How American Politics Ensures Electoral Accountability in Congress¹

Gary King²

Institute for Quantitative Social Science Harvard University

Center for American Political Studies, Harvard University, 11/29/2023

¹ Joint with Danny Ebanks & Jonathan N. Katz (thanks to Aleksandra Conevska) ² GaryKing.org

The Plan

Model Validation: Out-of-sample tests

Prob(Incumbent Defeat): High, No Change

Intermediate Variables: Massive Change

How No Change Leads to Massive Change

Appendix

• Controversial Indicators of Democracy (important otherwise)

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 - Different combos of {Polarization, Partisanship, IncAd, Marginals, Gerrymandering bias} → the same Prob(Defeat)

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 Gelman-King's Judgelt
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- Computation: extensive but easy; ElectIt Software

The Plan

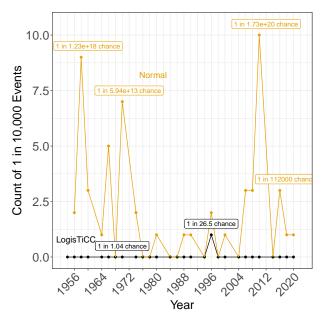
Model Validation: Out-of-sample tests

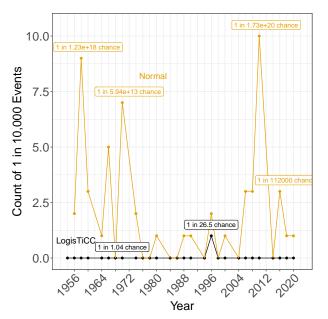
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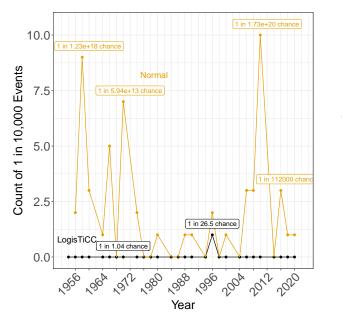
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Appendix



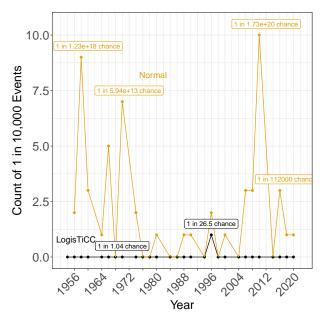


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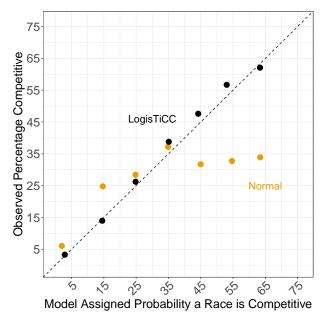
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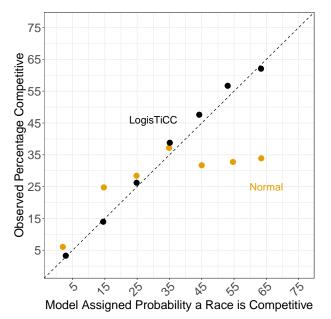
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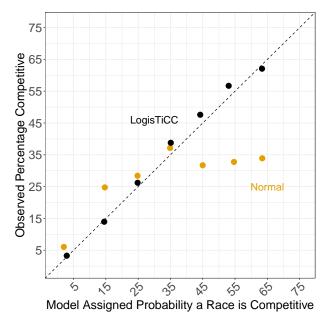


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LogisTiCC: Near perfect

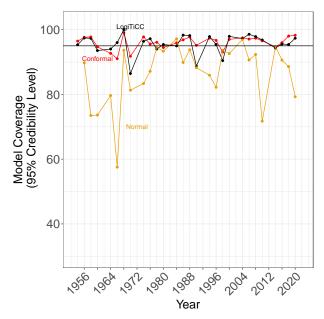
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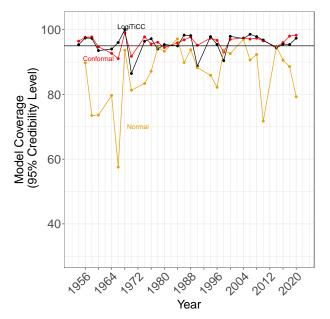
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Normal: Fails for the most important elections

95% CI Coverage:

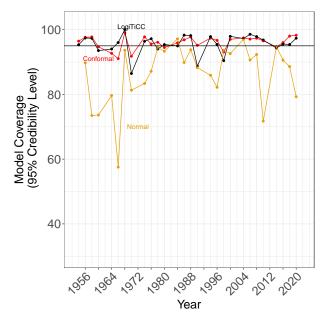


Model Validation: Out-of-sample tests



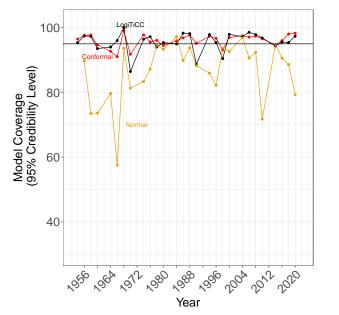
LogisTiCC: ~ correct

Model Validation: Out-of-sample tests



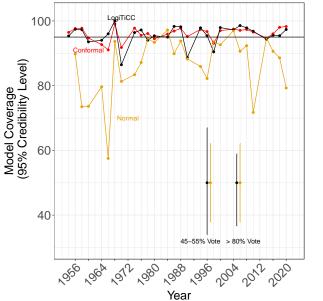
LogisTiCC: ~ correct

Normal: Way over confident



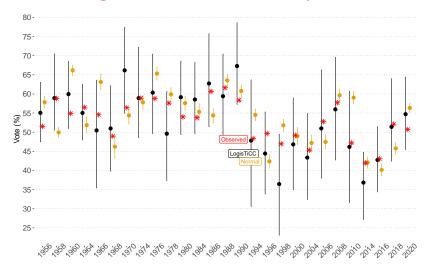
LogisTiCC: ~ correct Normal: Way over confident

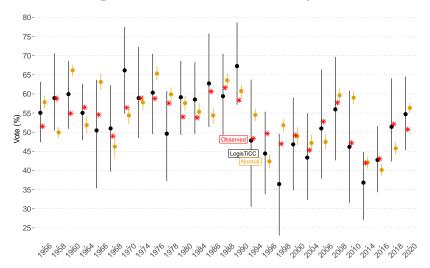
Nonparametric: ~ correct



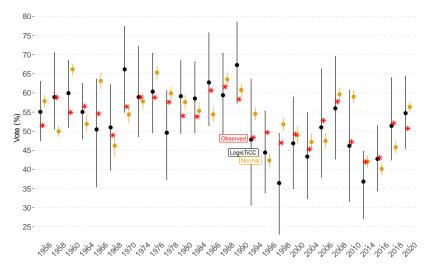
LogisTiCC: \sim correct Normal: Way over confident Nonparametric: \sim correct Average CI Width

95% CI Coverage:

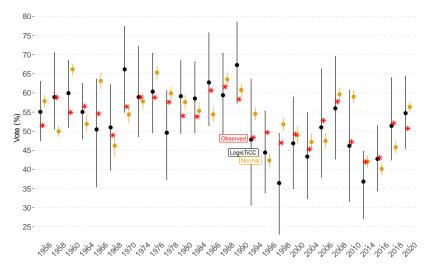




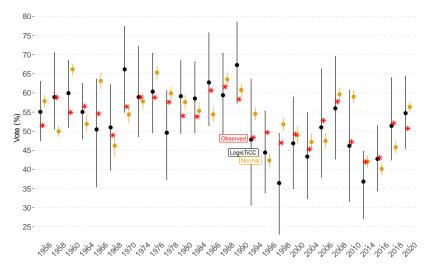
95% CI captures



95% CI captures (Theory: 26/27):



95% CI captures (Theory: 26/27): Normal 7/27,



95% CI captures (Theory: 26/27): Normal 7/27, LogisTiCC 27/27

The Plan

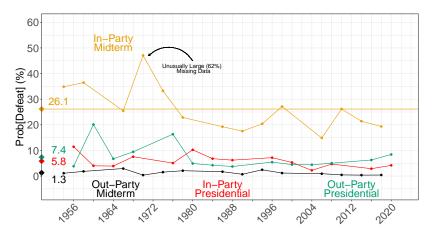
Model Validation: Out-of-sample tests

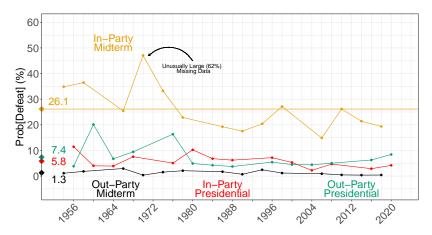
Prob(Incumbent Defeat): High, No Change

Intermediate Variables: Massive Change

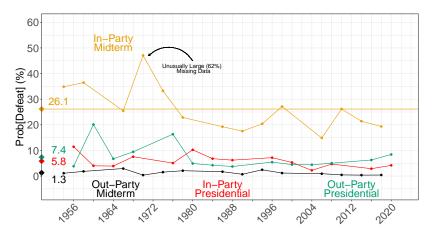
How No Change Leads to Massive Change

Appendix

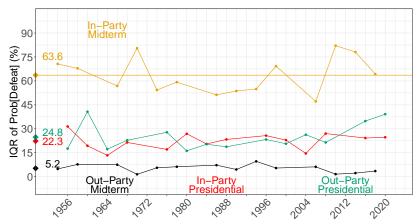


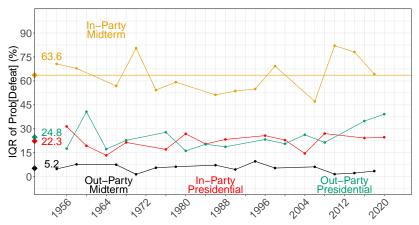


Mean high: 1.3-26.2%; overall: 11%

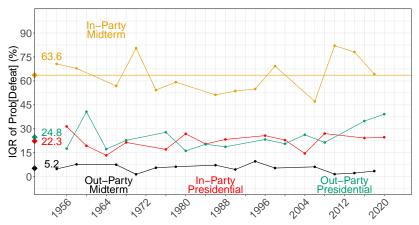


Mean high: 1.3–26.2%; overall: 11% No Trend: Approximately constant over time

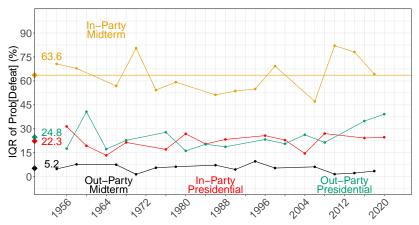




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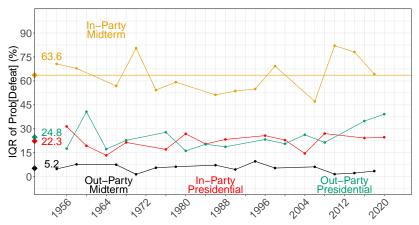


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Mean high: 1.3–26.2%; overall: 11% No Trend: Approximately constant over time Individual job security?

Prob(Incumbent Defeat): High, No Change



Mean high: 1.3–26.2%; overall: 11% No Trend: Approximately constant over time Individual job security? Random terror!

The Plan

Model Validation: Out-of-sample tests

Prob(Incumbent Defeat): High, No Change

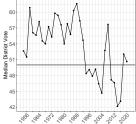
Intermediate Variables: Massive Change

How No Change Leads to Massive Change

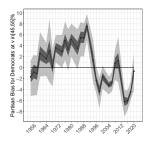
Appendix



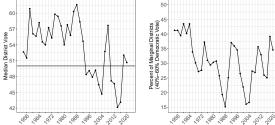
Median District Vote



Median District Vote

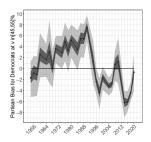


Partisan Bias Intermediate Variables: Massive Change

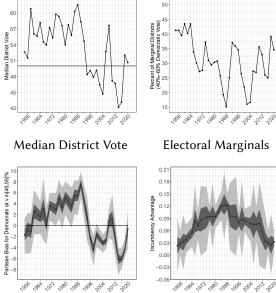


Median District Vote

Electoral Marginals

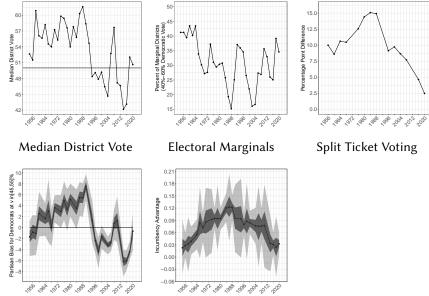


Partisan Bias Intermediate Variables: Massive Change

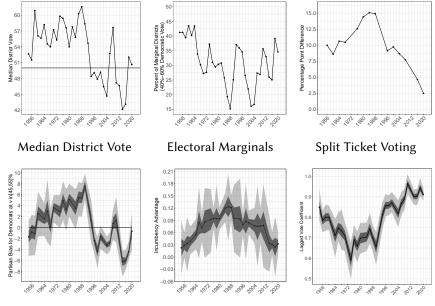


Incumbency Advantage

Partisan Bias Intermediate Variables: Massive Change



Partisan Bias Intermediate Variables: Massive Change Incumbency Advantage



Partisan Bias Intermediate Variables: Massive Change Incumbency Advantage

Lagged Vote 15/20.

The Plan

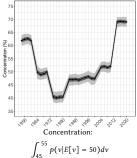
Model Validation: Out-of-sample tests

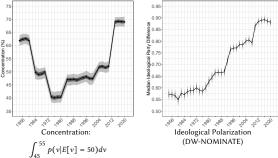
Prob(Incumbent Defeat): High, No Change

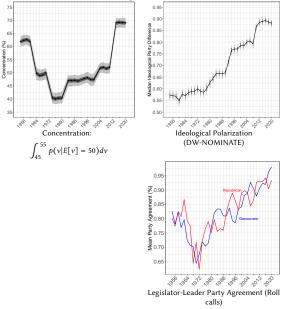
Intermediate Variables: Massive Change

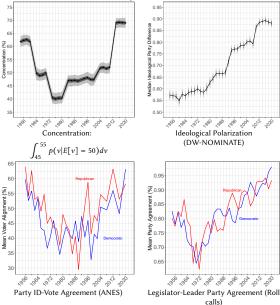
How No Change Leads to Massive Change

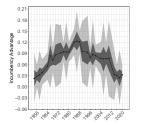
Appendix



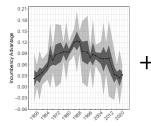




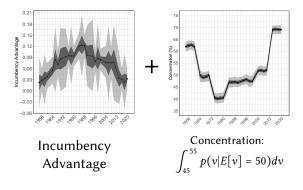


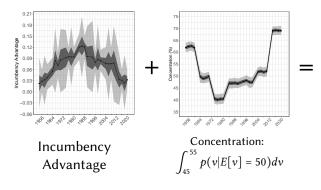


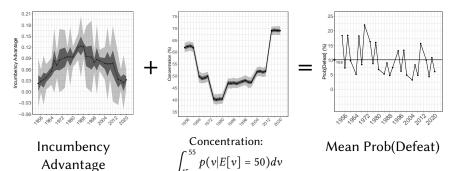
Incumbency Advantage

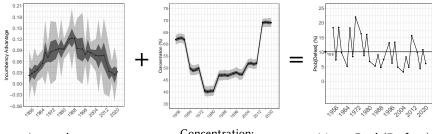


Incumbency Advantage







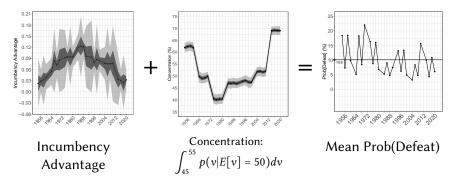


Incumbency Advantage

Concentration: $\int_{45}^{55} p(v|E[v] = 50) dv$

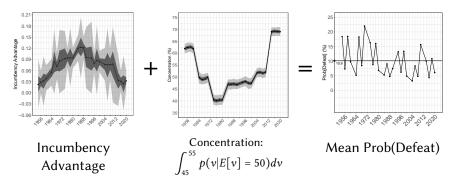
Mean Prob(Defeat)

We find



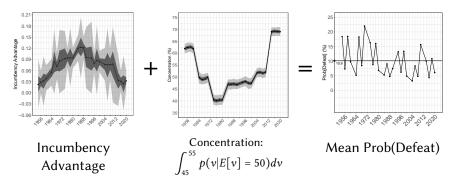
We find

Prob(defeat) high, constant over > 2/3rds century



We find

- Prob(defeat) high, constant over > 2/3rds century
- Different combos of {Polarization, Partisanship, IncAd, Marginals, Gerrymandering bias} → the same Prob(Defeat)



We find

- Prob(defeat) high, constant over > 2/3rds century
- Different combos of {Polarization, Partisanship, IncAd, Marginals, Gerrymandering bias} → the same Prob(Defeat)
- (This part of) American democracy actually seems to work

Papers, slides, software, data

GaryKing.org



How No Change Leads to Massive Change

The Plan

Model Validation: Out-of-sample tests

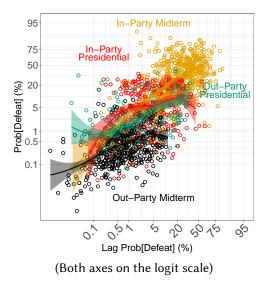
Prob(Incumbent Defeat): High, No Change

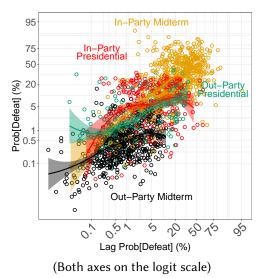
Intermediate Variables: Massive Change

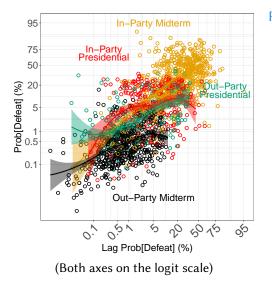
How No Change Leads to Massive Change

Appendix

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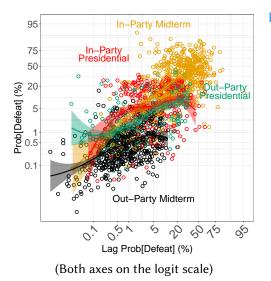




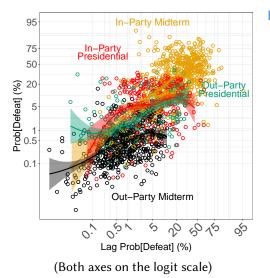


Prob(Defeat) varies:

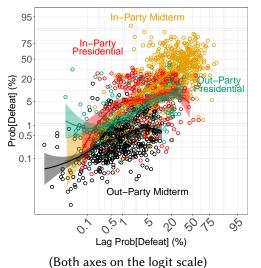
• by type: in/out party; presidential/midterm



- by type: in/out party; presidential/midterm
- by district: few safe



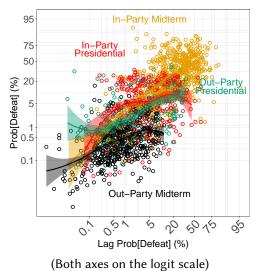
- by type: in/out party; presidential/midterm
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- massively over time



Prob(Defeat) varies:

- by type: in/out party; presidential/midterm
- by district: few safe
- massively over time

Electoral accountability:

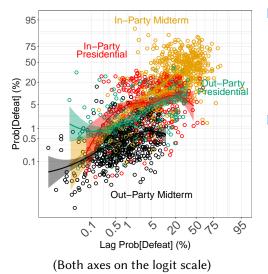


Prob(Defeat) varies:

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- by district: few safe
- massively over time

Electoral accountability:

• High:

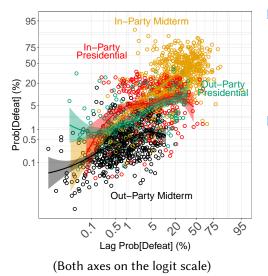


Prob(Defeat) varies:

- by type: in/out party; presidential/midterm
- by district: few safe
- massively over time

Electoral accountability:

• High: 1.3–26% (11% avg.)

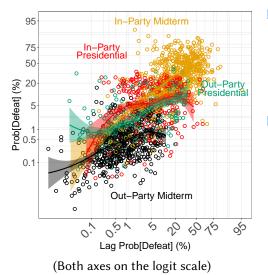


Prob(Defeat) varies:

- by type: in/out party; presidential/midterm
- by district: few safe
- massively over time

Electoral accountability:

- High: 1.3-26% (11% avg.)
- No (systematic) change:

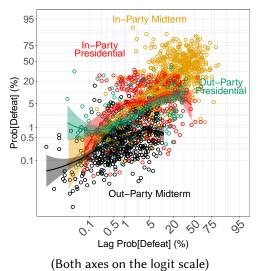


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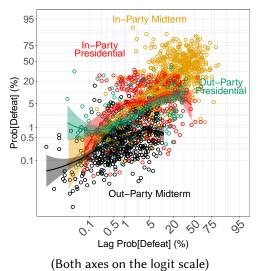
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Electoral accountability:

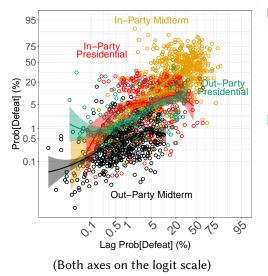
- High: 1.3-26% (11% avg.)
- No (systematic) change: > 2/3rds of a century



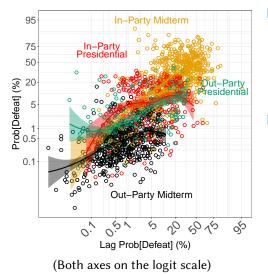
- by type: in/out party; presidential/midterm
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 - High: 1.3–26% (11% avg.)
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 2/3rds of a century
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 - Job Security:



- by type: in/out party; presidential/midterm
- by district: few safe
- massively over time Electoral accountability:
 - High: 1.3-26% (11% avg.)
 - No (systematic) change: > 2/3rds of a century
 - At risk? almost everyone
 - Especially: President's party
 - Job Security: Random terror