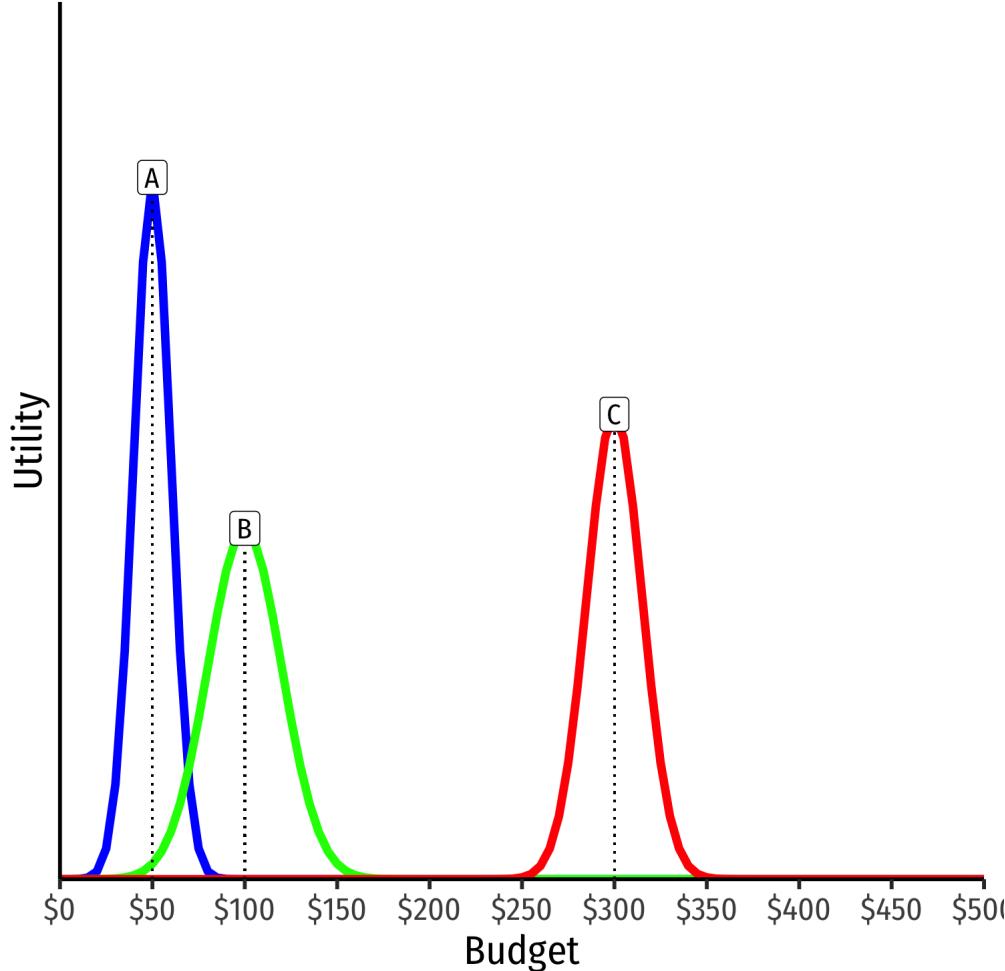
- Suppose two proposals are put forth: **\$50** and **\$100**
- Voters vote for proposal that is closer to their ideal point:
 - \$50: **A**
 - \$100: **B** and **C**
 - \$100 wins

Spatial Voting Example



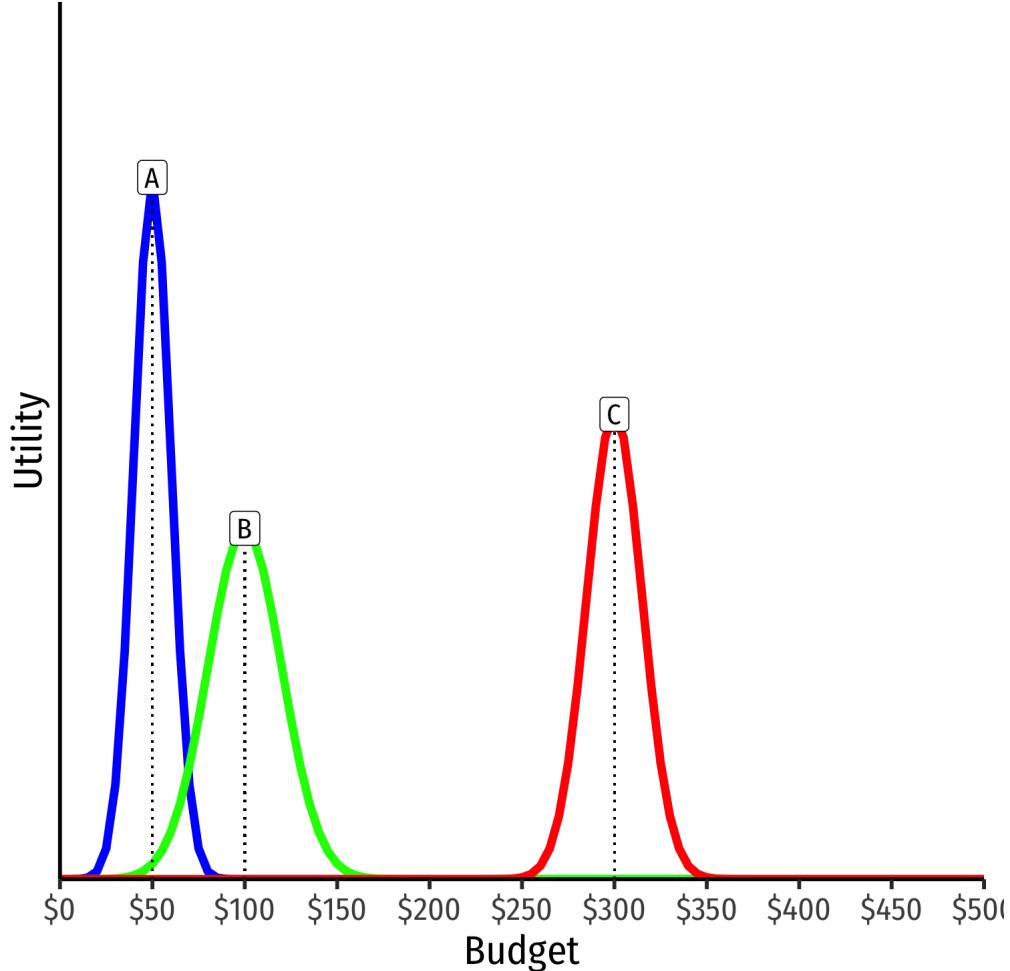
- Suppose two proposals are put forth:
\$100 and \$300
- Voters vote for proposal that is closer to their ideal point:
 - \$100: **A** and **B**
 - \$300: **C**
 - \$100 wins

Spatial Voting Example



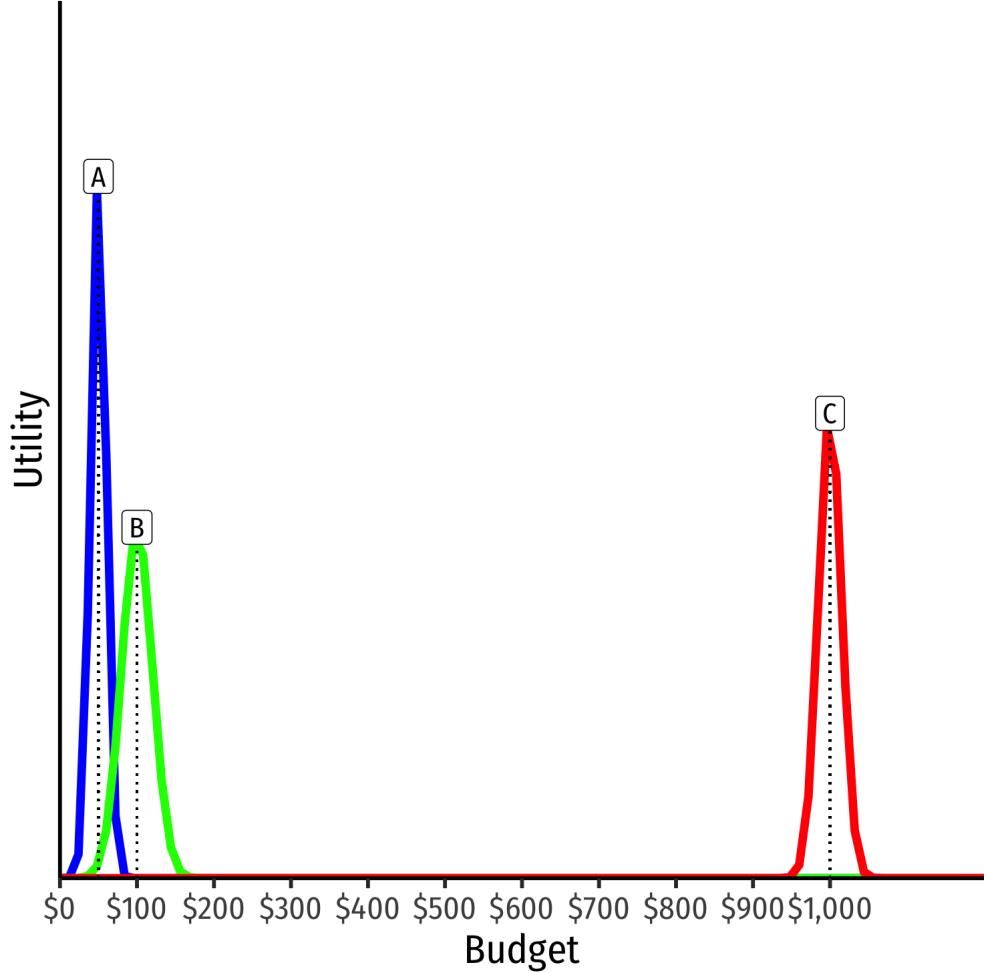
- \$100, if it ever gets proposed, is a **Condorcet winner**, it will defeat any alternative
 - $\$100 \succ \50
 - $\$100 \succ \300
- This is because it is the **median**, it has enough supporters of alternatives on either side of it
 - Each side would rather support the median than the platform on the opposite side

Median Voter Theorem



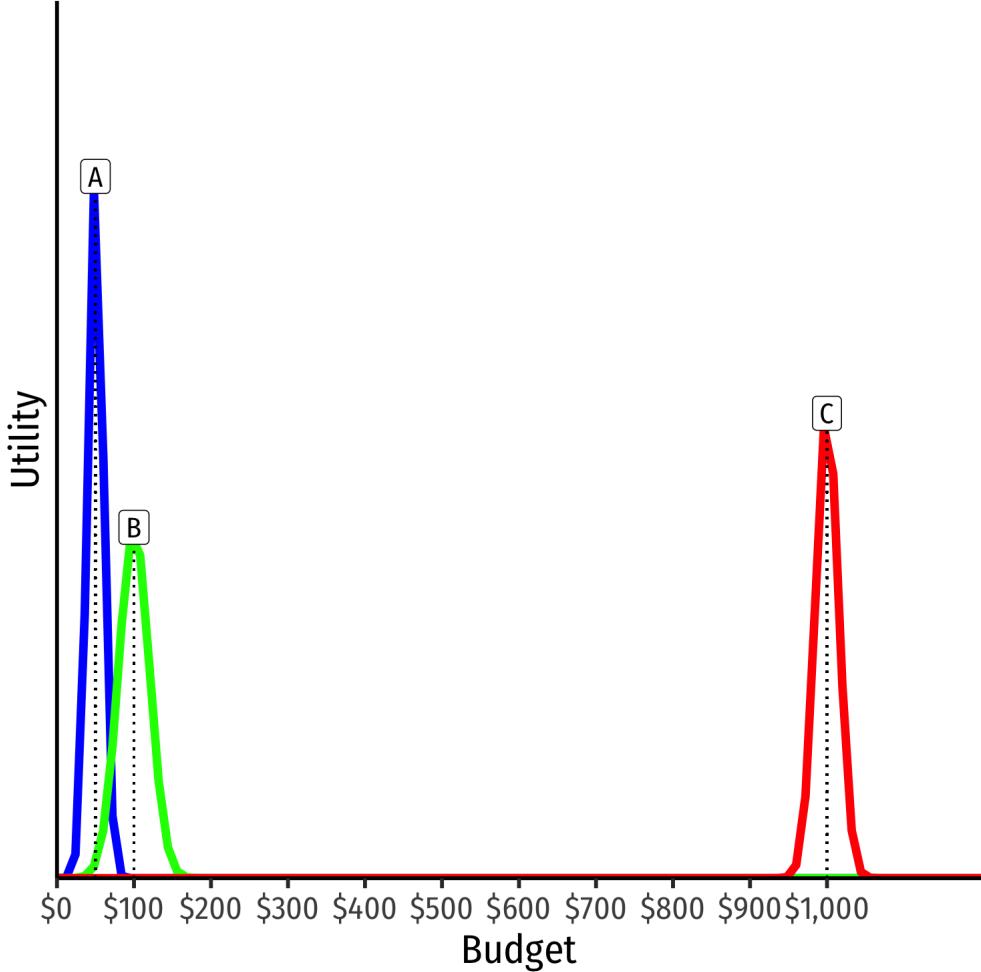
- **B** is the “median voter” who has the median preference
- **Median Voter Theorem (MVT)**: if preferences are single-peaked along a single issue dimension, the median preference will always beat any alternative in a pairwise vote
 - It is a Condorcet winner

The Median is Resistant to Outliers



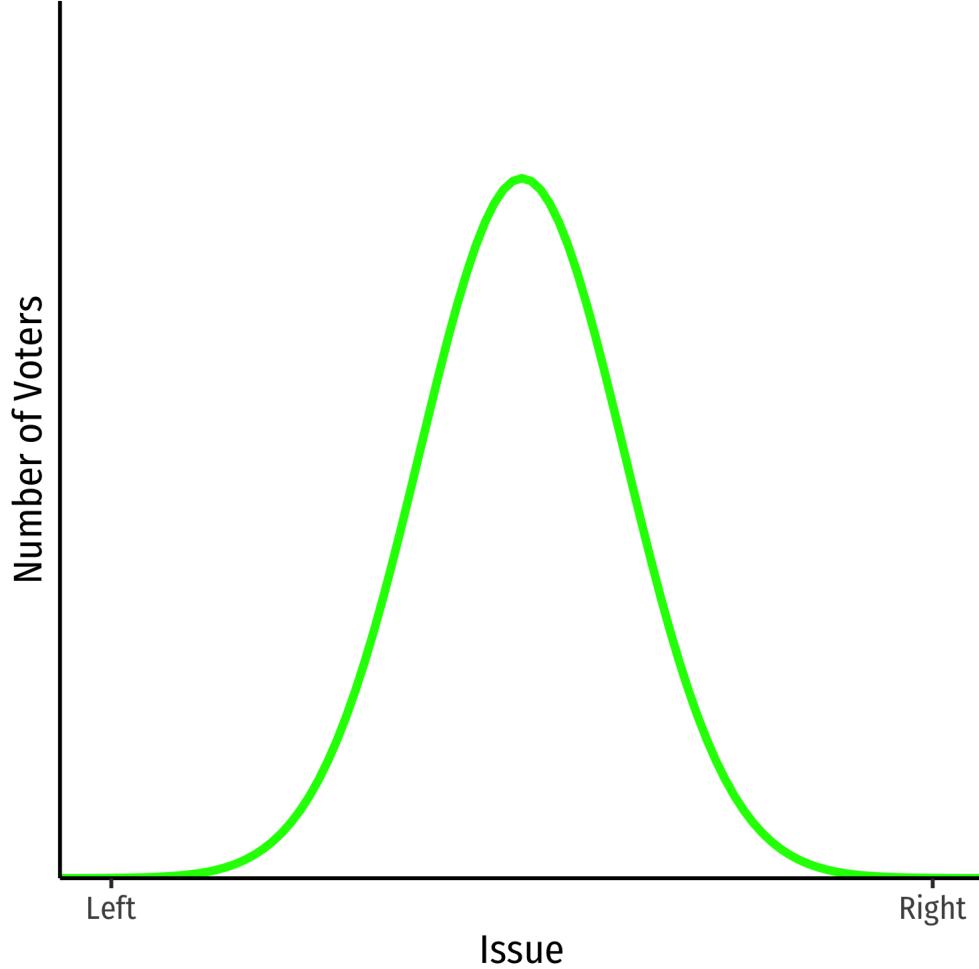
- Suppose **C** goes off the deep end and proposes to spend \$1,000 on the party
- What happens to the outcome?

The Median is Resistant to Outliers



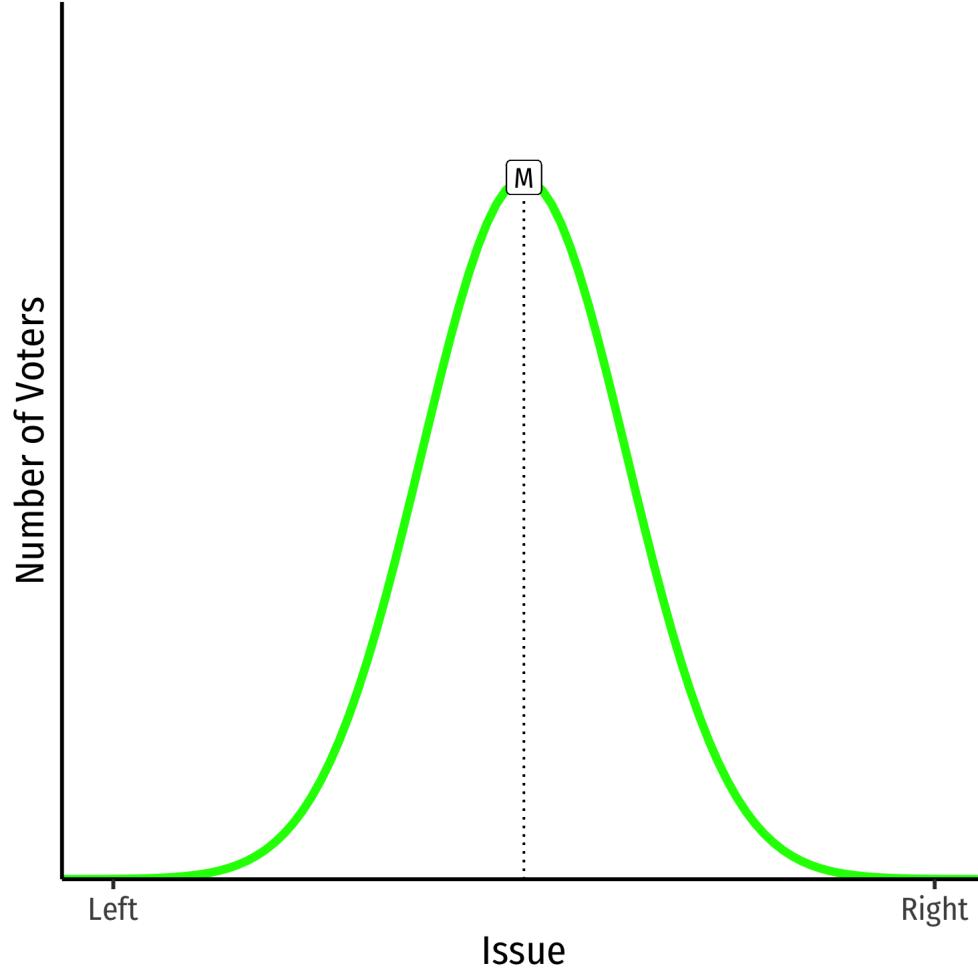
- Suppose **C** goes off the deep end and proposes to spend \$1,000 on the party
- What happens to the outcome? **Nothing!**
- **Politics is resistant to changes at the margin, or at the fringes!**
 - Only if the *median* moves will the outcome change

Mass Elections Example



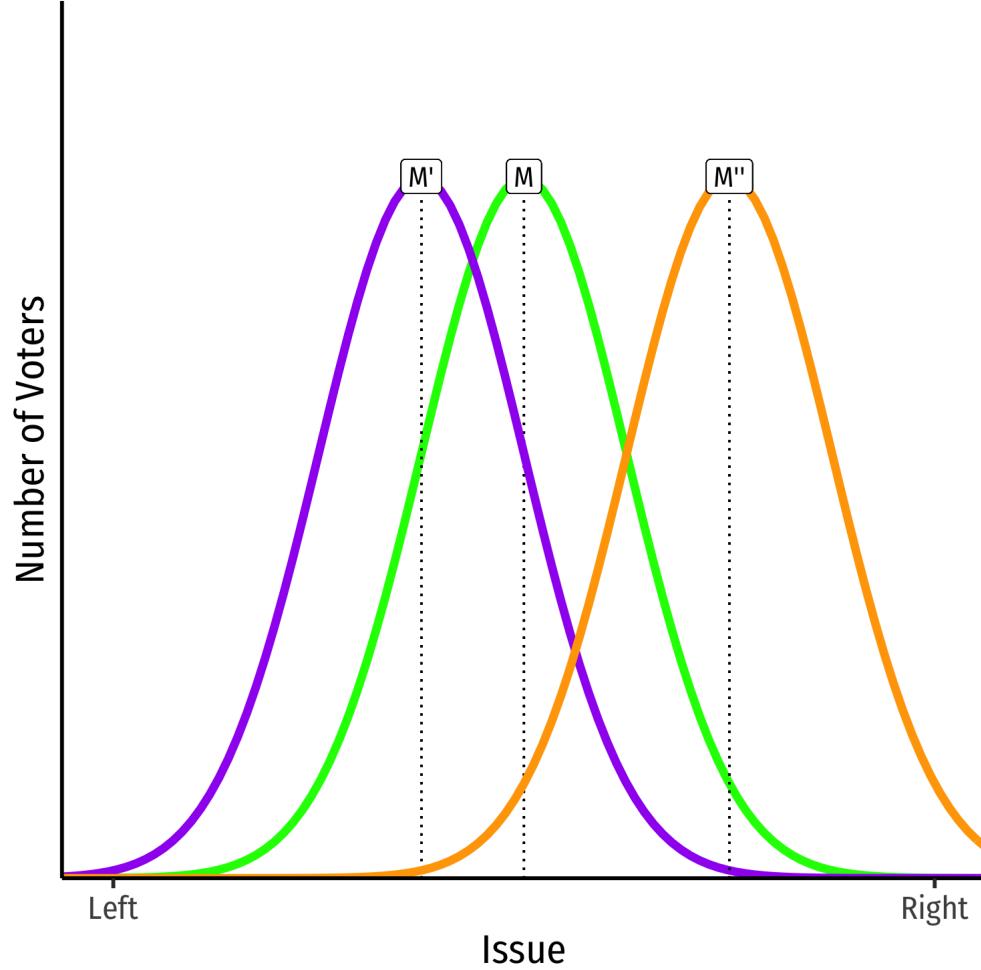
- Now consider a Presidential election
 - many voters, each with own ideal preference
- Aggregated together along a single dimension
 - e.g. "left" vs. "right"; "low tax rates" to "high tax rates", etc.

Mass Elections Example



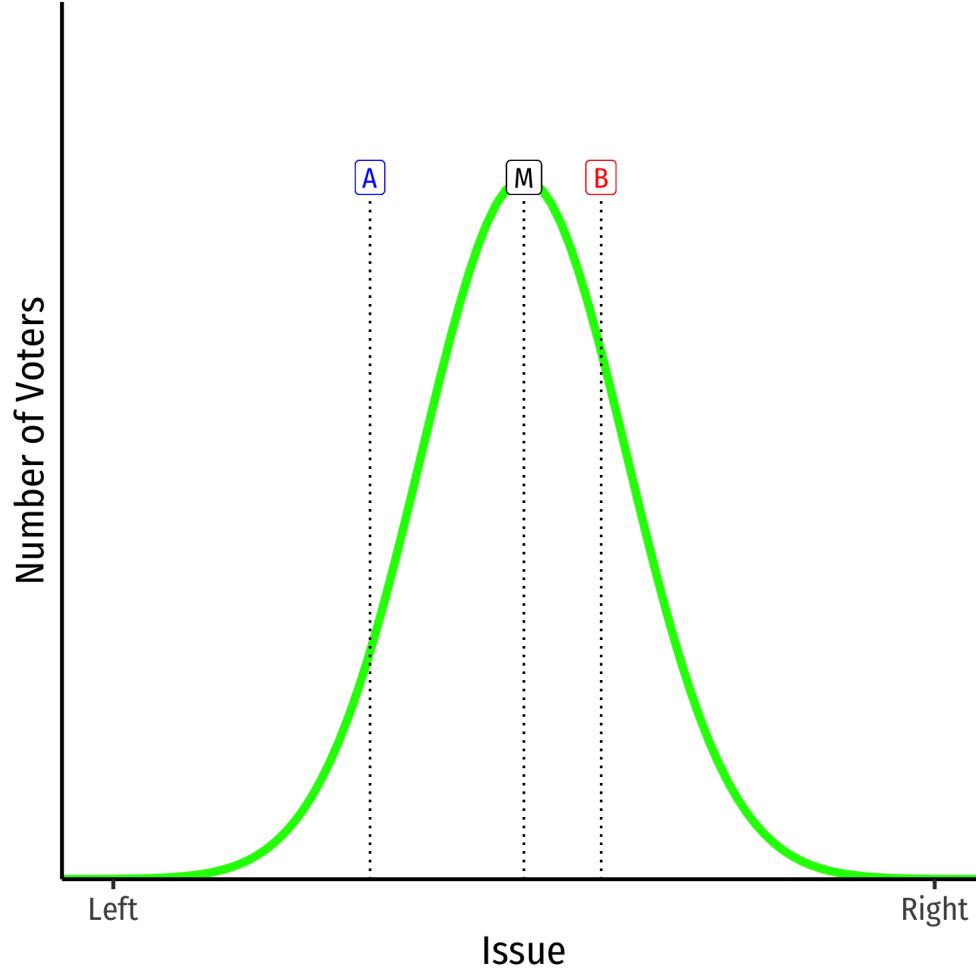
- **Median Voter Theorem** implies the median preference (M) will determine the outcome

Mass Elections Example



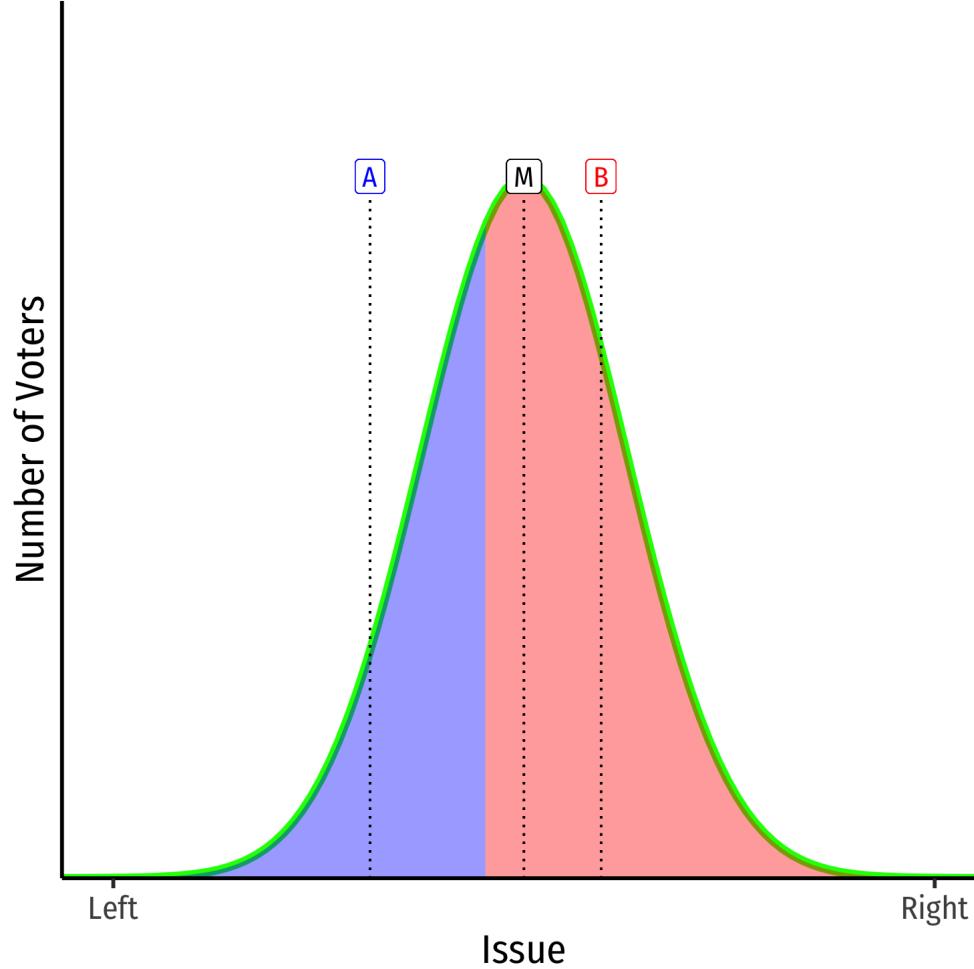
- **Median Voter Theorem** implies the median preference (M) will determine the outcome
- Note the median need not be exactly in the middle, or median can shift

Mass Elections Example



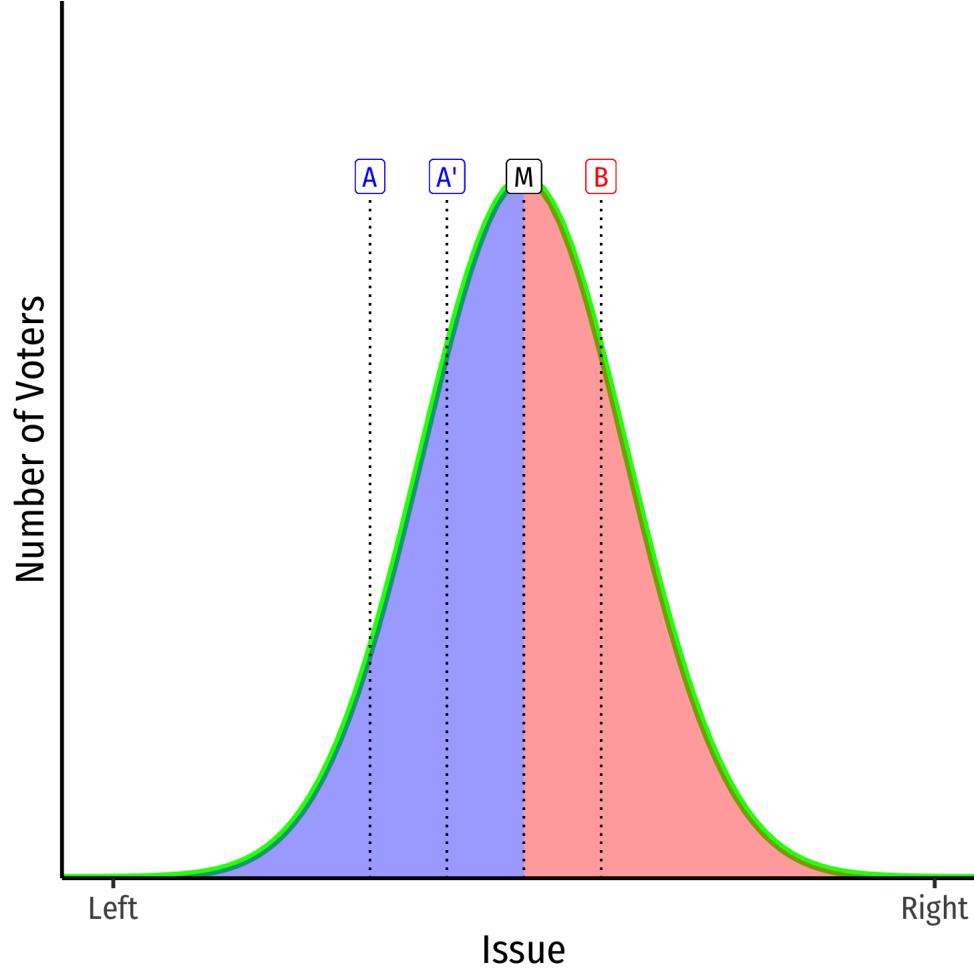
- Imagine two candidates, **A** and **B** in an election, who randomly start somewhere on the spectrum

Mass Elections Example



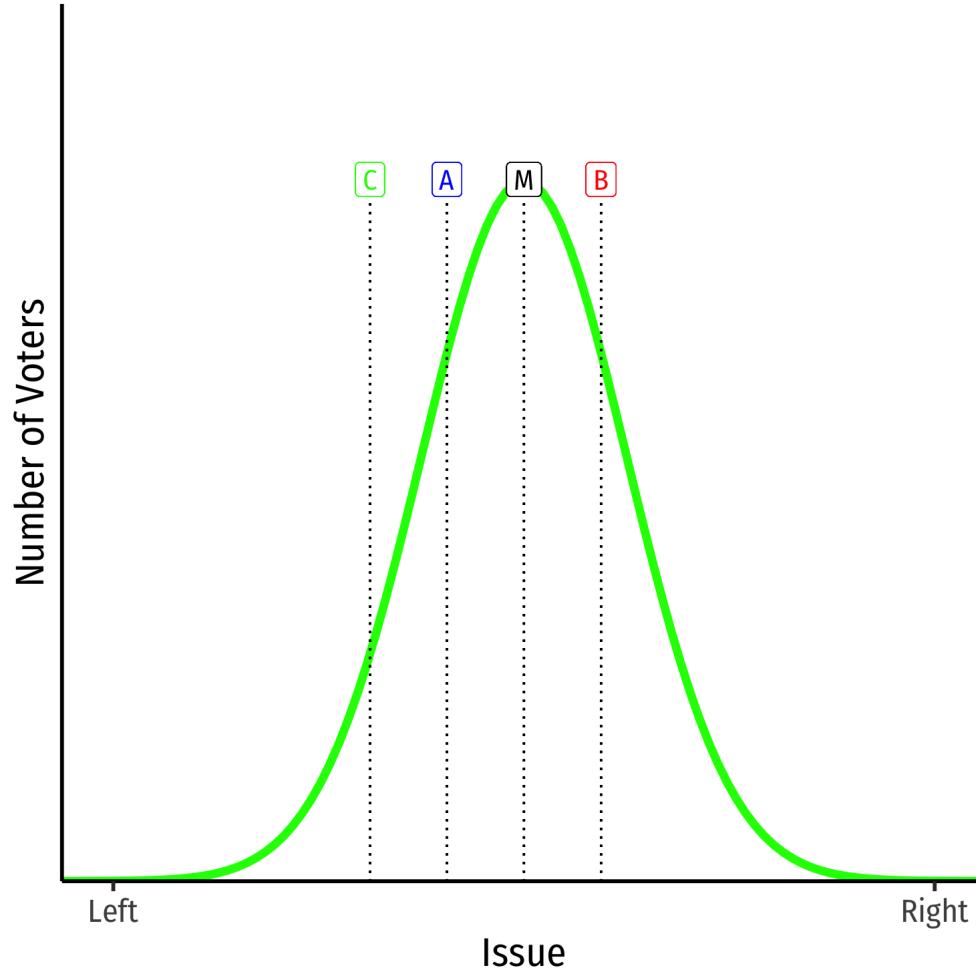
- Imagine two candidates, **A** and **B** in an election, who randomly start somewhere on the spectrum
- Voters vote for the candidates closest to them on spectrum
 - **B** is closer to median, gets more votes
 - **A** is more extreme, gets fewer votes

Mass Elections Example



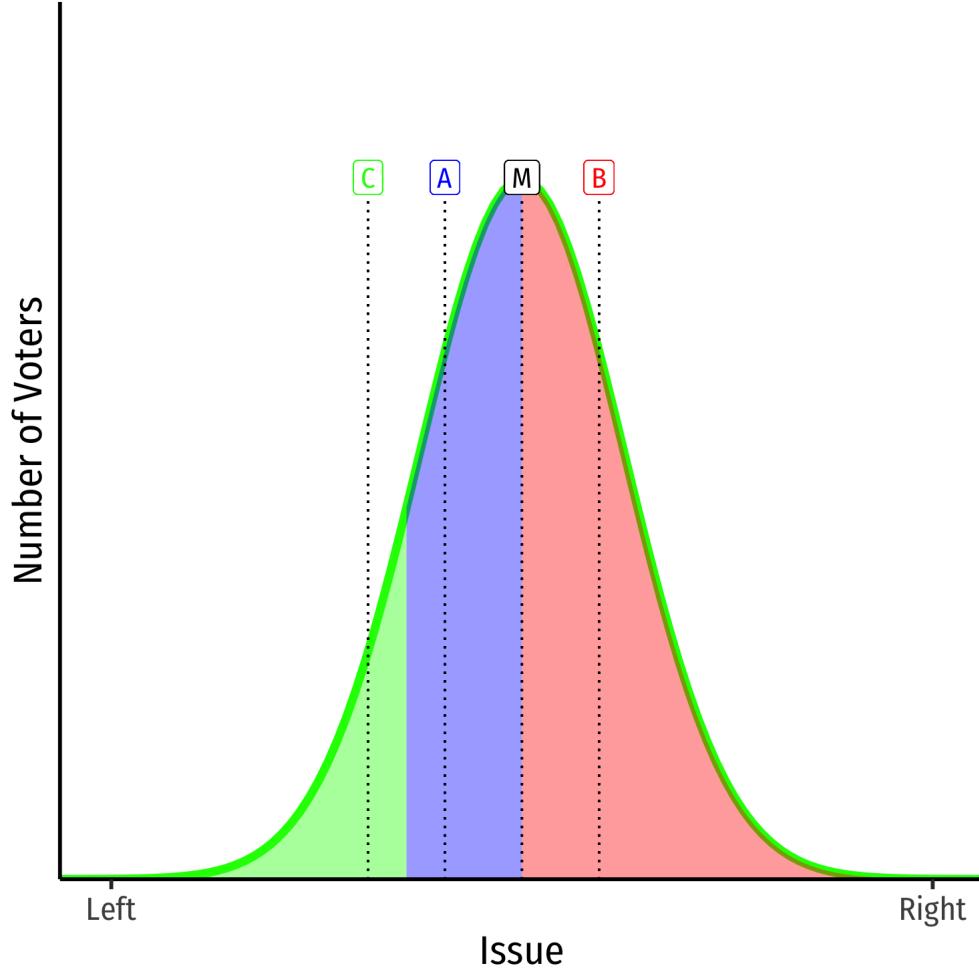
- If **A** moves closer to the median (**A'**), gains more votes (at **B**'s) expense
- The closer to the median (**M**) a candidate gets, the more likely they are to win

Third Parties?



- Imagine a third candidate, C on the spectrum

Third Parties?

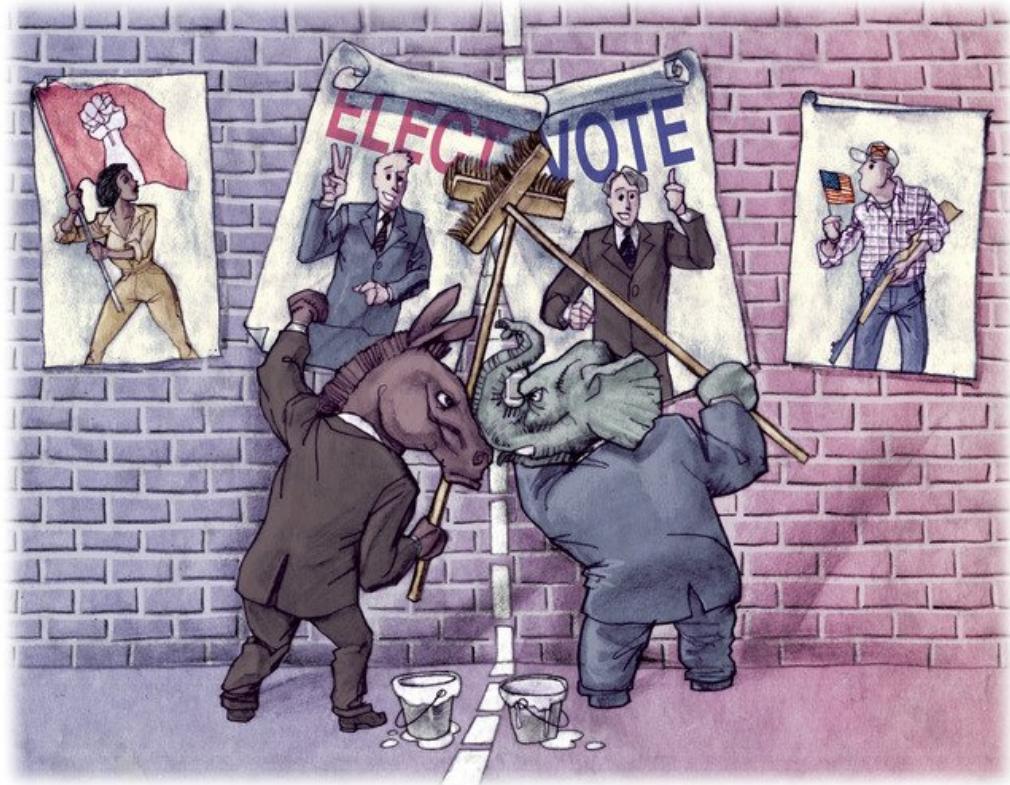


- Imagine a third candidate, **C** on the spectrum
- Again, voters vote for who is closest to them
 - Splits the vote of candidate that is closest to **C** (i.e. **A**)
- Implication: **Third parties cannot win, and may harm party that they are closest to on issues**

Implications of Median Voter Theorem



- Can break voting cycles if preferences on an issue are single-peaked
- **Politics happens at the median**, if the median changes, then outcomes change
- Changes on the fringes have no effect on outcomes
- Candidates that are closer to (further from) the median perform better (worse)
- Third parties split votes and rarely win



More than One Issue Dimension?



- We've assumed only a single issue is voted on at a time, with single-peaked preferences
- What if vote is on a bundle of multiple issues?
- Check out class notes later for spatial competition in multiple dimensions
- Long story short: even with single-peaked preferences in multi-issue space, **democracy is indeterminate**





Arrow's Impossibility Theorem

Arrow's Impossibility Theorem



Kenneth Arrow

1921-2017

Economics Nobel 1972

- Arrow generalized the problem of Condorcet's Paradox (which relies on Condorcet's method of pairwise votes to pick a Condorcet winner)
- Looks at all possible decision/voting rules
- Which voting rules meet some minimal standard of desirable properties?
- Very famous result

Arrow's Impossibility Theorem



Kenneth Arrow

1921-2017

Economics Nobel 1972

- Want a voting system that meets the following criteria:
 1. **Unanimity/Pareto Criterion:** if all individuals prefer $X \succ Y$, then X must be chosen over Y
 2. **Transitivity:** the social choice mechanism is transitive such that if X is chosen over Y , and Y over Z , then X must be chosen over Z
 3. **Unrestricted Domain:** all individuals are able to rank all alternatives
 4. **Independence of Irrelevant Alternatives:** pairwise comparisons between two alternatives are not affected by the rank of *other* alternatives
 5. **Non-dictatorship:** there is no individual that always gets their way regardless of other voters

Arrow's Impossibility Theorem



- **Arrow's Impossibility Theorem:** no social choice mechanism exists that can fulfill all 5 criteria simultaneously
- Alternative specification: the only social choice mechanism that can fulfill conditions 1-4 is **dictatorship**

Kenneth Arrow

1921-2017

Economics Nobel 1972

Arrow's Impossibility Theorem



Kenneth Arrow

1921-2017

Economics Nobel 1972

- Depressing, but an upside: if you don't want a dictatorship, you **must** violate 1 of the 4 desirable properties
- Pick your poison: which property is most worth violating?
 1. Unanimity
 2. Transitivity
 3. Unrestricted domain
 4. Independence of irrelevant alternatives

Independence of Irrelevant Alternatives



- IIA is hardest to understand
- It says, pairwise comparisons are not affected by rank of *other* alternatives
- i.e. How I rank X vs. Y ($X \succ Y$ or $Y \succ X$) is **unaffected by how I rank Z**

IIA Violation Example



Bush vs. Gore¹ 47.866% **49.817%**

Bush vs. Gore vs. Nader² **48.847%** 48.836% 1.635%

¹ [Study](#) estimates that if Nader had not run, 40% of Nader voters would vote for Bush, 60% for Gore

² [Source](#)

IIA Violation Example



Bush vs. Gore¹ 47.866% **49.817%**

Bush vs. Gore vs. Nader² **48.847%** 48.836% 1.635%

- Note: if $\text{Gore} \succ \text{Bush}$ and $\text{Gore} \succ \text{Nader}$, Gore was a Condorcet winner (that the system failed to select)

Constitutional Rules, Again



- *Pure* democracies are unable to withstand disagreement
 - Vote cycling, agenda control, strategic voting
- We do not see them in practice because pure democracies have gone one of two ways:
 1. Revert into a dictatorship
 2. Constitutional republics



Constitutional Rules, Again



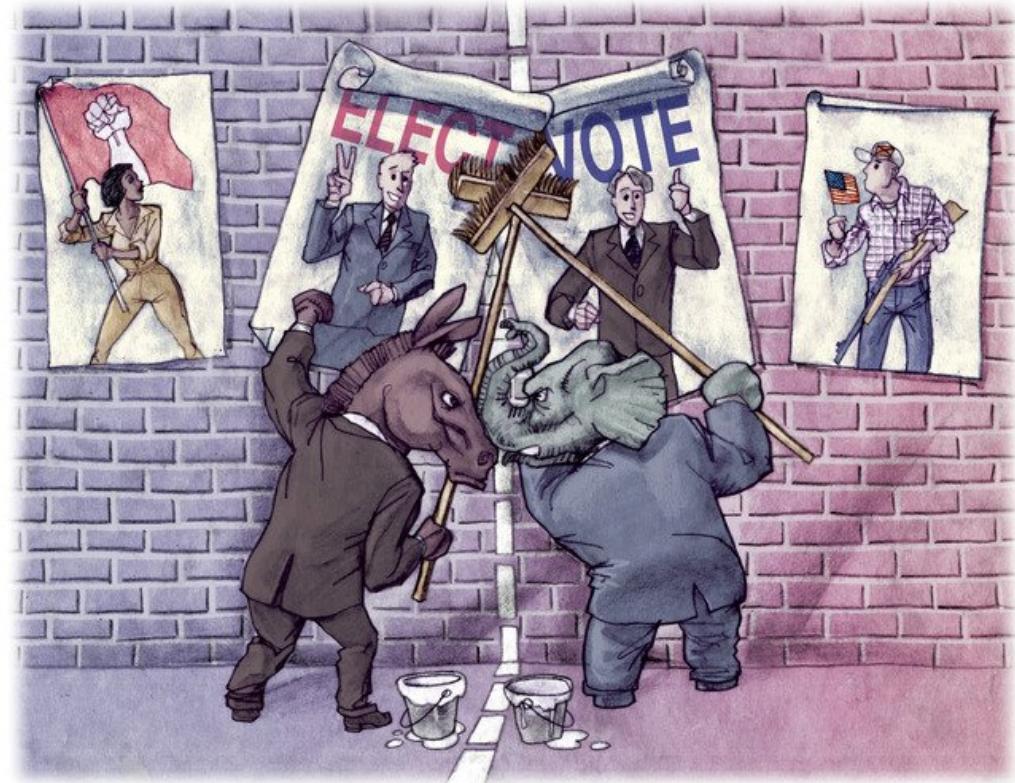
- Mature, institutionalized "democracies", manage these problems by creating institutions:
- restrict domain of what can be voted upon (constitutional rules & rule of law)
- restrict choice to two alternatives
 - a simple majority is a popular rule because you can't get a cycle!



Limiting Choice: Two-Party Systems



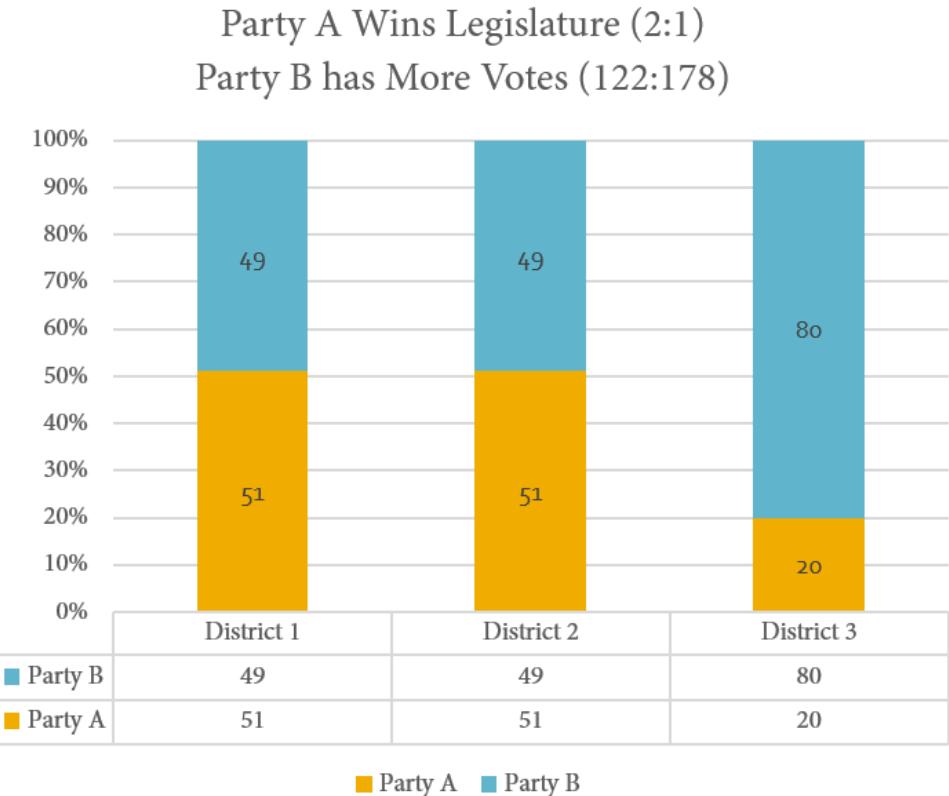
- Cycles and their attendant problems (revolutions, dictatorships, etc) are avoided with just 2 choices
 - One of which can capture a simple majority
- Despite wide variety of electoral systems, most accomplish exactly this



Elections and Districts



- Election often involves (1) aggregating individual votes in geographic units (**districts**) and then (2) taking the majority vote of those districts
- Party winning most seats not necessarily the party that wins the most votes
- **Example:** in 2012, Democrats in the U.S. House of Representatives earned 50.59% of the vote but only attained 46.21% of the seats



Elections and Districts



Presidential/Congressional



Parliamentary

Presidential System

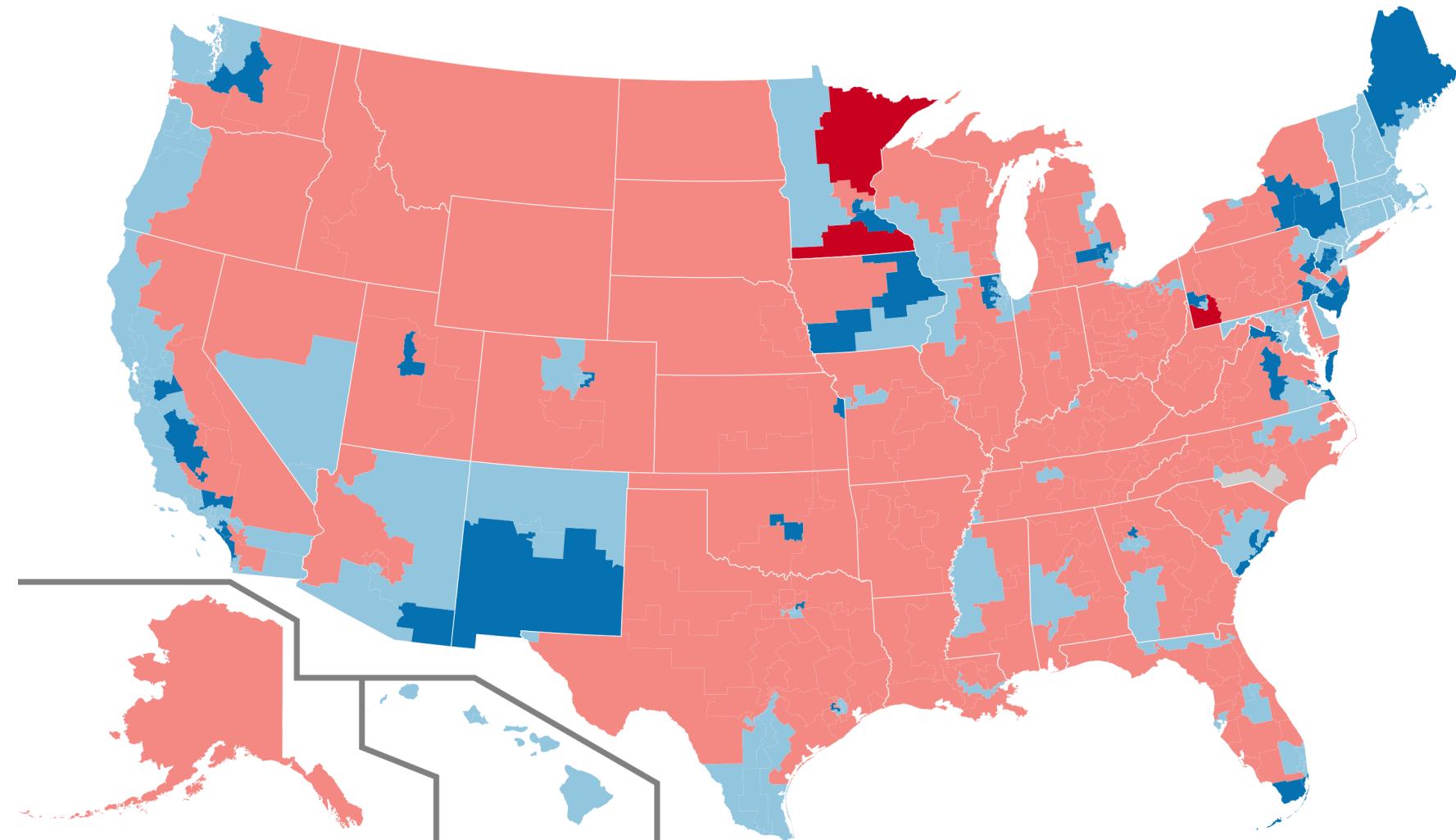


- **Single-member districts:** each district elects a single member
- **"First-Past-The-Post" (FPTP)** aka **plurality** voting: candidate that receives the most votes wins
 - even if not a majority! (51%)

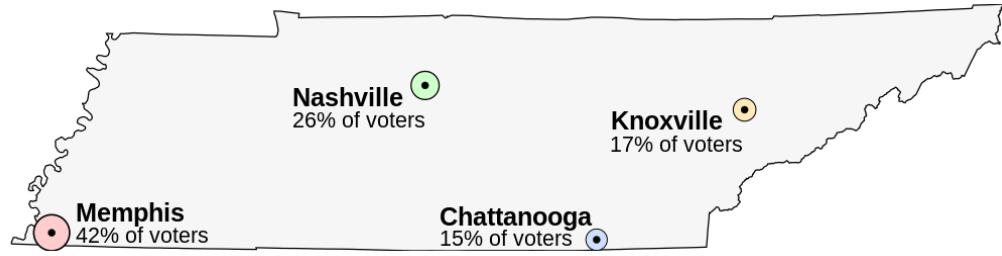


Presidential/Congressional

116th U.S. Congress



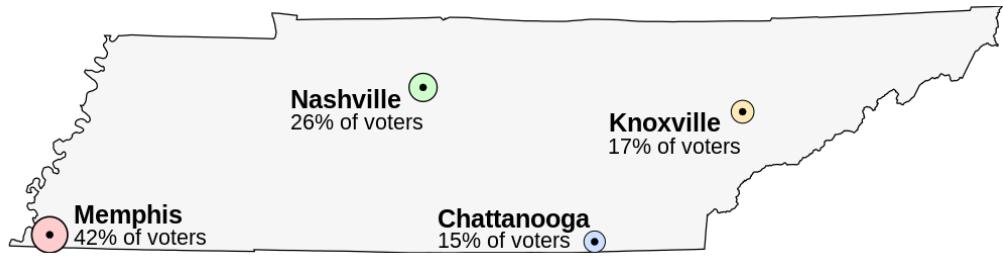
Example of Plurality Voting



- Imagine an election of where to move Tennessee's capital
- Voter preferences in table

| Rank | 42% of voters | 26% of voters | 15% of voters | 17% of voters |
|------|---------------|---------------|---------------|---------------|
| 1 | Memphis | Nashville | Chattanooga | Knoxville |
| 2 | Nashville | Chattanooga | Knoxville | Chattanooga |
| 3 | Chattanooga | Knoxville | Nashville | Nashville |
| 4 | Knoxville | Memphis | Memphis | Memphis |

Example of Plurality Voting



- **Memphis** wins, with 42% of the vote
 - Even though **58% of voters preferred Memphis the least!**

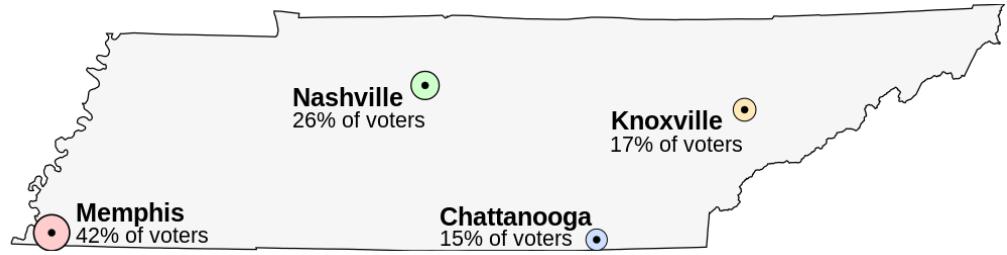
| Rank | 42% of voters | 26% of voters | 15% of voters | 17% of voters |
|------|----------------|------------------|--------------------|------------------|
| 1 | Memphis | Nashville | Chattanooga | Knoxville |
| 2 | Nashville | Chattanooga | Knoxville | Chattanooga |
| 3 | Chattanooga | Knoxville | Nashville | Nashville |
| 4 | Knoxville | Memphis | Memphis | Memphis |

Limiting Choice: Run-off Voting



- Some Presidential systems have **run-off voting**: top 2 candidates in first round compete as the only choices in the second round

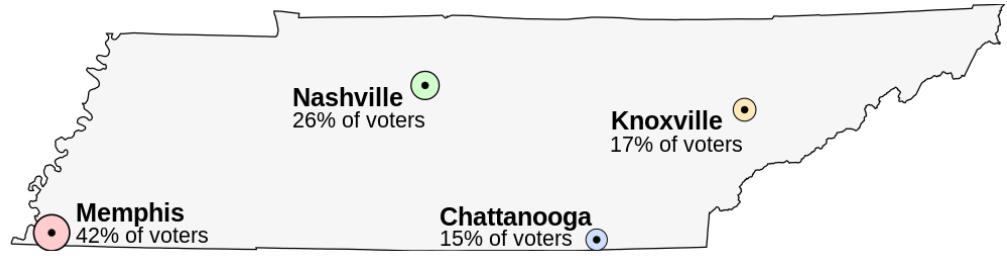
Run Off Voting Example



- **Memphis (42%) and Nashville (26%) win first round**
- Second round:

| Rank | 42% of voters | 26% of voters | 15% of voters | 17% of Memphis: 42% voters Nashville: 58% |
|------|---------------|---------------|---------------|---|
| 1 | Memphis | Nashville | Chattanooga | Knoxville • Nashville wins |
| 2 | Nashville | Chattanooga | Knoxville | Chattanooga |
| 3 | Chattanooga | Knoxville | Nashville | Nashville |
| 4 | Knoxville | Memphis | Memphis | Memphis |

Run Off Voting Example



- **Memphis (42%) and Nashville (26%) win first round**
- Second round:

| Rank | 42% of voters | 26% of voters | 15% of voters | 17% of Memphis: 42% voters Nashville: 58% |
|------|---------------|---------------|---------------|---|
| 1 | Memphis | Nashville | Chattanooga | Knoxville • Nashville wins |
| 2 | Nashville | Chattanooga | Knoxville | Chattanooga |
| 3 | Chattanooga | Knoxville | Nashville | Nashville |
| 4 | Knoxville | Memphis | Memphis | Memphis |

Run Off Voting Example II



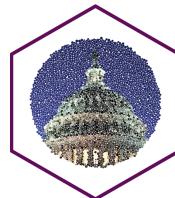
Limiting Choice in Presidential Systems: Duverger's Law



- French political scientist observed empirical regularity in Presidential system elections:
- **Duverger's Law:** in a first-past-the-post voting system, there will tend to be 2 effective candidates (parties)
 - FPTP marginalizes smaller parties
 - Median Voter Theorem \implies third parties split votes



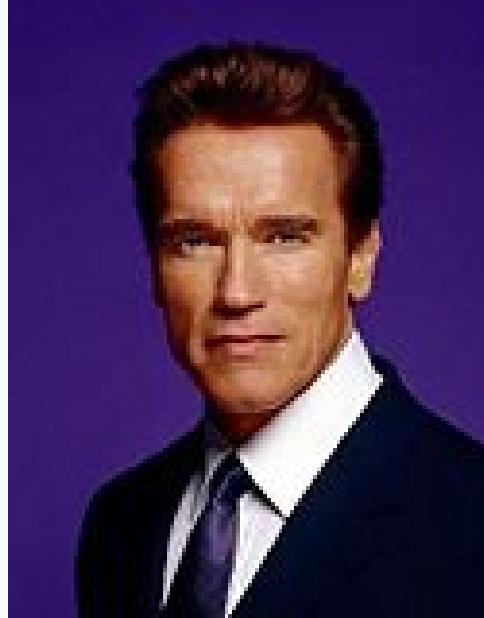
Duverger's Law Example



- 2003 California Gubernatorial Election ([Wikipedia](#))
- Governor Gray Davis recalled from office, a non-partisan special election with... **135 candidates**
- Newspapers: What a catastrophe! No mandate!

| Statewide Special Election Orange County, California October 07, 2003 | | OFFICIAL BALLOT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|-----------------|---|--|--|--|--|--|--|---|--|--|---|---|--|--|--|--|---|---|--|--|--|--|---|--|---|---|--|--|--|---|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|---|--|---|--|---|--|--|--|---|--|---|--|--|--|---|--|--|--|---|--|--|--|---|--|--|--|---|--|--|
| <p>Instruction Note: HOW TO VOTE: To vote, fill in and BLACKEN completely the rectangle to the left of any candidate or to the left of the word "YES" or "NO". Vote for only ONE of the 135 candidates, OR enter a write-in candidate in the space provided. Use only the special marking device provided. (Absentee voters should use a dark pen or a #2 pencil.)</p> <p>Shall GRAY DAVIS be recalled (removed) from the office of Governor?</p> <p><input type="checkbox"/> YES</p> <p><input type="checkbox"/> NO</p> <p>Candidates to succeed GRAY DAVIS as Governor if he is recalled:</p> <p>Vote for One</p> <table border="0"> <tr><td><input type="checkbox"/> B.E. SMITH Independent - Lecturer</td><td><input type="checkbox"/> STEPHEN L. KNAPP Republican - Engineer</td></tr> <tr><td><input type="checkbox"/> DAVID RONALD SAMS Republican - Businessman/Producer/Writer</td><td><input type="checkbox"/> KELLY P. 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| <input type="checkbox"/> DAVID RONALD SAMS Republican - Businessman/Producer/Writer | <input type="checkbox"/> KELLY P. KIMBALL Democratic - Business Executive | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> JAMIE ROSEMARY SAFFORD Republican - Business Owner | <input type="checkbox"/> D.E. KESSINGER Democratic - Paralegal/Property Manager | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <input type="checkbox"/> ARNOLD SCHWARZENEGGER Republican - Actor/Businessman | <input type="checkbox"/> TREK THUNDER KELLY Independent - Business Executive/Artist | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> GEORGE B. SCHWARTZMAN Independent - Businessman | <input type="checkbox"/> JERRY KUNZMAN Independent - Chief Executive Officer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> MIKE SCHMIER Democratic - Attorney | <input type="checkbox"/> PETER V. UEBERROTH Republican - Businessman/Olympics Advisor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <input type="checkbox"/> BILL SIMON Republican - Businessman | <input type="checkbox"/> DARIN PRICE Natural Law - University Chemistry Instructor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> RICHARD J. SIMMONS Independent - Attorney/Businessperson | <input type="checkbox"/> GREGORY J. PAWLIK Republican - Realtor/Businessman | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> CHRISTOPHER SPROUL Democratic - Environmental Attorney | <input type="checkbox"/> LEONARD PADILLA Independent - Law School President | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> RANDALL D. SPRAGUE Republican - Discrimination Complaint Investigator | <input type="checkbox"/> RONALD JASON PALMIERI Democratic - Gay Rights Attorney | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> TIM SYLVESTER Democratic - Entrepreneur | <input type="checkbox"/> CHARLES "CHUCK" PINEDA JR. Democratic - State Hearing Officer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <input type="checkbox"/> HEATHER PETERS Republican - Mediator | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <input type="checkbox"/> ROBERT "BUTCH" DOLE Republican - Small Business Owner | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <input type="checkbox"/> SCOTT DAVIS Independent - Business Owner | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <input type="checkbox"/> RONALD J. FRIEDMAN Independent - Physician | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <input type="checkbox"/> GENE FORTE Republican - Executive Recruiter/Entrepreneur | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <input type="checkbox"/> DIANA FOSS Democratic - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <input type="checkbox"/> LORRAINE (ABNER ZURD) FONTANES Democratic - Film Maker | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <input type="checkbox"/> WARREN FARRELL Democratic - Fathers' Issues Author | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <input type="checkbox"/> DAN FEINSTEIN Democratic - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <input type="checkbox"/> LARRY FLYNT Democratic - Publisher | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <input type="checkbox"/> CALVIN Y. LOUIE Democratic - CPA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <input type="checkbox"/> DICK LANE Democratic - Educator | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <input type="checkbox"/> TODD RICHARD LEWIS Independent - Businessman | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <input type="checkbox"/> GARY LEONARD Democratic - Photojournalist/Author | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <input type="checkbox"/> DAVID LAUGHING HORSE Democratic - Tribal Chairman | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <input type="checkbox"/> ROBINSON Democratic - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <input type="checkbox"/> NED ROSCOE Libertarian - Cigarette Retailer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <input type="checkbox"/> DANIEL C. "DANNY" RAMIREZ Democratic - Businessman/Entrepreneur/Father | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <input type="checkbox"/> CHRISTOPHER RANKEN Democratic - Planning Commissioner | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <input type="checkbox"/> PAUL NAVARRO Democratic - Businessman/Entrepreneur/Writer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <input type="checkbox"/> ANGELYNE Independent - Entertainer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <input type="checkbox"/> DOUGLAS ANDERSON Republican - Mortgage Broker | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <input type="checkbox"/> IRIS ADAM Natural Law - Business Analyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <input type="checkbox"/> BROOKE ADAMS Independent - Business Executive | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <input type="checkbox"/> ALEX ST. JAMES Republican - Public Policy Strategist | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <input type="checkbox"/> JIM HOFFMANN Republican - Teacher | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <input type="checkbox"/> KEN HAMIDI Libertarian - State Tax Officer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <input type="checkbox"/> SARA ANN HANLON Independent - Businesswoman | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <input type="checkbox"/> IVAN A. HALL Green - Custom Denture Manufacturer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>MEASURES SUBMITTED TO THE VOTERS</p> <p>STATE</p> <p>Proposition 53</p> <p>FUNDS DEDICATED FOR STATE AND LOCAL INFRASTRUCTURE. LEGISLATIVE CONSTITUTIONAL AMENDMENT.</p> <p>Generally dedicates up to 3% of General Fund revenues annually to fund state and local (excluding school and community college) infrastructure projects. Fiscal Impact: Dedication of General Fund revenues for state and local infrastructure. Potential transfers of \$850 million in 2006-07, increasing to several billions of dollars in future years, under specified conditions.</p> <p><input type="checkbox"/> YES</p> <p><input type="checkbox"/> NO</p> <p>Proposition 54</p> <p>CLASSIFICATION BY RACE, ETHNICITY, COLOR, OR NATIONAL ORIGIN. INITIATIVE CONSTITUTIONAL AMENDMENT.</p> <p>Prohibits state and local governments from classifying any person by race, ethnicity, color, or national origin. Various exemptions apply. Fiscal Impact: The measure would not result in a significant fiscal impact on state and local governments.</p> <p><input type="checkbox"/> YES</p> <p><input type="checkbox"/> NO</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SAMPLE BALLOT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Duverger's Law Example



| | | |
|---------------------|----------------------------------|------------------------|
| Candidate | Arnold Schwarzenegger | Cruz Bustamante |
| Party | Republican | Democratic |
| Popular vote | 4,206,284 | 2,724,874 |
| Percentage | 48.6% | 31.5% |

Limiting Choice: Parliamentary System



- **Multiple-member districts:** each district elects multiple members
- **"Proportional Voting"** if a political party gets x percent of the national vote, they get x percent of the seats in the legislature



Parliamentary

Limiting Choice: Parliamentary System



- Voters in each district often vote for a **party list** - if party is able to earn x seats, the top x members in the party get seated
- Party with majority, OR a coalition of parties that have a majority forms "**the government**"
- Remainder forms a coalition as "**the opposition**"



Parliamentary

Limiting Choice: Parliamentary System



Limiting Choice: Parliamentary System



The German parliament

Elected on Sept 24

