

North Carolina Law Review

VOLUME 83

JUNE 2005

Number 5

CONTENTS

UNPACKING THE IDEA OF THE JUDICIAL CENTER	1089
CHARLES EVANS HUGHES: THE CENTER HOLDS	1187
"MEET THE NEW BOSS": THE NEW JUDICIAL CENTER	1205
DRED SCOTT AS A CENTRIST DECISIONMark A. Graber	1229
THE MEDIAN JUSTICE ON THE UNITED STATES SUPREME COURT	1275
THE SUPREME COURT, CONGRESS, AND JUDICIAL REVIEWJeffrey A. Segal & Chad Westerland	1323
GRAND CENTRISM AND THE CENTRIST JUDICIAL PERSONAMLouis D. Bilionis	s 135
RESTORING THE PEERS IN THE "BULWARK": BLAKELY V. WASHINGTON AND THE COURT'S JURY PROJECT	I 138

THE MEDIAN JUSTICE ON THE UNITED STATES SUPREME COURT

ANDREW D. MARTIN, KEVIN M. QUINN, & LEE EPSTEIN**

Black's "Median Voter Theorem" now figures prominently and crucially in a wide array of research on the United States Supreme Court, from studies on the nomination and confirmation of Justices, to investigations into the Court's resolution of disputes, to analyses of its impact on the hierarchy of justice. Nonetheless, and regardless of the substantive focus of the investigation, the question of how to locate the median Justice looms large. Because all extant answers have their share of problems, we set out to develop a more compelling approach—one that relies on methods developed by Martin and Quinn. Via this approach we derive a systematic accounting of the Justice with the highest (posterior) probability of having served as the median for each Term since 1937.

In what follows, we (1) introduce the Martin-Quinn method, (2) explain why it represents an improvement over previous efforts, and (3) offer two contemporary applications—both of which assess emerging pieces of wisdom about the Court: that (a) the median Justice (Sandra Day O'Connor) has moved to the "left" or, at least, has grown more moderate in recent Terms, and (b) President George W. Bush will be able to "remake" the Court.

^{*} Prepared for the North Carolina Law Review's Symposium on Locating the Constitutional Center—Centrist Judges and Mainstream Values: A Multidisciplinary Exploration.

^{**} Andrew D. Martin (http://adm.wustl.edu) is an Associate Professor of Political Science at Washington University in St. Louis; Kevin Quinn (http://www.people.fas. harvard.edu/~kquinn/) is Assistant Professor of Government at Harvard University; Lee Epstein (http://epstein.wustl.edu) is the Edward Mallinckrodt Distinguished University Professor of Political Science and Professor of Law at Washington University in St. Louis. All information necessary to replicate the empirical results in this Article is housed at http://epstein.wustl.edu/research/medianjustice.html. The Martin-Quinn estimates for both Justice ideal points and Court medians in a number of electronic formats are housed at http://adm.wustl.edu/supct.php. For research support, we thank the National Science Foundation, the Washington University School of Law, and the Weidenbaum Center on the Economy, Government, and Public Policy. For useful comments, we thank participants at North Carolina Law Review's Symposium on Locating the Constitutional Center and at a faculty workshop at Washington University School of Law.

Vol.	83
------	----

20051

INTRODUCTION

The "center" of the Court; the Court's "middle"; the "swing" Justice; the "pivotal" Justice; and the most "powerful" Justice.

3. E.g., Neal Devins, Explaining Grutter v. Bollinger, 152 U. PA. L. REV. 347, 349 (2003) (claiming that Grutter v. Bollinger, 539 U.S. 982 (2001), "calls attention to how it is

Legal commentators regularly invoke these terms to characterize the Justice who is crucial to the outcome of a case and, thus, to the establishment of public policy. Social scientists, though, tend to use only one: the "median" Justice, that is, the Justice in the middle of a distribution of Justices, such that (in an ideological distribution, for example) half the Justices are to the right of (more "conservative" than) the median and half are to the left of (more "liberal" than) the median.⁷

that the Supreme Court's identity is typically shaped by the Court's so-called swing justices"); William N. Eskridge, Jr., Some Effects of Identity-Based Social Movements on Constitutional Law in the Twentieth Century, 100 MICH. L. REV. 2062, 2201 (2002) (suggesting that "swing Justices will see themselves and the Court as exposed to fewer risks of shame or political retaliation if a broad array of interests supports a particular result"); Harold Hongju Koh, On American Exceptionalism, 55 STAN. L. REV. 1479, 1514 (2003) ("As in other areas of Supreme Court jurisprudence, two swing justices—Anthony Kennedy and Sandra Day O'Connor—have not yet firmly committed themselves to one side or another of the debate.").

4. E.g., Tracey E. George, Developing a Positive Theory of Decisionmaking on U.S. Courts of Appeals, 58 Ohio St. L.J. 1635, 1663 (1998) (writing that "Justice Sandra Day O'Connor has also been considered a pivotal Justice"); Michael J. Gerhardt, The Constitution Outside the Courts, 51 DRAKE L. REV. 775, 787 (2003) ("It is credible to think that one pivotal Justice, Owen Roberts, was convinced to shift his position on economic due process because of the signals sent by Roosevelt's landslide reelection based in part on his campaign against the Court."); Michael J. Klarman, Majoritarian Judicial Review: The Entrenchment Problem, 85 GEO. L.J. 491, 548-49 (1997) ("When these pivotal Justices [O'Connor and Kennedy] are in their liberal mode, abortion restrictions, school prayer, restrictions on gay rights, exclusion of women from VMI, and limitations on the right to die fall victim to the Court's constitutional axe.").

5. See, e.g., Morrison, supra note 1, at 1475 (claiming that "Justice Powell was ... probably more in the center of the Court on some issues than it is likely that Nixon expected"); Suzanna Sherry, RFRA-Vote Gambling, 14 CONST. COMMENT. 27, 29 (1997) (taking note of a "recent game theoretic analysis of Supreme Court voting behavior over the past two terms [showing] that Justice Kennedy is the most powerful Justice").

6. This is increasingly so in the law literature as well. See, e.g., Richard L. Revesz, Congressional Influence on Judicial Behavior?, 76 N.Y.U. L. REV. 1100, 1141 (2001) (stating that in "the last quarter century, the shift in the median Justice has been from Justice Powell or Justice Stewart to Justice Kennedy or Justice O'Connor"); Maxwell L. Stearns, The Condorcet Jury Theorem and Judicial Decisionmaking: A Reply to Saul Levmore, 3 THEORETICAL INQUIRY L. 125, 141 (2002) (noting that "with the narrowestgrounds rule in place, the median Justice can secure the holding without regard for any strategic accommodation and thus he or she lacks an incentive to move to the right or left of his or her preferred position"); Mark Tushnet, Alarmism Versus Moderation in Responding to the Rehnquist Court, 78 IND. L.J. 47, 63 n.71 (2003) (noting that "[u]nder some circumstances, the median Justice might become significantly closer to one of the ideological poles"); L.A. Powe, Jr., The Not-So-Brave New Constitutional Order, 117 HARV. L. REV. 647, 680 (2003) (reviewing MARK TUSHNET, THE NEW CONSITUTIONAL ORDER (2003)) (asserting that "[a]fter 1962, Brennan was the Warren Court's median Justice; the Rehnquist Court's is either O'Connor or Kennedy. When the median Justice is Rehnquist or Scalia, then talk of revolution will be appropriate.").

7. For examples of the use of the median Justice in contemporary studies of the Court, see *supra* note 6 and *infra* notes 11-13, 15; see also Paul Edelman & Jim Chen, *The*

^{1.} See, e.g., Arnold H. Loewy, The Positive Reality and Normative Virtues of "Neutral" Establishment Clause, 41 Brandels L.J. 533, 541 (2003) (noting that "[a]lthough we are talking about the center of the Court, the center does seem to take neutrality seriously in regard to deific recognition in schools"); Theodore W. Ruger et al., The Supreme Court Forecasting Project, 104 Colum. L. Rev. 1150, 1155 (2004) (describing their model's success "at predicting the important votes of the moderate Justices (Kennedy and O'Connor) at the center of the current Court"); Alan B. Morrison, The Rehnquist Choice, 55 Stan. L. Rev. 1457, 1475 (2003) (reviewing John W. Dean, The Rehnquist Choice: The Untold Story of the Nixon Appointment That Redefined the Supreme Court (2001)) (claiming that "Justice Powell was ... probably more in the center of the Court on some issues than it is likely that Nixon expected").

^{2.} See, e.g., Erwin Chemerinsky, October Term 2002: Value Choices by the Justices, Not Theory, Determine Constitutional Law, 6 GREEN BAG 2D 367, 368 (2003) (claiming that "at least until the composition of the Court changes, it is the value choices of the middle of the current Court, Justices O'Connor and Kennedy, that most often determine the results"); Margaret Meriwether Cordray & Richard Cordray, The Supreme Court's Plenary Docket, 58 WASH. & LEE L. REV. 737, 784 (2001) (stating that "Justices Blackmun, O'Connor, and Powell (usually in that order) were in the middle of the Court"); Heather K. Gerken, Morgan Kousser's Noble Dream, 99 MICH. L. REV. 1298, 1330 n.125 (2001) (reviewing J. MORGAN KOUSSER, COLORBLIND INJUSTICE: VOTING RIGHTS AND THE UNDOING OF THE SECOND RECONSTRUCTION (1999)) (arguing that in "the context of Shaw... [O'Connor is] squarely in the middle of the Rehnquist Court").

Why the idea of a "median" Justice dominates this literature is a hardly a mystery: since publication of Duncan Black's seminal work8 we know that, under certain conditions, the outcome of a majority vote will "pull" towards the position favored by the median. That is because, as Black demonstrated, the median voter is essential to secure a majority.9 In the context of judicial politics, this means that the legal policy desired by the median Justice will (again, under certain conditions and voting procedures) be the choice of the Court's majority and, as such, the median can serve as an appropriate way to characterize the preferences of "the Court" and the outcomes it reaches.10

On this much virtually all social scientists—and an increasing number of legal academics-agree; indeed, Black's "Median Voter Theorem" now figures prominently and crucially in a wide array of research on the Court, from studies of the nomination and confirmation of Justices¹¹ to their interactions with Congress¹² and, of course, to the Court's resolution of disputes.¹³ Where disagreement

Most Dangerous Justice, 70 S. CAL. L. REV. 63 (1996) for an effort to distinguish between the median Justice and the "most powerful" or "most dangerous" Justice. But see Lynn A. Baker's response, Comment: Interdisciplinary Due Diligence: The Case for Common Sense in the Search for the Swing Justice, 70 S. CAL. L. REV. 187 (1996).

8. DUNCAN BLACK, THE THEORY OF COMMITTEES AND ELECTIONS (1958). Duncan Black, On the Rationale of Group Decision-Making, 56 J. Pol. Econ. 23 (1948).

9. For more on this point, see infra Part I.

1278

10. Part I, infra, more fully explains why this pull toward the median exists and, thus, why the median can provide an appropriate way to characterize "the Court."

11. See generally Michael Bailey & Kelly H. Chang, Comparing Presidents, Senators. and Justice: Interinstitutional Preference Estimation, 17 J.L. ECON. & ORG. 477 (2001) (proposing a unified scale for positioning the ideological preferences of presidents, senators, and Supreme Court Justices); Byron J. Moraski & Charles R. Shipan, The Politics of Supreme Court Nominations: A Theory of Institutional Constraints and Choices, 43 AM. J. POL. SCI. 1069 (1999) (proposing a statistical model that explains the strategic nature of presidential selection of Supreme Court nominees).

12. See generally William N. Eskridge, Jr., Reneging on History?: Playing the Court/Congress/President Civil Rights Game, 79 CAL. L. REV. 613 (1991) (proposing a model that envisions the Court, as well as Congress and the President, as a political actor in the development and interpretation of civil rights legislation); Jeffrey A. Segal, Separation-of-Powers Games in the Positive Theory of Congress and Courts, 91 Am. Pol. SCI. REV. 28 (1997) (using models to argue that Supreme Court Justices tend to vote their sincere preferences in rendering decisions, rather than deferring to their perceptions of congressional preferences).

13. See generally Lee Epstein et al., The Political (Science) Context of Judging, 47 St. LOUIS U. L.J. 783 (2003) (describing quantitative approaches that political scientists have taken to explain judicial decisionmaking); Paul J. Wahlbeck, The Life of the Law: Judicial Politics and Legal Change, 59 J. Pol. 778 (1997) (using a multinomial logit model to find that legal change is affected by the Supreme Court's political composition, legal constraints, litigation resources, attorney experience, amicus support, and presidential preferences).

exists, however, is over how to identify the median. In some studies, the authors seem to rely on their own "expert" judgment or intuitions (though perhaps derived from loose analyses);14 in others, scholars invoke more rigorous approaches, such as the methodical inspection of voting patterns in particular areas of the law.15

Because these and other extant methods have their share of problems,16 we set out to develop a more compelling approach to locate and identify the Court's median-what we call the Martin-Quinn approach because it relies on methods developed by these two scholars.17 From this approach, we now have a systematic accounting of the Justice with the highest (posterior) probability of having served as the median for each Term of the Court since 1937.

In Parts III and IV, we introduce the Martin-Quinn approach, explain why it represents an improvement over previous efforts and offer two contemporary applications—both of which assess emerging pieces of wisdom about the Court: that (1) the median Justice (Sandra Day O'Connor) has moved to the "left" or, at least, grown more moderate in recent Terms; and (2) President George W. Bush will be able to "remake" the Court. We begin, though, with two introductory notes. In the first (Part I), we consider Black's Median Voter Theorem—the theorem that motivates the use of the median in social science work on the Court. In the second (Part II), we describe previous efforts by scholars of law and courts to identify the median Justice and explain their relative advantages and drawbacks.

15. For a review of these more systematic approaches, see Lee Epstein & Carol Mershon, Measuring Political Preferences, 40 Am. J. Pol. Sci. 261 (1996). See also infra Part II.

16. See infra Part II.

^{14.} See generally Lee Epstein & Thomas G. Walker, The Role of the Supreme Court in American Society: Playing the Reconstruction Game, in CONTEMPLATING COURTS 315 (Lee Epstein ed., 1995) (using rational choice theory to argue that Reconstruction-era Court decisions reflect the Justices' strategic calculations about how the decisions will be received by the political branches); William N. Eskridge, Jr. & John Ferejohn, The Elastic Commerce Clause, 47 VAND. L. REV. 1355 (1994) (modeling the Court's behavior in enforcing the Constitution's federalist structure); Eskridge, supra note 12, at 641-64 (using positive game theory to characterize interactions between the branches of government).

^{17.} See infra Part III. For a technical description of their general project on ideal point estimation (which employs Markov chain Monte Carlo methods to fit Bayesian models) see generally Andrew D. Martin & Kevin M. Quinn, Dynamic Ideal Point Estimation Via Markov Chain Monte Carlo for the U.S. Supreme Court, 1953-1999, 10 POL. ANALYSIS 134, 137-40 (2002).

20051

I. THE MEDIAN VOTER THEOREM AND ITS APPLICATION TO THE SUPREME COURT

In the contemporary study of judicial politics, it is difficult to identify research that does not represent the Court on the basis of the preferences of the "median Justice" or otherwise make use of that concept.¹⁸ This is as true of work on the appointment of Supreme Court Justices, which suggests that both the President and the Senate are attentive to the location of the Court's median when they make their choices,19 as it is of studies of the Court's interactions with Congress²⁰ and with the federal appellate courts,²¹ which typically equate the preferences of the Court with that of its median member. It also holds for research that seeks to unearth explanations for the development of particular norms (such as the Rule of Four).22 as well for formal doctrinal analyses.²³

That the median plays such a crucial role in the modern study of law and politics is a tribute to Duncan Black's work. In a now-

19. See generally Moraski & Shipan, supra note 11.

20. See, e.g., Eskridge, supra note 12, at 615-17 (analyzing interactions between the Court and Congress in the implementation of civil rights statutes).

21. See, e.g., Frank B. Cross, Decisionmaking in the U.S. Circuit Courts of Appeals, 91 CAL. L. REV. 1457, 1509-11 (2003) (testing whether circuit court decisions can be predicted by looking at the preferences of the Supreme Court, as measured in terms of the median Justice's ideological position); Joseph L. Smith & Emerson H. Tiller, The Strategy of Judging: Evidence from Administrative Law, 31 J. LEGAL STUD. 61, 75 n.36 (2002).

22. The so-called "Rule of Four" refers to the Supreme Court's policy requiring the votes of only four Justices to support a grant of certiorari. Jeffrey R. Lax, Certiorari and Compliance in the Judicial Hierarchy, 15 J. THEORETICAL POL. 61 (2003).

23. See, e.g., LEE EPSTEIN & JACK KNIGHT, THE CHOICES JUSTICES MAKE 1 (1998); Linda R. Cohen & Matthew L. Spitzer, Judicial Deference to Agency Action: A Rational Choice and an Empirical Test, 69 S. CAL. L. REV. 431, 445-47 (1996) (applying a formula to derive an "ideology index" for federal courts).

landmark series of studies,24 Black demonstrated that, under certain conditions, the policy desired by the median will be the choice of the majority.25 Specifically, by his Median Voter Theorem, if voters (1) have single-peaked preferences (2) in a single-dimensional issue space, 26 then the position of the median will prevail under majority rule and various voting procedures.27

Let us unpack these ideas with reference to Figure 1, which illustrates the preferences of three Justices (but which generalizes to a Court of nine) over a specific policy matter: the standard (or test) to apply in constitutional sex discrimination cases (but which could be virtually any particular policy area). Notice that the issue space conforms to one condition of the Median Voter Theorem: it is a single line—a continuum, really, with policy positions on the left (more "liberal") representing higher barriers that the government must overcome to defend its sex-based classifications and those on the right (more "conservative") representing lower barriers.²⁸ Note too that the Justices' preferences conform to the single-peakedness condition: each has a maximum at some point on the line—their "most preferred position" or "ideal point"—and "slopes" away from that maximum on either side. For example, in the case of Justice 2, her most preferred position, as indicated by the top of her curve, is the rather centrist position (at least here) of skeptical scrutiny; her preferences decline for alternatives to her left (strict scrutiny) and to

24. See generally BLACK, supra note 8 passim.

26. Nearly all statistical work on the United States Supreme Court suggests that the issue space is single-dimensional. See, e.g., Bernard Grofman & Timothy Brazill, Identifying the Median Justice on the Supreme Court through Multidimensional Scaling: Analysis of "Natural Court" 1953-1991, 112 PUB. CHOICE 55, 58 (2002) (noting that the single dimension solution explains much of the Justices' voting behaviors).

27. For accessible expositions of the theorem, see SHAUN HARGREAVES HEAP ET AL., THE THEORY OF CHOICE: A CRITICAL GUIDE 219–22 (1992); DENNIS C. MUELLER, PUBLIC CHOICE II 65-66 (1989); KENNETH A. SHEPSLE & MARK S. BONCHEK, ANALYZING POLITICS 84 (1997); Roger D. Congleton, The Median Voter Model, in 2 THE ENCYCLOPEDIA OF PUBLIC CHOICE 382 (C. K. Rowley and F. Schneide ed., 2004). Our discussion here derives from these sources, as well as from EPSTEIN & KNIGHT, supra note 23, and Epstein et al., supra note 13.

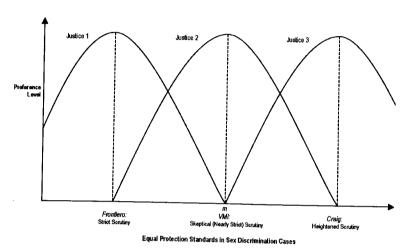
28. We identify just three possibilities: strict scrutiny, skeptical scrutiny, and heightened scrutiny. But others, both to the right of heightened and the left of strict, exist. See, e.g., Lee Epstein et al., Does the U.S. Constitution Need an ERA? 4-6 (2004), at http://epstein.wustl.edu/ research/ERA.html (on file with the North Carolina Law Review).

^{18.} In light of the theme of this Symposium, we focus exclusively on the Supreme Court of the United States, but studies of other tribunals, both here and abroad, also invoke the logic of the Median Voter Theorem. See, e.g., Lori Hausegger & Stacia Haynie, Judicial Decisionmaking and the Use of Panels in the Canadian Supreme Court and the South African Appellate Division, 37 L. & SOC'Y REV. 635, 655 (2003) (noting that in these two countries, the policy preferences of nominees for chief justice are taken into account in order to ensure that their supreme courts' "panel median" remains "closer to the chief justice"); Robert M. Howard & David C. Nixon, Local Control of the Bureaucracy: Federal Appeals Courts, Ideology, and the Internal Revenue Service, 13 WASH. U. J.L. & POL'Y 233, 245-55 (2002) (modeling the relationship between the ideological bent of the federal judiciary and IRS audit behavior to argue that courts provide some control over bureaucratic behavior); Eli Salzberger & Paul Fenn, Judicial Independence: Some Evidence from the English Court of Appeal, 42 J.L. & ECON. 831, 842-43 (1999) (using the concept of the "median judge" to analyze the independence of the English Court of Appeal).

^{25.} See, e.g., Black, supra note 8, at 28 ("No matter in what manner the preference curves or optimums of the other members alter or move about, if it is given that one optimum remains the median optimum, the decision of the committee must remain fixed.").

her right (heightened scrutiny).29

Figure 1



The median voter prevails in the decision over the standard to apply in constitutional sex discrimination cases. 30

In this depiction, Justice 2 is also the median voter: the same number of Justices prefer a lower standard than Justice 2 as the

29. The condition of single-peakedness would be violated if a Justice were an "extremist" in the sense that she preferred either a low level of scrutiny or a high level of scrutiny to the more centrist skeptical scrutiny.

number that prefer a higher standard than Justice 2 (one each).³¹ And, as such, the Median Voter Theorem tells us that the point corresponding to Justice 2's most preferred position (or ideal point)—skeptical scrutiny—will prevail in a majority vote; that point is an "equilibrium," meaning here that it will defeat any other point under a majority voting regime.³²

THE MEDIAN JUSTICE

Why? If we assume single-peakedness, Justices 2 and 3 always will oppose any standard to left of skeptical scrutiny and Justices 1 and 2 always will oppose any standard to the right of skeptical scrutiny. So, for example, suppose the choice is between the alternatives of *strict* versus *skeptical* scrutiny:

Justice 1 votes for *strict*; Justice 2 votes for *skeptical*, as does Justice 3—with *skeptical* a 2-1 vote winner.

If the alternatives are *skeptical* versus *heightened* scrutiny, then *skeptical* again prevails:

Justice 1 votes for *skeptical* as does Justice 2, while Justice 3 selects *heightened* scrutiny.

Notice that in the first instance, the outcome represents a defeat for Justice 1 and, in the second, Justice 3 fails, but, that in both, Justice 2 is on the winning side.³³

II. EXISTING METHODS FOR IDENTIFYING THE MEDIAN JUSTICE

From even this brief discussion, it is easy to see why virtually all contemporary literature on judicial decisionmaking relies so heavily on the concept of the median. If we believe, as so many scholars do,³⁴ that preferences—particularly policy preferences—play a crucial role in explaining the choices the Court makes, then we require a method

^{30.} In Frontiero v. Richardson, 411 U.S. 677 (1973), a plurality of the Court concluded "that classifications based upon sex, like classifications based upon race . . . are inherently suspect and must therefore be subjected to close judicial scrutiny." Id. at 682. In Craig v. Boren, 429 U.S. 190 (1976), the Court articulated the heightened scrutiny standard: "To withstand constitutional challenge, ... classifications by gender must serve important governmental objectives and must be substantially related to achievement of those objectives." Id. at 198. Finally, in United States v. Virginia, 518 U.S. 515 (1996) [hereinafter VMI case]. Justice Ginsburg, writing for the majority, attempted to "ratchet up" Craig, stating that "[p]arties who seek to defend gender-based government action must demonstrate an 'exceedingly persuasive justification' for that action. Today's skeptical scrutiny of official action denying rights or opportunities based on sex responds to volumes of history." Id. at 531. Ginsburg's language in the VMI case can be traced back to Mississippi University for Women v. Hogan, 458 U.S. 718, 724 (1982) and J.E.B. v. Alabama ex rel. T.B., 511 U.S. 127, 136-37 (1994). For example Peter Smith asserts "in recent gender discrimination challenges, the Court has applied a super-heightened scrutiny to equal protection challenges. The language for this redefinition of intermediate review derives from Hogan," which required that gender-based governmental action demonstrate an exceedingly persuasive justification. Peter Smith, The Demise of Three-Tier Review, 23 J. CONTEMP. L. 475, 477 n.17 (1997). Smith also cites J.E.B. Id.

^{31.} We adapt this example from Congleton, *supra* note 27, at 382, and Keith Krehbiel, *Spatial Models of Legislative Choice*, 13 LEGIS. STUD. Q. 259, 260-69 (1988).

^{32.} The median need not be unique. Indeed, with an even number of Justices, the median is actually the range of points between the two most central Justices. This is because any of these points constitutes an equilibrium.

^{33.} We also should note that the median need not be located exactly between the highest standard and the lowest. As HEAP ET AL., *supra* note 27, at 221, note "[t]he median is identified by reference to the relation between his or her preferences and the preferences of all other voters, and not by reference to the underlying terms in which the ideological space is defined." What this means is that if the Court is rather conservative (such that some Justices prefer a rational basis standard, which would be to the right of intermediate scrutiny) then the median might prefer heightened scrutiny.

^{34.} See Epstein & Knight, supra note 23, at 57; Jeffrey A. Segal & Harold J. Spaeth, The Supreme Court and the Attitudinal Model Revisited 44-85 (2002); Ruger et al., supra note 1, at 1157-58.

to account for those preferences. Enter the Median Voter Theorem: if it holds for the Court, then it suggests that the preferences of the median Justice ought to provide a meaningful representation of the preferences of "the Court."35

At the very least, this is how judicial specialists have made use of the theorem's logic. Illustrative is recent research by Epstein et al., which sought to determine whether the United States Supreme Court curtails rights and liberties during wars and other threats to the nation's security.36 Conducting the investigation required the researchers to take into account whether an international crisis was ongoing when the Court made its decision; that was the variable of primary interest. But, in light of a vast social science literature indicating the existence of a political component to judicial decisionmaking—such that liberal Justices, regardless of a war, are more likely to support litigants alleging a violation of their rights by the government and conservatives Justices are more likely to support the government—Epstein and her colleagues also needed to attend to the political preferences of "the Court" over matters of rights and liberties.³⁷ To do so, they included a variable called "the Court," but which was, in fact, the political preferences of the median Justice.

The task confronting Epstein et al.—not to mention virtually all researchers investigating judicial decisionmaking—was how to locate the median's ideal point. To accomplish it, she and her colleagues relied on expert judgments. But two other methods were possible: the use of party affiliations and votes. In what follows we consider all three.

A. Party Affiliations

The use of political party to identify the median Justice comes in many variants. Some analysts rely primarily on the party of the Justice, others on the party of the appointing President or Senate, and still a third group on a combination of two or more of these factors. Spitzer and Cohen's work exemplifies the latter.38 To locate the policy preferences of the Court's median, they assigned a score (ranging from 0 to 1, with 1 being the most conservative) to each Justice serving between 1977 and 1992 based on the political party of the appointing Senate and President.39 We display the results of their calculations for the 1977 Term in Table 1 but the year we selected matters not: the median was a relatively conservative .70 for all the years in their study.40

^{35.} Some law scholars have taken issue with the conditions of Black's theorem. Edelman & Chen, supra note 7, at 231, for example, assert that "it verges on the unsporting to name a multidimensional controversy," though they name one. And Evan H. Caminker writes that:

It is frequently assumed that ... the majority will converge in a moderate or median position. This may well be quite likely when the Justices' ideal points can be lined up nicely in a single-peaked fashion along a single dimension, for in stance from liberal to conservative . . . But sometimes the options under discussion cannot easily be aligned along a single dimension.

Evan H. Caminker, Sincere and Strategic Voting Norms on Multimember Courts, 97 MICH. L. REV. 2297, 2320 (1999). We too can identify particular cases that violate the condition of a single-dimension issue space but, as it turns out, the great majority of disputes before the Supreme Court do not. For example, of the 8,889 cases in which the Court heard oral arguments and decided between the 1953 and 2002 terms, only 3.79 percent (n=337) contained more than one issue (e.g., a case that raised questions about federal taxation and federalism). See Harold J. Spaeth, United States Supreme Court Database, May 17, 2004 release, at http://www.as.uky.edu/polisci/ulmerproject/UlmerProject/sctdata.htm (calculating the prior percentage using the following values: analu=4; dec type=1,6, or 7) (on file with the North Carolina Law Review); see also Grofman & Brazill, supra note 26, at 55 (using multidimensional analysis scaling to estimate the policy preference of the

^{36.} Lee Epstein et al., The Supreme Court During Crisis: How War Affects Only Non-War Cases, 80 N.Y.U. L. REV. 1 (2005).

^{37.} This literature is indeed vast. For the canonical example, see SEGAL & SPAETH, supra note 34, at 115-74.

^{38.} Cohen & Spitzer, supra note 23, 431.

^{39.} See id. at 445-47. Their score gives greater weight to the President when the

Senate is of the opposing political party. For more details, see id.

^{40.} See id. As Spitzer and Cohen explain it, "[t]he median is .7 [for 1977]. In 1981 O'Connor (with a value of 1.0) replaced Stewart, making the median .7 In 1986 Scalia (1.0) replaced Burger, leaving the median at .7 In 1988 Kennedy (.7) replaced Powell, leaving the median ... unchanged. In 1990 Souter (.7) replaced Brennan, leaving the median . . . unchanged." Id. at 447 n.38.

Table 1

Justice	Spitzer-Cohen	Actual Liberal
	Score for 1977	Voting in 1977
Blackmun	.70*	.52
Brennan	.70*	.79
Burger	.70*	.36
Marshall	.00	.80
Powell	.70*	.47
Rehnquist	.70*	.19
Stewart	.70*	.55
Stevens	.70*	.53*
White	.00	.53*

Using party affiliation to identify the location of the median Justice, 1977. An asterisk "*" indicates the median Justice in 1977. The Spitzer-Cohen column shows the Spitzer-Cohen political preference score, which is based on the party affiliation of the appointing President and Senate. The Actual Liberal Voting column shows the proportion of liberal votes cast in 1977 in civil liberties cases. 41

The relative ease of developing a Spitzer-Cohen-type approach makes it attractive: data on the party affiliations of Justices, Presidents, and Senates are available from any number of sources.⁴² But this approach's downsides are considerable. First, as Spitzer and Cohen themselves recognize, ideological "mistakes" abound.⁴³ That is because the appointing President, Senate, or both can and do make them; Eisenhower admitted as much about two of his nominees, Brennan and Warren, who-much to his chagrin-turned out to be a good deal more liberal than he anticipated.44

Surely, this problem afflicts the Spitzer-Cohen method, which classifies both Brennan and Rehnquist as medians when, based on their actual voting records, they are the maximums and minimums (or nearly so).45 But a second, albeit related, downside may be even more serious: the Spitzer-Cohen measure assumes that all Democrats are equivalently liberal and all Republicans are equivalently conservative, when plainly this is not always the case. Presidents of the same political party vary in their ideological preferences; "Eisenhower is not Reagan."46 Nor, might we add, is Senator Ted Kennedy the ideological equivalent of Senator Joe Lieberman even though they are both Democrats; likewise, Justice Stevens is not Chief Justice Rehnquist even though they are both Republicans.

Because party-based approaches to the median can miss these ingroup distinctions, they are prone to errors. On most, for example, the median would not have budged when the Nixon appointee, Warren Burger, replaced the Eisenhower appointee, Earl Warren: both Presidents were Republicans, as were their appointees. Based on the observed proportion of liberal votes cast, however, the location of the median did, in fact, change: in the area of civil liberties, for example, it moved considerably—from a liberal score of .771 (Fortas) to .504 (White/Black).47

Of course this decrease in liberalism would hardly surprise students of politics: by most measures, Nixon was more conservative than Eisenhower⁴⁸ and Burger was more conservative than Warren.⁴⁹ But it is not an alteration that a blunt indicator, such as party affiliation, is particularly able to detect.

"Expert Judgments": The Segal-Cover Scores

The use of expert judgments to identify the median Justice is a relatively new approach. It was developed by political scientists Jeffrey A. Segal and Albert D. Cover, who analyzed the content of

^{41.} See id. (reporting the Cohen & Spitzer scores); LEE EPSTEIN ET AL., THE SUPREME COURT COMPENDIUM 491-523 tbl. 6-3 (2002) (reporting the proportion of liberal votes cast).

^{42.} For an electronic, analyzable source that contains information about the party and ideology of Justices, Presidents, and Senators, see the United States Supreme Court Justices Database, which is available at http://epstein.wustl.edu/research/justicesdata.html (last visited Apr. 20, 2005) (on file with the North Carolina Law Review).

^{43.} Cohen & Spitzer, supra note 23, at 447 n.38.

^{44.} Specifically, when asked if he made any mistakes as President, President Eisenhower replied "[y]es, two, and they are both sitting on the Supreme Court." See LAURENCE H. TRIBE, GOD SAVE THIS HONORABLE COURT 51 (1985).

^{45.} See Table 1.

^{46.} Workshop on Empirical Research in the Law, On Tournaments for Appointing Great Justices to the U.S. Supreme Court, 78 S. CAL. L. REV. 157, 176 (2004) ("Indeed, the empirical record demonstrates that the voting propensities of some Democratic and Republican Presidents do not differ significantly.") (citing Michael W. Giles et al., Picking Federal Judges: A Note on Policy and Partisian Selection Agendas, 54 POL. RESEARCH Q. 623, 624 (2001)).

^{47.} See also Table 4 (showing that the median moved from Thurgood Marshall (a very liberal -0.781) in the 1968 term to Hugo Black (0.187) in 1969).

^{48.} See, e.g., Keith Poole, Nominate Data: Common Space Coordinates for U.S. Presidents, at http://voteview.uh.edu/default_nomdata.htm (last visited June 25, 2004) (reporting a score of 0.169 for Eisenhower and 0.369 for Nixon (higher scores are more conservative)) (on file with the North Carolina Law Review).

^{49.} For example, 78.6% of Warren's 771 votes in civil liberties cases were in the liberal direction; that figure for Burger is 29.6% (N=1,429). Data are from EPSTEIN ET AL., supra note 41, tbl. 6-2. See also Figure 2.

[Vol. 83]

newspaper editorials written between the time of a Justice's nomination to the Court and confirmation to the bench.⁵⁰ Segal and Cover then translated their "expert judgments" (i.e., newspaper editors' assessments) into ideological values or scores, which range from -1 (unanimously conservative) to 0 (moderate) to +1 (unanimously liberal).51 In Figure 2 we display these "Segal-Cover" scores for each Justice appointed since 1937;52 and in Figure 3 we depict the scores of utmost concern here: those for the median Justice for the 1946 through 2003 Terms.⁵³

51. As Segal and Cover explain their procedures:

We trained three students to code each paragraph [in the editorial] for political ideology. Paragraphs were coded as liberal, moderate, conservative, or not applicable. Liberal statements include (but are not limited to) those ascribing support for the rights of defendants in criminal cases, women and racial minorities in equality cases, and the individual against the government in privacy and First Amendment cases. Conservative statements are those with an opposite direction. Moderate statements include those that explicitly ascribe moderation to the nominees or those that ascribe both liberal and conservative values.

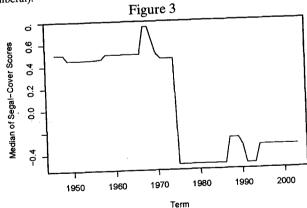
Segal & Cover, supra note 50, at 559 (emphasis omitted). They arrived at their measure by subtracting the fraction of paragraphs coded conservative from the fraction of paragraphs coded liberal and dividing by the total number of paragraphs coded liberal, conservative, and moderate.

Figure 2 Powell 0.0

The Segal-Cover scores for Justices appointed since 1937 (Hugo L. Black through Stephen G. Breyer). The scores range from -1.00 (most conservative) to 1.00 (most liberal).54

Segal-Cover Score

-1.0



The median of the Segal-Cover scores, 1946-2003 Terms. The line depicts the Segal-Cover score of the median Justice for each term. The scores range from -1.00 (most conservative) to 1.00 (most liberal).⁵⁵

^{50.} Jeffrey A. Segal & Albert D. Cover, Ideological Values and the Votes of U.S. Supreme Court Justices, 83 Am. POL. SCI. REV. 557 (1989). Segal and Cover made use of editorials in four of the nation's leading newspapers, two with a liberal outlook (the New York Times and the Washington Post) and two on the more conservative end (the Chicago Tribune and the Los Angeles Times). Jeffrey A. Segal et al., Ideological Values and the Votes of U.S. Supreme Court Justices Revisited, 57 J. Pol. 812 (1995), updated the Segal-Cover scores to cover the four most recent nominees (Souter, Thomas, Ginsburg, and Breyer) and backdated the scores to include Justices appointed since 1937 (Hugo Black).

^{52.} For a complete list of the Segal-Cover scores, see EPSTEIN ET AL., supra note 41, tbl. 6-1.

^{53.} We begin with the 1946 term because that it is the first one for which Segal-Cover scores are available for all sitting Justices. EPSTEIN ET AL., supra note 41, tbl. 6-1.

^{54.} The Segal-Cover scores are available in EPSTEIN ET AL., supra note 41, tbl. 6-1.

^{55.} The median of the Segal-Cover scores for each term is available in EPSTEIN ET AL., supra note 41, tbl. 3-12.

From these illustrations, we can see why many scholars employ these scores: to the extent that they are well in line with commonly held intuitions about particular Justices and Court eras, they appear facially valid. For example, Brennan and Marshall, generally regarded as liberals, receive scores of 1.00; Scalia and Rehnquist, generally regarded as conservatives, receive scores of -1.00 and -0.91, respectively. The median Justice data also comport with scholarly impressions of particular Court eras: note the high level of liberalism during the Warren Court years (1953-1968 Terms) and the decrease that occurs thereafter as more and more Justices appointed by conservative Presidents Richard M. Nixon, Ronald Reagan, and George H.W. Bush ascended to the bench.⁵⁶

The assets of the Segal-Cover scores do not stop here. Yet another—and one that provides their clear competitive advantage—is this: because Segal and Cover generated them from an inspection of newspaper editorials prior to the Justices' confirmation, and not from decisions rendered upon their ascension to the bench, the scores are exogenous to the judicial vote. This means that scholars can employ them as a measure of the median Justice's preferences in their studies without running the risk of circularity (i.e., using votes [to locate the median] to predict votes). Of course, invoking the scores in this way would not be particularly beneficial if they failed miserably at explaining judicial output, but that is not the case: statistical analyses demonstrate they are acceptable predictors of votes in many (but not all)57 areas of the law, for many Justices; they also are able to capture the median voter in many (though again not all) Terms, which in turn, can supply a (relatively) useful predictor of Court outcomes.58

^{58.} For example, a simple bivariate regression of the percentage of civil liberties cases decided in the liberal direction and the median of the Segal-Cover scores produces the following.

Variable	Coefficient	(Std. Err.)
Median of the Segal-Cover Score	18.817**	(3.044)
Intercept	49.917**	(1.436)
N	56	
R^2	0.414	
$\mathbf{F}_{(1.54)}$	38.221	

These advantages—and they are considerable—explain why Epstein and her colleagues, in their research on the effect of war on judicial decisions, relied on the Segal-Cover scores and not party affiliation to identify the ideal point of "the Court" (i.e., the median Justice).⁵⁹ Unfortunately, disadvantages exist as well. One is that while the Segal-Cover scores provide a reasonable measure of the median for research focusing on civil liberties (e.g., the Epstein war study),60 they hold little explanatory power for analyses of litigation involving unions, federalism, and taxation—or about fifteen percent of the Court's plenary docket.⁶¹ This is hardly a surprise since Segal and Cover, recall, developed their measure from newspaper editorial writers—a group of "experts" who may very well be inclined to evaluate a judicial candidate's ideological leaning on the basis of a few "splashy" civil liberties issues rather than on the range of issues potentially facing the new Justice. But it is a real disadvantage for research requiring a measure of the median in the range of disputes before the Court.

A second drawback is that we cannot, from the Segal-Cover scores (or, for that matter, party affiliation), quantify the degree of uncertainty about the location of the median. In other words, Segal and Cover treat the median as unambiguously "the median" even though we have an intuition that this is not always the case. Indeed, without O'Connor's presence on the Court today, we doubt that this Symposium, specifically on the Court's "center," would have the cachet that it does: on virtually all conceptual and empirical definitions, O'Connor is the Court's center—the median, the key, the critical, and the swing Justice.⁶² But would we say the same about Thurgood Marshall in 1968, Harry Blackmun in the late 1970s, and David Souter in the early 1990s? Each was, in fact, very likely the Court's median, but none was as unambiguously so as O'Connor.63 The ability to quantify this degree of ambiguousness—in the form of a probability—is thus a crucial task, but one that neither the Segal-Cover scores nor approaches based on party affiliation are capable of assuming.

^{56.} For ideological characterizations of particular Court eras, see generally HOWARD GILLMAN, THE VOTES THAT COUNTED (2001); William N. Eskridge, Jr., Overriding Supreme Court Statutory Interpretation Decisions, 101 YALE L.J. 331 (1991); Thomas W. Merrill, The Making of the Second Rehnquist Court: A Preliminary Analysis, 47 ST. LOUIS U. L.J. 569 (2003).

^{57.} We return to this point momentarily.

The median of the Segal-Cover scores are available in EPSTEIN ET AL., supra note 41, tbl. 3-12; data on civil liberties cases are in EPSTEIN ET AL., supra note 41, tbl. 3-8.

^{59.} EPSTEIN ET AL., supra note 41.

^{60.} See supra note 36.

^{61.} See Epstein & Mershon, supra note 15, at 278. For data on the Court's plenary docket, see EPSTEIN ET AL., supra note 41, at 80-85, tbl. 2-11.

^{62.} See infra note 80. Interestingly, an exception here is the Segal-Cover approach, which categorizes Souter, not O'Connor, as the median.

^{63.} See Figure 5.

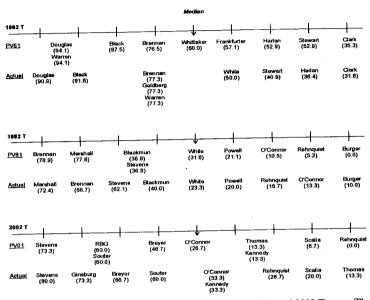
[Vol. 83

C. Votes

There is yet one other method for identifying the Court's median, and it may be the most common: analyses of votes cast by the Justices. One reason for the appeal of this approach is that it is relatively easy to deploy. All the researcher needs do is select an area of the law—say, criminal procedure or an even finer one, such as Fourth Amendment search and seizure cases—and inspect the behavior of individual Justices in a given Term(s), Term t, with an eye toward characterizing the median in that term or in a subsequent one, Term t + 1.

That inspection could take several forms; here, we emphasize two. In the first, illustrated in Figure 4 (the PV[term] line), we (1) examine the percentage of votes cast by the Justices in favor of criminal defendants (that is, the percentage of "liberal" votes) in three Terms (1961, 1981, and 2001) and then (2) array the Justices on the single issue dimension of criminal procedure, which ranges from most favorable to defendants (most liberal) to least favorable (most conservative). The Justice in the middle is the median for that Term (e.g., Justice White in the 1981 Term).

Figure 4



The median Justice in criminal procedure cases, 1962, 1983, and 2002 Terms. The figure in parentheses under the Justice's name is the percentage of votes cast in favor of the defendant (liberal votes). The PV[term] line arrays the Justices based on their percent liberal voting in criminal procedure cases in the prior Term. For example, for the 1962 Term, the PV61 line shows the Justices arrayed based on their voting in the 1961 Term, such that Clark cast 35.3% of his votes in favor of defendants, Stewart cast 52.9%, and so on. The actual line arrays Justices based on their percent liberal voting in criminal procedure in that term. For example, for the 1962 Term, the Actual line shows the Justices arrayed based on their voting in the 1962 Term. Note that Whittaker departed from the Court (and White arrived) before the end of the 1961 Term, and that Frankfurter participated in only seven of the seventeen criminal procedure cases decided during that Term. We include them here for purposes of discussion. 65

In the second example, shown in Table 2, we reproduce Segal's cumulative scale of Fourth Amendment search and seizure cases resolved by the Justices between the 1975 and 1980 Terms (a period of stability in the Court's membership).⁶⁶ From even a visual inspection of this scale—which is simply an ordering of cases based on

^{64.} More accurately, vote analysis encompasses diverse sets of methods, from the simple counting of "liberal" and "conservative" votes in various issue areas to sophisticated latent variable models. Compare Harold J. Spaeth, The Attitudinal Model, in CONTEMPLATING COURTS 296-314 (Lee Epstein ed., 1995), with Martin & Quinn, supra note 17, 137-40. For a review of literature relying on some of these methods, see Epstein & Mershon, supra note 15, at 263-66.

^{65.} We derived these data from Spaeth, supra note 35, passim.

^{66.} Jeffrey A. Segal, Supreme Court Justices as Human Decision Makers: An Individual-Level Analysis of the Search and Seizure Cases, 48 J. Pol. 938, 943 (1986).

[Vol. 83]

the number of "+" votes (those cast in support of the defendant) and of the Justices based on the number of "+" votes they cast—we could reach a number of conclusions but only one is relevant here: Justice White once again emerges as the median. He sits in the middle of the array across the top; we also can observe that (with a few "errors" here and there) the cases tend to break around him: when he votes in favor of the defendant, the outcome tends to favor the defendant and when he votes against the defendant, the outcomes tend to go against the defendant. Finally, as Segal explains, "[o]f the 37 cases scaled in [the figure] ... White provided the minimum winning vote 24 times. with Stevens following at five and one-half."67

	Table 2									
Section.	• Common	Seleg		Witte	Powel	Пасенно	Burger	Rose September	7000	
+	+	+	+	+	+	+	+	-	8-1	
+	+	+	+	+	+	+	+	-	8-1	
+	+	+	+	+	NP	+	+	-	7-1	
+	+	+	+	+	+	+	-		7-2	
+	+	+	+	+	+	+	-	-	7-2	
+	+	+	+	+	+	-	+	-	7-2	
+	+	+	+	•	+	+	+	-	7-2	
+	+	+	+	+	+	-	-	-	6-3	
+	+	+	+	-	+	-	+	-	6-3	
+	+	-	+	+	+	-	-	-	6-3	
+	NP	-	+	+	+	+	-	-	5-3	
+	+	+	+	+	-	-		-	5-4	
+	+	+	+	-	-		-		4-5	
+	+	+	+	•	•		-	-	4-5	
+	+	+	-	+	-		-	-	4-5	
+	+	+	-	+	-	-	-	-	4-5	
+	+	•	+	+	-	-	-		4-5	
+	+	+	-	-	+	-	-	-	4-5	
+	+	-	+	-	NP	-	-		3-5	
+	+	NP	+	-	-	-	-		3-5	
+	NP	+	+	-	-	-	-	-	3-5	
+	. +	+	-	-	•	-		-	3-6	
+	+	+	-	-	-	-	-	-	3-6	
+	+	+	-	-	-	-		-	3-6	
+	+	+	-	~	-	-	-		3-6	
+	+	-	+	-	-	•	-	-	3-6	
+	+	-	-	+	•	-	-	-	3-6	
+	+	-	NP	NP	-	-			2-5	
+	NP	-	-	+	-	•	-	-	2-6	
+	+	-	-	-	-	-	-	-	2-7	

Meedialt	Brownan	Stevens	Stewart	White	Powell	Blackmen	Burger	excessions.		
+	+	-	-	-	•	•	-	•	2-7	
+	+	-	*	-	-	•	-	-	2-7	
+	+	-	-	-	•	-	•	-	2-7	
+	+	-	-	-	-	-	-	-	2-7	
+	+	-	-	-		-	-	-	2-7	
		_	+	-	_	-		-	1-8	

THE MEDIAN JUSTICE

Cumulative scale of non-unanimous search and seizure decisions, 1975-1980 Terms. A "+" indicates a vote in favor the defendant (the search was unreasonable); a "-" indicates a vote in favor of the government (the search was reasonable); and a "NP" indicates that the Justice did not participate in the case.68

Segal's examination of voting patterns, not to mention ours in Figure 4, shores up the advantages of this approach: it is, as we noted earlier, relatively straightforward to deploy and is capable of unearthing the median for a given Term(s). Moreover, it can provide valuable fodder for research, as the Segal study itself demonstrates. After identifying White as the median voter in search and seizure cases, Segal explored possible explanations for the decisions of this key Justice. From this analysis we learn, among other lessons, that White treated "searches involving the United States more leniently than cases involving the various states A state search having a fifty-two percent chance of being upheld by White would have a probability of .74 of being upheld if it were a federal search."69

On the other hand, invoking votes to locate the median is hardly without drawbacks. Primarily, while we have no qualms with the Segal study, we and most other social scientists would certainly take issue with research that invoked the median (to represent "Court") in Term t to explain Court decisions in Term t: that would amount to using votes to predict votes.70

And therein lies the rub: if we cannot employ votes in this way, then they are of little value for many research projects—actually, for any project that seeks to explain judicial outcomes. So, for example, while their study of decisionmaking during times of war required them to include a variable representing the Court's preferences, Epstein and her colleagues rejected as utterly circular the use of the median's percentage liberal score in, say, the 1962, 1982, and 2002

^{68.} This scale is from Segal, supra note 66, at 943.

^{69.} Id. at 946.

^{70.} Technically, this means that the independent and dependent variables are identical: votes and votes. For more on this problem in research on the Court, see SEGAL & SPAETH, supra note 34, at 312-54; Epstein & Mershon, supra note 15, at 263.

Terms to explain voting in the 1962, 1982, and 2002 Terms. (They employed instead, as we noted earlier, the Segal-Cover scores.)

Of course, this same problem does not afflict research that relies on median votes in Term t-1 to account for Court decisions in Term t(that is, the use of past votes to explain current behavior). Numerous studies in fact take this approach and for a good reason: the past turns out to be a satisfactory predictor of the future. Epstein and Mershon, for example, demonstrate that using past (one-year lagged) votes to locate the Justices along a policy scale in a given Term yields fairly accurate results (that is, significant Spearman rank-order correlations) for the subsequent Term, for all the Terms in their study (1953–1991).⁷¹ Likewise, they find that Court voting in Term t-1explains (to a statistically significant degree) voting in Term t in all the legal areas they examined (criminal procedure, civil rights, First Amendment, economics, and judicial power).72

Our analysis too provides some support for this approach. Return to Figure 4 and note that if we relied on the median voter in the 1981 Term (White) to characterize Court preferences in the 1982 Term, we would have selected the "right" Justice: White was once again the median. But notice the problem that emerges if we were studying the 1962 Term: the median in the 1961 Term, Whittaker, actually retired midway through the Term; and Frankfurter left in August of 1962. Two new Justices joined the Court, Goldberg and White, making any a priori determination of the median's preferences in 1962—at least using past votes—nearly impossible.

III. OUR APPROACH TO IDENTIFYING THE MEDIAN

Other problems with a reliance on votes (past or current) would be easy enough to summon. For example, even if we could correctly anticipate the median for the 1962 Term, we could not employ the data in Figure 4, which centers on criminal procedure, to study decisions involving, say, labor-management disputes; we would need to create a different array—a tedious process for the researcher analyzing a number of distinct legal areas. But further discussion of this and other drawbacks would only serve to underscore the larger point: all existing methods to identifying and locating the median have their share of problems, and these are hardly marginal problems. That is why we set out to develop a new and, we hope, more

compelling method.

2005]

Our approach (hereinafter the "Martin-Quinn" approach or method) is distinct from all those we have thus far discussed in that: (1) we base it on a spatial model of voting on the Court, which (2) we in turn use to derive a probability model in which the votes of the Justices are the dependent variables.73 As such, our method provides a logically coherent approach to estimate directly the quantities of interest (the ideological location and identity of the median Justice) that also enjoys good statistical properties as long as some mild side conditions are met.

The spatial model that motivates the Martin-Quinn approach assumes that Justices have a choice between two alternatives.⁷⁴ These alternatives have policy consequences that we can represent by points in an issue space. Justices evaluate these policy consequences with utility functions that are single-peaked around some ideal policy point specific to each Justice. A (trivial) consequence of the model is that a Justice is most likely to vote for the alternative that is closest to her in the policy space.

The probability model that we derive from this theoretical model of spatial voting is a means of accounting for variability in the votes of Justices in relatively parsimonious terms. More important for the purposes of this Article, it provides a framework that analysts can use to make principled statements about the location and identity of the median Justice on the Court.

The central building block for the probability model is that the probability of Justice j voting for the alternative coded 1^{75} in case k is

^{71.} Epstein & Mershon, supra note 15, at 274.

^{72.} Id. at 275, 278; see also Lee Epstein et al., The Supreme Court and Criminal Justice Disputes: A Neo-Institutional Perspective, 33 Am. J. Pol. Sci. 825, 828 (1989).

^{73.} While Grofman and Brazill's approach also is a method of uncovering an ideological scale from observed votes, it is not directly linked to a theoretical model of voting. See Grofman & Brazill, supra note 26, at 58. Further, because their method does not make use of an explicit probability model the researchers are unable to make statements about the uncertainty attached to their measures.

^{74.} For more on this point see infra note 75.

^{75.} As we note in the text, the model assumes that the Justices' votes can be treated as dichotomous (i.e., 0/1) variables with possible missing values. The coding rule for this dichotomization is not important as long as it is consistent across Justices within a particular case. We use an "affirm"/"reverse" dichotomy but other coding schemes would produce identical results. All that is necessary is that the votes of the Justices be coded consistently within a particular case. In other words, it is perfectly satisfactory to code votes on some cases as "with the majority"/"not with the majority" and votes on another subset of cases as "with the Chief Justice"/"not with the Chief Justice," and so on. All such codings will produce identical results. The reason for this, as we develop in the text, is that the parameter β_k that appears in the expression for the vote probabilities is a free parameter that can take either positive or negative values. A positive β_k implies that rightward movement of an ideal point will make the Justice more likely to vote in the direction coded as "1" for case k while a negative β_k will imply the opposite. Since each

1299

[Vol. 83

given by:

$$\Phi(\alpha_k + \beta_k \theta_j)$$

where $\Phi(\cdot)$ is the standard normal cumulative distribution function, α_i and β_{ι} are deterministic functions of the policy locations of the two alternatives, and θ_i is the ideological location of Justice j's most preferred policy (her ideal point).76 Because of the dichotomous nature of each Justice's decision, the probability that Justice j votes for the alternative coded 0 in case k is given by:

NORTH CAROLINA LAW REVIEW

$$1 - \Phi(\alpha_k + \beta_k \theta_i)$$

The mathematics involved here follow directly from the theoretical model of voting and are just a representation of the fact that, under the theoretical model, Justice j will most likely vote for the option generating the policy consequences she most prefers.

Martin and Quinn have analyzed this model from a Bayesian perspective, which is simply a means of rationally learning about the probable values of the model parameters. As a practical matter, this is very similar to finding the values α_k , β_k , and θ_i for all cases and Justices that were most likely to have generated the observed votes (i.e., classical maximum likelihood estimation). A subtle (but, for this Article, important) difference between Bayesian inference and classical likelihood inference is that Bayesian inference involves summarizing the joint probability distribution of all model parameters given the observed data, whereas classical inference involves the use of an estimator to pick a unique estimate of the model parameters along with an assessment of how this estimator would behave if new data samples were taken from the population of interest. The reason this is important here is that once the joint probability distribution of all the Justices' ideal points is known, calculating probability distributions for the location of the median Justice, the identity of the median Justice, and any other function of the ideal points is little

more than an exercise in counting.⁷⁷

To see why, consider the following stylized example involving three Justices in a single-dimensional issue space. Using the rules of Bayesian inference we can calculate the joint probability distribution of the three ideal points given the observed voting data. Call the three ideal points θ_1 , θ_2 , and θ_3 . With knowledge of the joint distribution of the ideal points we can take a random sample of θ_1 , θ_2 , and θ_3 from this distribution. In practice we would want to take a very large random sample, but for the sake of illustration we assume a sample of size ten. Table 3 displays this hypothetical sample, with each row representing one draw from the joint probability distribution of θ_1 , θ_2 , and θ_3 .

Table 3						
θ	θ_2	θ_{3}				
1.2	0.7	-1.4				
0.8	1.1	-1.7				
0.9	1.0	-1.1				
0.6	1.2	-1.0				
1.0	0.9	-0.8				
0.7	1.3	-0.5				
1.1	1.0	-1.3				
0.9	1.2	-1.0				
0.8	0.9	-0.9				
1.1	1.0	-0.7				
	tion of	ideal no				

Hypothetical sample from joint distribution of ideal points for a three Justice example.

With this sample in hand we can estimate the quantities that are of direct interest to us-the location and identify of the median Take first the location of the median Justice. The distribution of this quantity is simply that of the median element of $(\theta_1, \theta_2, \theta_3)$ from each row. In this example, this is (0.7, 0.8, 0.9, 0.6, 0.9,0.7, 1.0, 0.9, 0.8, 1.0). The expected location of the median is just the mean of this distribution, which is (0.7+0.8+0.9+0.6+0.9+0.7+

case has a distinct β_k the coding of votes needs only to be consistent across Justices within each case. Indeed, inspecting the sign of the estimated β_i s provides a principled means to test the accuracy of subjective "liberal" / "conservative" codings of votes. See generally Joseph Bafumi et al., Practical Issues in Implementing and Understanding Bayesian Ideal Point Estimation (2004) (discussing ideal point estimation), available at http://polmeth.wustl.edu/retrieve.php?id=27 (on file with the North Carolina Law Review).

^{76.} The full Martin-Quinn model is slightly more complicated due to issues of temporal dependence. These complications do not affect the intuition behind the formulation above.

^{77.} In contrast, even when analysts calculate appropriate measures of estimation uncertainty for classical estimates (which is rare in the scaling literature), the resulting point estimates and standard errors do not enable them to make statements about the probability that a particular Justice is the median or about the location of the median in a particular term.

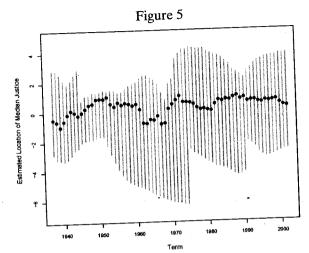
1.0+0.9+0.8+1.0)/10=0.83. To find the identity of the median Justice, we estimate the probability that Justice j (for all j) is the median of the Court. We do this by calculating the fraction of the draws for which θ_j is the median. From this exercise, we learn that approximately a sixty percent chance exists that Justice 1 is the median, a forty percent chance that Justice 2 is the median, and less than a ten percent chance that Justice 3 is the median. We can make all these estimates arbitrarily precise by increasing the size of the random sample from the distribution of ideal points.

A. Results from the Martin-Quinn Approach

1300

With our method now noted, let us turn to the basic results it yields. We begin, in Figure 5, with the Martin-Quinn estimates of the location of the median Justice in each Term from 1937–2002. The black (dotted) line indicates the location, such that the higher (positive) the number, the more conservative the median and the lower (negative) the number, the more liberal. As points of reference, we also plot (using the gray vertical lines) the range spanned by the most liberal and most conservative Justice in each term. So, for example, in the first Term depicted, 1937, the median Justice (Charles Evans Hughes) is a relatively moderate -0.434; the most conservative (James McReynolds) is 2.813; and the most liberal (Hugo Black) is -2.852. In the last Term we show (2002), Sandra Day O'Connor is the median (0.247); Clarence Thomas is the most conservative (3.637); and John Paul Stevens is the most liberal (-2.516).

2005] THE MEDIAN



Estimated posterior distribution of the location of the median Justice for the dynamic ideal point model, 1937–2002. The y-axis is the estimated ideal point scale (from liberal to conservative); the x-axis denotes the Term. The black (dotted) line indicates the location of the median, such that the higher (positive) the number, the more conservative the median and the lower (negative) the number, the more liberal. The gray (vertical) lines for each Term represent the estimated location of the most liberal and conservative Justice each Term.

From this figure flow a number of interesting findings. Since we bring several to light in Part IV, let us for now simply point to one: the location of the median fluctuates considerably over time—even during periods of stability in Court membership (or what social scientists call "natural courts"). Consider, for example, the period between the 1994 and 2002 Terms. While no Justices joined or retired during these Terms, the median ranged from a high of 0.711 (O'Connor) to a low (liberal) of 0.247 (O'Connor). This result, as we highlight later, supports speculation that the Rehnquist Court median has begun to drift slightly to the left; on the other hand, it may call

^{78.} See, e.g., Saul Brenner, Fluidity on the United States Supreme Court: A Reexamination, 24 AM. J. POL. SCI. 526, 528 (1980) ("A natural court is a court in which only a given nine Justices sit."); Youngsik Lim, An Empirical Analysis of Supreme Court Justices' Decision Making, 29 J. LEGAL STUD. 721, 724-25, n.9 (2000) ("[A] natural court persists until its composition is changed. That is, when a new Justice is appointed to replace an incumbent, a new natural court begins."); David M. O'Brien, Charting the Rehnquist Court's Course: How the Center Folds, Holds, and Shifts, 40 N.Y.L. SCH. L. REV. 981, 981 n.5 (1996) ("Political scientists generally analyze the Supreme Court in terms of 'natural courts,' periods in which the Court's personnel remain stable.").

1302

into question analyses and methods (including the Segal-Cover scores) that assume little, if any, change in the median's ideology during natural court periods.

These observations follow from our estimates of the *location* of the median. We also can invoke the Martin-Quinn method to calculate the *probability* that a particular Justice was the median in a particular Term. We report this information in Table 4 for the Justice to which our estimates point as the most likely median in each Term since 1937.

Table 4

Table 4								
Tem	Median	StdDev	Justice	Probability				
1937	-0.466	0.230	Hughes	0.467				
1938	-0.616	0.237	Stone	0.456				
1939	-0.968	0.245	Reed	0.734				
1940	-0.575	0.236	Reed	0.648				
1941	-0.130	0.228	Byrnes	0.536				
1942	0.141	0.229	Reed	0.576				
1943	0.014	0.230	Reed	0.744				
1944	-0.197	0.225	Reed	0.999				
1945	-0.005	0.216	Reed	0.994				
1946	0.244	0.178	Reed	0.864				
1947	0.506	0.155	Reed	0.530				
1948	0.584	0.169	Frankfurter	0.582				
1949	0.891	0.193	Burton	0.275				
1950	0.915	0.191	Burton	0.431				
1951	0.894	0.211	Burton	0.660				
1952	1.032	0.265	Clark	0.309				
1953	0.567	0.288	Clark	0.699				
1954	0.378	0.303	Frankfurter	0.869				
1955	0.654	0.327	Frankfurter	0.792				
1956	0.492	0.343	Clark	0.499				
1957	0.605	0.364	Clark	0.996				
1958	0.539	0.390	Clark	0.977				
1959	0.426	0.425	Clark	0.943				
1960	0.527	0.460	Stewart	0.947				
1961	0.170	0.497	White	0.499				
1962	-0.757	0.536	Goldberg	0.864				
1963	-0.790	0.563	Brennan	0.678				

THE MEDIAN JUSTICE

Lem	Victim:	Settle	Judice	Promising
1964	-0.525	0.579	Goldberg	0.706
1965	-0.566	0.594	Black	0.895
1966	-0.296	0.610	Black	0.993
1967	-0.841	0.626	Marshall	0.625
1968	-0.781	0.637	Marshall	0.334
1969	0.187	0.652	Black	0.494
1970	0.484	0.660	Harlan	0.446
1971	0.765	0.671	White	1.000
1972	1.026	0.698	White	0.907
1973	0.625	0.715	White	0.615
1974	0.609	0.729	White	0.883
1975	0.580	0.206	Stewart	0.516
1976	0.477	0.218	Stewart	0.673
1977	0.226	0.223	Blackmun	0.560
1978	0.111	0.223	Blackmun	0.893
1979	0.147	0.260	White	0.938
1980	0.075	0.284	White	0.945
1981	0.022	0.298	White	0.981
1982	0.461	0.307	White	1.000
1983	0.728	0.320	White	0.879
1984	0.656	0.331	Powell	0.945
1985	0.773	0.337	Powell	0.982
1986	0.741	0.343	Powell	0.995
1987	0.907	0.357	White	0.795
1988	1.004	0.380	White	0.959
1989	0.779	0.412	White	0.997
1990	0.872	0.493	Souter	0.479
1991	0.618	0.208	Souter	0.343
1992	0.683	0.235	O'Connor	0.680
1993	0.695	0.255	Kennedy	0.770
1994	0.580	0.264	O'Connor	0.561
1995	0.526	0.269	Kennedy	0.740
1996	0.645	0.278	Kennedy	0.739
1997	0.610	0.294	Kennedy	0.919
1998	0.657	0.302	Kennedy	0.574
1999	0.711	0.313	O'Connor	0.901

2000 0.467 0.340 O'Connor 0.992 2001 0.311 0.367 O'Connor 1.000 2002 0.247 0.415 O'Connor

Estimates of the location of the median Justice, the posterior standard deviation (standard error) of the estimate, the Justice with the highest posterior probability of being the median Justice, and their probability of being the median Justice for the 1937-2002 Terms.

Again, we could offer any number of observations about the results displayed in Table 4 but perhaps the most interesting, even surprising, is the high degree of uncertainty surrounding the identity of the median Justice. While it is clear that O'Connor has been at the center in recent years—note the extraordinarily high probabilities of 0.901, 0.992, 1.000 and 0.998 for the 1999-2002 Terms—such certainty about the median's identity is far from a norm: in twelve of the sixtysix Terms we analyzed, the highest probability that any one Justice was the median is less than 0.5; in several Terms, it is as low as 0.3. What these results suggest is that during a non-trivial fraction of the years in our data set (12/66 = 0.182), another Justice(s)—and not merely the so-deemed "median"—played a crucial role in Court decisions.

B. Attractive Features of the Martin-Quinn Approach

To the extent that the "center" of the Court is not always crystal clear, this is an intriguing finding—and one that points to a chief advantage of the Martin-Quinn approach: it enables us to make rational and coherent probability statements about the quantities of interest, such as those pertaining to the identity of the Justice with the highest posterior probability of being the median, along with that probability. For example: "During the 1999 Term, the probability that Justice O'Connor was the median Justice is 0.901; Justice Kennedy held that position with probability 0.099. In other words, O'Connor was nine times more likely than Kennedy to be the pivot in 1999."

But this is not the only attractive feature of the Martin-Quinn method. Recall that among the strongest assets of the Segal-Cover scores is the degree to which they comport with our knowledge of the Justices. We could say precisely the same of the Martin-Quinn method. The following discussion provides but a few examples.

In describing Justice Tom Clark's role in search and seizure

cases, Dorin notes: "Irvine [v. California] marked the end of Clark's close to five years of silence regarding state searches and seizures. He had emerged as a major player in its resolution. Indeed, he had been its 'swing' Justice."79 And, in fact, in 1952 and 1953, Clark emerges, on the Martin-Quinn estimates, as the Justice with the highest posterior probability of having been the median.

Powe writes that "lolnce Arthur Goldberg gave the liberals a solid majority and William J. Brennan, Jr. became the median Justice, the transformed Warren Court turned the New Deal constitutional order into the New Deal-Great Society constitutional order."80 According to the Martin-Quinn estimates, Brennan did indeed emerge as the median shortly after Goldberg joined the Court.

Numerous sources claim that Justice David Souter, upon his ascension to the bench, "established himself as an independent thinker in the middle of the Court's ideological spectrum."81 The Martin-Quinn estimates for the 1990 and 1991 Terms accord with this speculation: Souter was the median Justice.

Virtually all contemporary commentary stresses the critical role Justice O'Connor (and, to a lesser extent, Kennedy) plays on the current Court by casting key votes in many consequential cases.82 The Martin-Quinn approach confirms this commentary, showing that O'Connor has been the Court's median since the 1999 Term.

Of course the Segal-Cover scores also appear facially valid. But on other dimensions important differences exist between the two measures—at least some of which shore up additional benefits of the Martin-Quinn approach. The most obvious, as we already have noted, is that the Martin-Quinn method (but not Segal-Cover) enables us to generate probabilistic claims about our estimates of the

80. Powe, supra note 6, at 651.

^{79.} Dennis D. Dorin, Justice Tom Clark's Role in Mapp v. Ohio's Extension of the Exclusionary Rule To State Searches and Seizures, 52 CASE W. RES. 401, 412 (2001).

^{81.} Christopher E. Smith & Thomas R. Hensley, Unfulfilled Aspirations: The Court-Packing Efforts of Presidents Reagan and Bush, 57 ALB. L. REV. 1111, 1130 (1994); see also Paul M. Barrett, Independent Justice: David Souter Emerges as Reflective Moderate on the Supreme Court, WALL ST. J., Feb. 2, 1993, at A1 (predicting that Justice Souter would become the Court's "moderate center" with the arrival of Clinton-appointed liberals).

^{82.} See, e.g., Editorial, A Moderate Term on the Court, N.Y. TIMES, June 29, 2003, at 12 (noting Justice O'Connor's status as the "court's critical swing vote"); Associated Press, Affirmative Action Case Puts Judges in Spotlight, CHI. TRIB., April 1, 2003, (Magazine), at 36 (describing Justices O'Connor and Kennedy as the "perennial swing voters"); Charles Lane, Supreme Court: On the Sidelines, for Now, WASH. POST, Sept. 30, 2001, at A5 (describing Justice O'Connor as the "perennial swing voter").

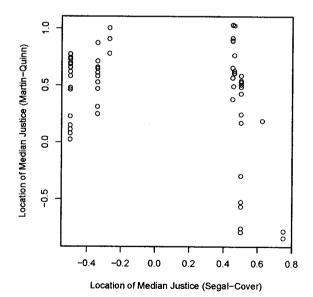
median's location.⁸³ So, while both the Segal-Cover and Martin-Ouinn scores identify David Souter as the median Justice in the 1990 Term,84 to provide but one illustration, the former cannot convey the degree of uncertainty surrounding the choice of Souter. This turns out to be important since the probability that Souter sat at the Court's center in the 1990 Term is a relatively low 0.479 (especially compared, with, say, the 2002 figure for O'Connor of 0.998), meaning that another or other Justices were nearly as central to outcomes.85

NORTH CAROLINA LAW REVIEW

So too and in sharp contrast to the Segal-Cover scores, the Martin-Quinn approach performs well across issue areas. Martin and

83. See supra notes 98-114 and accompanying text.

^{84.} As an aside, it is interesting to consider the overlap (or, more pointedly, the lack thereof) between the Segal-Cover and the Martin-Quinn scores. We already have noted that for the natural court sitting between 1994 and 2002, the Segal-Cover scores identify Souter as the median. See supra note 60. The Martin-Quinn approach, in contrast and in line with virtually all scholarly commentary, points to O'Connor (at least since 1999). Below we show that, overall, only a weak association exists between the two measures. (Note that negative association arises because the Segal-Cover measure is a measure of liberalism while the Martin-Quinn measure is a measure of conservatism.)



Martin-Quinn estimate of the location the median Justice on Segal-Cover measure of the location of the median Justice

Quinn recently demonstrated as much in a paper that re-estimates the model and quantities of interest (including Court medians) eliminating one legal area at a time.86 Unlike the Segal-Cover approach, which, as we noted earlier, has difficulty locating the median outside the civil liberties realm.87 the Martin-Quinn method generally identifies the same Justice as the Court's center regardless of the legal issue at stake in the litigation.88

IV. APPLICATIONS OF THE MARTIN-OUINN ESTIMATES

If we have made a convincing case for the Martin-Quinn estimates of the median, then applications are virtually limitless. Scholars can deploy these estimates to address a range of questions. whether pertaining to intra-organizational issues (such as agenda setting and opinion assignment) or the Court's relationship with the other branches of government, the lower courts, and the states.89 Indeed, any research that has previously invoked votes, party affiliations, or the Segal-Cover scores to locate the median Justice can now employ the Martin-Quinn estimates-and can do so without confronting the substantial drawbacks of those other approaches. So, for example, the Martin-Quinn method does not suffer from the same "circularity" problem that plagues the use of votes: by purging the particular issue area of interest and recomputing the Martin-Quinn estimates, they are perfectly appropriate for use in studies of Court decisionmaking; deploying the estimates in this way, in other words, would not amount to using votes to predict votes.90 By the same token, they are a far more efficient indicator of ideology than party affiliation, and they perform adequately, as we have just noted and in contrast to the Segal-Cover scores, across a range of legal questions.

^{85.} See Appx. I.

^{86.} Andrew D. Martin & Kevin M. Quinn, Can Ideal Point Estimates Be Used as Explanatory Variables?, Washington University in St. Louis typescript (2004), available at http://adm.wustl.edu/supct.php (on file with the North Carolina Law Review).

^{87.} See Epstein & Mershon, supra note 15.

^{88.} The estimated locations of the medians always correlate above 0.9 when deleting an issue at a time; and the method identifies the same Justice as the median Justice eightyseven percent of the time as Court's center regardless of the legal issue at stake in the litigation. See Martin & Quinn, supra note 86. The only differences are in terms where there is much uncertainty about who is the median Justice, such as Justice Burton in 1949. Id.

^{89.} Analysts already have put the Martin-Quinn scores to use to investigate the Court's interactions with Congress. See Barry Friedman & Anna L. Harvey, Electing the Supreme Court, 78 IND. L.J. 123, 134-39 (2003).

^{90.} Martin & Quinn introduce this approach. See Martin & Quinn, supra note 86. On the other hand, this paper demonstrates that as an empirical issue, it matters not if scholars invoke the purged estimates or those based on all votes.

In light of space limitations, we leave it to others to flesh out fully applications of the Martin-Quinn estimates. We focus instead on demonstrating how we might employ the estimates to examine two emerging pieces of wisdom about the Court; namely, that (1) the Court, particularly Justice O'Connor, has moved to the "left" or, at least, has grown more moderate in recent Terms and (2) the next President will be able to "remake" the Court.

A. A More Moderate Court (O'Connor)?

In a recent newspaper article, the long-time Court commentator, Joan Biskupic wrote that "[a]lthough [Justice] O'Connor usually votes with the court's conservative wing, she increasingly has sided with liberals in significant cases that have been decided by 5-4 votes. It's led some conservative observers to wonder whether O'Connor, at 74, is turning to the left."91

To the extent that many commentators—regardless of their ideological, epistemological, or methodological orientation—seem to think that O'Connor and, thus, the Court itself has grown more moderate over time, Biskupic is correct.92 They, like Biskupic, point to recent Court decisions upholding Michigan Law School's use of race in admissions,93 the Family Medical Leave Act,94 and parts of the McCain-Feingold campaign finance act,95 not to mention the eradication of Texas's sodomy law in Lawrence v. Texas. 6 In all four,

O'Connor was in the majority and likely critical for the creation of the prevailing coalitions at that. But to what extent can we generalize from these cases? Do they represent a significant turn to the left on the part of the Court (O'Connor) or mere anomalies, though hardly inconsequential ones?

To explore these questions, we used the Martin-Quinn estimates to plot, in Figure 6, the ideal points of Sandra Day O'Connor and of the median Justice (solid black circles indicate the overlap) over the last two decades. We also show the "cutpoint" for Grutter v. Bollinger, 97 such that during Terms above the line, the odds are that the Court would have struck down the Michigan affirmative action program and during Terms below it, the Court, in all likelihood, would have upheld it (as it did in the 2002 Term).98

From this figure we can lend systematic support to the informed speculation that O'Connor (the Court) has taken a turn to the left. Note that O'Connor's line appears to drift downward, indicating increased liberal voting on her part. To be more precise, at the start of the current natural court era in 1994, O'Connor's ideal point sat at a relatively conservative 0.637; by the 2002 Term, it had moved to 0.247. By any measure this is quite an impressive shift but, we hasten to note, we should not take it to mean that O'Connor is now a downright liberal. She is still quite a distance from the most leftleaning Justice in our data (William O. Douglas in the 1974 Term with a score of -6.31).99 She is also far from the most liberal median since 1937; that distinction belongs to Stanley F. Reed in the 1939 Term (with a score of -0.978). On the other hand, the leftward trend in the data is so unmistakable that it is hard to deny claims in recent writings about the emergence of a more moderate Supreme Court.

Figure 6 is interesting in its own right if only because it provides empirical evidence of the veracity of contemporary characterizations of the Court. But our results also have implications both for empirical and doctrinal analyses of judicial decisionmaking. From an empirical standpoint, as we noted earlier, they draw attention to the utility of the "natural court" as a conceptual and analytic device. Our findings also may call into question an assumption underlying many

^{91.} Joan Biskupic, O'Connor Not Confined by Conservatism, USA TODAY, June 24, 2004, at 4A.

^{92.} See, e.g., Lino A. Graglia, The Myth of a Conservative Supreme Court: The October 2000 Term, 26 HARV. J.L. & PUB. POL'Y 281, 311-13 (2003) (arguing that the Rehnquist Court is more activist to the left than the right); Christopher E. Smith & Madhavi McCall, Criminal Justice and the 2001-02 United States Supreme Court Term, 2003 MICH. ST. L. REV. 413, 418 (2003) ("In the [2001-02] term . . . Sandra Day O'Connor, joined her more liberal colleagues to form five-member majorities in all three closelydivided decisions favoring claims of individuals."); Alex Daniels, RETAIL: Unbridled Court to Rule on Size of Wal-Mart Suit, ARK. DEMOCRAT-GAZETTE, Aug. 8, 2004 ("In past years... the 9th was overturned more often than other circuits. Last term's results might indicate the circuit is getting more moderate . . . Also, it could mean the Supreme Court is issuing more liberal-leaning decisions."); Charles Lane, Courting O'Connor; Why the Chief Justice Isn't the Chief Justice, WASH. POST, July 4, 2004, (Magazine), at W10 ("The Michigan cases erased much of the animosity liberals harbored against O'Connor for Bush v. Gore-and enraged the right."); Charles Rothfeld, The Court on Balance; By Sometimes Leaning Left, Justice O'Connor Centers the Supreme Court, LEGAL TIMES, July 12, 2004, at 52 ("The liberals . . . dominated in the eight civil cases decided by 5-4 votes, winning six of them. O'Connor voted with the liberal majority in four of these cases.").

^{93.} Grutter v. Bollinger, 539 U.S. 306 (2003).

^{94.} Nev. Dep't of Human Res. v. Hibbs, 538 U.S. 721 (2003).

^{95.} McConnell v. Fed. Election Comm'n, 540 U.S. 93 (2003).

^{96. 539} U.S. 558 (2003).

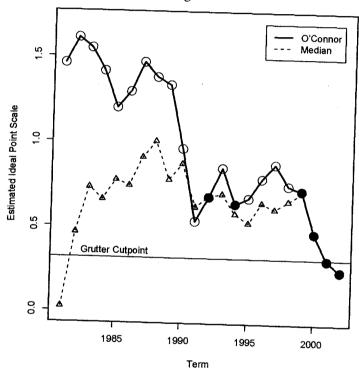
^{97. 539} U.S. 306 (2003).

^{98.} The cutpoint is the point in the ideological space that is halfway between the policy position of an affirm vote and a reverse vote. A Justice whose ideal point is at the cutpoint is indifferent between the two outcomes. A bit of algebra reveals that the cutpoint is a simple function of the α and β parameters introduced in Section IV.

^{99.} In the Appendix to this Article, we supply Martin-Quinn estimates of the ideal points of all Justices for all terms between 1937 and 2002.

theories of decisionmaking; namely, that the Justices' policy preferences remain stable over time. 100 A mere glance at Figure 6's depiction of the median's ideal point during the 1994–2002 Terms and of O'Connor's across the entire period should dispel any doubt that fluctuation, and significant fluctuation at that, is possible.

Figure 6



Time series plot of Justice O'Connor's and the median's estimated ideal point, 1981–2002 Terms. The solid black circles indicate that Justice O'Connor is most likely the median Justice. The horizontal line indicates the cutpoint for *Grutter v. Bollinger* such that points above the line indicate a probability of greater than 0.50 of voting to strike down the program; those below the line indicate a greater than 0.50 probability of voting to uphold the program (as the Court did in the 2002 Term).

From a doctrinal perspective, O'Connor's (and the Court's) turn to the left is more than a mere aggregation of votes and probabilities: it has been of some consequence at the individual case level as well. We illustrate just one example with the horizontal line in Figure 6 indicating the Grutter cutpoint (again, points north of the line indicate a probability of greater than 0.50 of voting against the program; those south of the line indicate a greater than 0.50 probability of voting for the program). Notice that in 1994, at the start of the current natural Court era, the probability of the Court supporting the Michigan Law affirmative action program was just 0.318. Only in 2001 and 2002 did that figure increase to 0.500 or greater. To think about it another way, the likelihood of O'Connor providing the key vote to uphold the program was quite small for any Term prior to 2001: for example, in the 1999 Term it was a slim 0.228; the probability increased to 0.387 in 2000, but only beginning in 2001 did it surpass the 0.500 mark (0.507 in 2001 and 0.504 in 2002).

B. A New Court?

The critical role O'Connor plays on the current Court has not, as we have emphasized throughout, gone unnoticed. Earlier this year Forbes Magazine ranked her as the sixth most powerful woman in America, right behind Hillary Rodham Clinton;¹⁰¹ and just this past winter Michael S. Greve quipped that "[i]t's Sandra Day O'Connor's country; the rest of us just dance to her fiddle."¹⁰²

But for how much longer? In light of O'Connor's age (seventy-four)¹⁰³ and the length of her service on the Court (twenty-three years)¹⁰⁴ rumors about a possible retirement abound.¹⁰⁵ Along with

^{100.} For more on this point, see Martin & Quinn, supra note 17; Lee Epstein et al., Do Political Preferences Change? A Longitudinal Study of U.S. Supreme Court Justices, 60 J. POL. 801, 801–02 (1998).

^{101.} Elizabeth MacDonald & Chana R. Schoenberger, *The World's 100 Most Powerful Women* (Aug. 20, 2004), *at* http://www.forbes.com/2004/08/18/04powomland.html (on file with the North Carolina Law Review).

^{102.} Michael S. Greve, *The Term the Constitution Died*, 2 GEO. J.L. & PUB. POL'Y 227, 227 (2004).

^{103.} Justice O'Connor was born on March 26, 1930. 2 JOAN BISKUPIC & ELDER WITT, GUIDE TO THE U.S. SUPREME COURT 956 (3d ed. 1997).

^{104.} Justice O'Connor was nominated to the Court by Ronald Reagan on August 19, 1981 and confirmed by the Senate on September 21, 1981. *Id.*

^{105.} See, e.g., Geo Beach, Real Alaskans Like Political Wild Cards, ANCHORAGE DAILY NEWS (Alaska), Aug. 14, 2004, at B6 ("Sandra Day O'Connor is only [sic] 70, but she's been fighting a cancer and may also be considering retirement."); Michael Kirkland, Analysis: Peering Into the High Court's Future, Aug. 27, 2004, LEXIS, Nexis Library, News file (stating that the "the 74-year-old O'Connor has been the subject of retirement rumors for years"); Ana Radelat, Federalists Could Have More Influence on the Supreme Court, GANNETT NEWS SERVICE, Mar. 26, 2004, LEXIS, Nexis Library, News file ("Retirement rumors... have swirled around... Sandra Day O'Connor, 74."); Thomas B.

the rumors has come a good deal of speculation about the fundamental changes an O'Connor departure would bring to extant law and policy. As one commentator put it, "[i]f O'Connor steps down it would be the judicial equivalent of an earthquake. Replacing her with either a consistent conservative or liberal would affect the majorities on a broad range of issues." 106

Both the Kerry and Bush camps apparently agreed and attempted to convince voters to make the speculation a part of their calculus. But to what extent does it hold? In particular, if O'Connor (or now, more likely, Rehnquist) resigns within the next four years, will George W. Bush have an opportunity to "remake" the Court, that is, push it further to the right? To what extent does his ability do so hinge on a Republican-controlled Senate, which Bush managed to maintain in the wake of the 2004 elections but plausibly could see vanish in 2006? Finally, by losing to Bush in the recent presidential contest, what opportunities to change the direction of the Court did the Democrats forego?

We explore these questions in Figure 7, in which we offer four plots—one a piece for O'Connor and Rehnquist, 108 the Justices of primary interest here, along with the two others over the age of seventy: 109 Stevens (eighty-four) 110 and Ginsburg (seventy-one) 111. In

Scheffey, CONN. LAW TRIB., Mar. 29, 2004, LEXIS, Nexis Library, News file ("Sandra Day O'Connor [is] believed close to retirement.").

1312

each panel, the horizontal axis is the predicted location of the ideal point of the median Justice, such that the lower (negative) numbers indicate liberal medians and the higher (positive) numbers indicate conservative medians. The dashed line denotes the current position of the median Justice (Sandra Day O'Connor); the black dots indicate the predicted (new) location of the median Justice contingent upon the ideology of the key players involved in the appointment and confirmation of Supreme Court Justices: the President and the Senate.

To see how these plots facilitate the development of predictions about the effect Bush may have (and Kerry might have had) on the Court, consider the Stevens and Ginsburg panels (which return identical results). Notice that should either retire the Court's median would not have budged had Kerry become President. Nor do we foresee a change under a Bush administration and a Democratic Senate. Under current circumstances, however, with both the executive branch and the Senate under Republican control, odds are that the median will move considerably. In fact, the resulting Court could very well go on to become the most right-leaning since 1952 (a median location of 0.869 in, e.g., 2005 versus 1.031 in the 1952 Term.)

The prediction works in the reverse for Rehnquist. If he leaves during a Bush presidency and a Republican-dominated Senate, as might well be the case, we anticipate little change in the median Justice and, thus, the outcomes of Court cases. But, should the Chief retire during a period of divided government (e.g., a Bush presidency and a Democratic Senate) or should he leave under a Democratic administration, we forecast substantial change: the après-Rehnquist Court might have emerged as among the most liberal in recent memory, with a median in the neighborhood of -0.8 (depending on assumptions about the precise location of the Senate) versus -0.841 in 1967, the most liberal Term since 1950.

^{106.} Kirkland, supra note 105.

^{107.} See C.T. Revere, Campaign 2004, TUCSON CITIZEN, May 1, 2004, LEXIS, Nexis Library, News file. Revere points to a Kerry television commercial warning voters that the Court is just "one vote away from outlawing a woman's right to choose." The ad, according to a Kerry spokesperson, is "based on the potential impact of the retirement of Arizona native Sandra Day O'Connor, who is considered a swing vote on the abortion issue." Id.

^{108.} Rehnquist was born on October 1, 1924. BISKUPIC & WITT, supra note 103, at 954.

^{109.} By plotting the four oldest Justices we do not mean to suggest that age is the only or even chief factor motivating a retirement decision. In fact, some commentary suggests that strategic considerations are paramount; i.e., Justices consider who will replace them when deciding whether or not to step down from the bench. See, e.g., Kirkland, supra note 106 ("Whether [Rehnquist] retires in the next four years probably will be determined by whether President George W. Bush or a putative President John F. Kerry gets the chance to replace him."). This is an interesting idea but one that deserves far more careful consideration than we could possibly devote to it here. Our purpose instead is to consider several possible scenarios—a category into which departures by O'Connor, Stevens, Rehnquist, and Ginsburg surely fall. Savage makes this clear when he points to these four as the leading candidates: "Justice Ruth Bader Ginsburg, 71, has battled cancer since 1999. Justice John Paul Stevens is 84. Chief Justice William Rehnquist, 79, and Justice Sandra Day O'Connor, 74, are said to have eyed retirement for several years." Charlie Savage, Next Administration Could Get To Name 4 Justices, BOSTON GLOBE, July 7, 2004,

at A3. More recently, speculation has centered almost exclusively on Rehnquist in light of his battle with thyroid cancer.

^{110.} Stevens was born on April 20, 1920. Id. at 955.

^{110.} Stevens was born on March 15, 1933. *Id.* at 961.

Figure 7¹¹²

-1.0 -0.5 0.0 0.5 1.0 Rehnquist Retires Stevens Retires Bush / Rep. Sen. Bush / Dem. Sen. Kerry / Rep. Sen. Kerry / Dem. Sen. Ginsburg Retires O'Connor Retires Bush / Rep. Sen. Bush / Dem. Sen. Kerry / Rep. Sen. Kerry / Dem. Sen. -1.0 -0.5 0.0 0.5 1.0 Location of the Court Median

Predicted location of the median Justice for a vacancy on the Supreme Court. The horizontal axis is the predicted location of the ideal point of the median Justice, such that the lower (negative) numbers indicate liberal medians and the higher (positive) numbers indicate conservative medians. The dashed line denotes the current position of the median Justice (Sandra Day O'Connor); the black dots indicate the predicted (new) location of the median Justice contingent upon the ideology of the President and the Senate. We estimated these positions using Sala and Spriggs's method.

In the case of a Rehnquist retirement, then, continuity—and not change—is likely to result, assuming the Chief leaves sooner rather than later. This is not true of Sandra Day O'Connor. Under no

circumstances that we considered will the median remain "as is" should she retire; actually, as Figure 7 depicts, rather substantial ideological swings are quite likely. Some are entirely predictable; for example, had the Democrats regained control of the Senate and the presidency, Kerry quite possibly could have pushed the Court to near-record levels of liberalism. Now, under a unified Republican government, Bush could do the same except, of course, in the opposite direction. But at least one result is unexpected: Under a Bush presidency and a Democratic Senate (say, in 2007), odds are that the Court's median will move—though to the *left*, *not the right* (from its current location of 0.247 to -0.700).

So to return to the question we posed at the outset: will a Sandra Day O'Connor departure provide the next President with an opportunity to remake the Court? Our response is clearly in the affirmative for the Democrats. Regardless of the composition of the Senate, the data suggest that had Kerry won the election he would have been in the near-historic position to move the Court-and, crucially, to move the Court in a direction that favored his vision of public policy. To the extent that O'Connor's retirement may enable Bush too to move the Court, he is in much the same position as Kerry would have found himself-with one very critical distinction: only with a Republican Senate in play will Bush, in all likelihood, be able to shape it in a way that reflects his political preferences. Should the Democrats gain a majority in the Senate, an O'Connor retirement ought not be at the top of Bush's wish list, as a more liberal Court is likely to result. Far better off from the current President's perspective would be a Stevens or Ginsburg resignation, which would result in the status quo or a more right-leaning Court depending on the composition of the Senate.

CONCLUSION

Theorizing and analyzing the Court's "center" could take many forms. We have considered but one approach to each: a conceptualization that relies on social science theories about the importance of the median voter and a method that enables us to estimate the identity of that voter and her location, and to quantify the degree of uncertainty we have about those estimates.

Without belying the importance of other approaches—be they jurisprudential, doctrinal, interpretive, statistical, or mathematical—we hope ours has something to offer to the study of centrist judges. We worked to demonstrate as much via two applications, the first of which confirmed the received wisdom about the Court's

^{112.} See Brian R. Sala & James F. Spriggs, II, Designing Tests of the Supreme Court and the Separation of Powers, POL. RES. Q. (June 2004).

(O'Connor's) turn to the left. The second offered a more nuanced response: an O'Connor departure would, in all likelihood, generate real change on the Court though perhaps in unexpected ways.

These are but two applications of the Martin-Quinn estimates; we can conjure up many other possibilities and we trust other investigators can do the same. More than that we hope the method we presented here proves useful for the study of all Justices and not exclusively for analyses of the median. To that end we have included an appendix that houses estimates of the ideal points of each and every Justice who has served since the 1937 Term. Potential uses for these scores, we believe, are highly variegated. Studies of the effect of public opinion, the economy, and crime (to name but a few socio-legal factors) on the decisions of particular Justices, along with investigations into agenda setting, opinion assignment, and the many other processes internal to the Court are just some of the possibilities—as are, of course, any number of normative and empirical projects related to the crucia projects and everintriguing "center" of the Court.

^{113.} We encourage scholars to check the website http://adm.wustl.edu/supct.php for updates; the 2003 Term data should be available by December 2004.

red a more nuanced likelihood, generate pected ways.

tin-Quinn estimates; and we trust other we hope the method fall Justices and not and we have included points of each and m. 113 Potential uses ited. Studies of the to name but a few Justices, along with ment, and the many just some of the of normative and nportant and ever-

APPENDIX: MARTIN-QUINN SCORES FOR ALL JUSTICES, 1937–2002

APPENDIX:	MAKI	IN-Q	PINIC	SCOKESTOR		0011	C20,	
The same	lativo	18-0		Section	940	Term.	Jacon	M-Q
1937	Black	-2.852	1942	Frankfurter	0.416	1985	Rehnquist	3.375
1938	Black	-3.126	1943	Frankfurter	0.420	1986	Rehnquist	3.139
1939	Black	-3.206	1944	Frankfurter	0.406	1987	Rehnquist	2.732
1940	Black	-3.229	1945	Frankfurter	0.661	1988	Rehnquist	2.597
1941	Black	-3.113	1946	Frankfurter	1.015	1989	Rehnquist	2.421
1942	Black	-2.850	1947	Frankfurter	0.894	1990	Rehnquist	2.173
1943	Black	-2.525	1948	Frankfurter	0.637	1991	Rehnquist	1.876
1944	Black	-2.409	1949	Frankfurter	0.363	1992	Rehnquist	1.816
1945	Black	-2.029	1950	Frankfurter	0.225	1993	Rehnquist	1.636
1946	Black	-1.850	1951	Frankfurter	0.074	1994	Rehnquist	1.641
1947	Black	-1.726	1952	Frankfurter	0.051	1995	Rehnquist	1.616
1948	Black	-1.580	1953	Frankfurter	0.370	1996	Rehnquist	1.477
1949	Black	-1.625	1954	Frankfurter	0.370	1997	Rehnquist	1.426
1950	Black	-1.584	1955	Frankfurter	0.679	1998	Rehnquist	1.625
1951	Black	-1.473	1956	Frankfurter	0.875	1999	Rehnquist	1.574
1952	Black	-1.177	1957	Frankfurter	1.246	2000	Rehnquist	1.567
1953	Black	-1.514	1958	Frankfurter	1.561	2001	Rehnquist	1.298
1954	Black	-1.575	1959	Frankfurter	1.720	2002	Rehnquist	1.073
1955	Black	-1.855	1960	Frankfurter	1.789	1937	Roberts	-0.037
1956	Black	-2.037	1961	Frankfurter	1.800	1938	Roberts	0.370 1.012
1957	Black	-2.095	1993	Ginsburg	-0.303	1939	Roberts	1.689
1958	Black	-1.980	1994	Ginsburg	-0.555	1940	Roberts	1.884
1959	Black	-1.943	1995	Ginsburg	-0.624	1941	Roberts	2.141
1960	Black	-1.815	1996	Ginsburg	-0.830	1942	Roberts Roberts	2.518
1961	Black	-1.721	1997	Ginsburg	-1.047	1943	Roberts	2.883
1962	Black	-1.639	1998	Ginsburg	-1.272	1944	Rutledge	-1.079
1963	Black.	-1.416	1999	Ginsburg	-1.613	1942 1943	Rutledge	-1.118
1964	Błack	-0.936	2000	Ginsburg	-1.679 -1.677	1944	Rutledge	-1.280
1965	Black	-0.576	2001	Ginsburg	-1.642	1945	Rutledge	-1.097
1966	Black	-0.295	2002	Ginsburg	-0.770	1946	Rutledge	-1.343
1967	Black	-0.092	1962	Goldberg Goldberg	-0.907	1947	Rutledge	-1.677
1968	Black	0.001	1963	Goldberg	-0.561	1948	Rutledge	-1.764
1969	Black	0.086	1964 1954	Harlan	0.869	1986	Scalia	1.378
1970	Black	0.063	1955	Harlan	1.090	1987	Scalia	1.526
1970	Blackmun	1.850		Harlan	1.305	1988	Scalia	1.657
1971	Blackmun	1.805	1956	Harlan	1.596	1989	Scalia	1.835
1972	Blackmun	1.455	1957		1.724	1990	Scalia	1.985
1973	Blackmun	1.307	1958 1959		1.856	1991	Scalia	2.300
1974	Blackmun	1.029 0.856			1.944	1992	Scalia	2.318
1975	Blackmun	0.633			2.236	1993	Scalia	2.401
1976	Blackmun	0.262			2.461	1994	Scalia	2.649
1977	Blackmun	0.202	1 702					

n.wustl.edu/supct.php for 104.

Term	EMILO	MeQ	Ten	Jugica	M-U	(470)	Desilies 15	2.025
1978	Blackmun	0.105	1963	Harlan		1995	Scalia	2.925
1979	Blackmun	-0.069	1964	Harlan		1996	Scalia	3.184
1980	Blackmun	-0.153	1965	Harlan	2.153	1997	Scalia	3.321
1981	Blackmun	-0.469	1966	Harlan	1.840	1998	Scalia	3.570
1982	Blackmun	-0.543	1967	Harlan	1.286	1999	Scalia	3.696
1983	Blackmun	-0.093	1968	Harlan	0.778	2000	Scalia	3.707
1984	Blackmun	-0.218	1969	Harlan	0.663	2001	Scalía	
1985	Blackmun	-0.765	1970	Harlan	0.569	2002	Scalia	3.613 0.942
1986	Biackmun	-0.928	1937	Hughes	-0.434	1990	Souter	0.558
1987	Blackmun	-0.930	1938	Hughes	-0.289	1991	Souter	0.156
1988	Blackmun	-0.963	1939	Hughes	0.299	1992	Souter	-0.359
1989	Blackmun	-0.845	1940	Hughes	0.832	1993	Souter	-0.508
1990	Blackmun	-1.148	1941	Jackson	0.225	1994	Souter	-0.541
1991	Blackmun	-1.393	1942	Jackson	0.269	1995	Souter	-0.582
1992	Blackmun	-1.542	1943	Jackson	0.184	1996	Souter	-0.731
1993	Blackmun	-1.806	1944	Jackson	0.231	1997	Souter Souter	-0.847
1937	Brandeis	-0.514	1945	Jackson	0.634	1998	Souter	-1.188
1938	Brandeis	-0.474	1946	Jackson	1.026	1999	Souter	-1.304
1956	Brennan	-0.590	1947	Jackson	1.156	2000		-1.392
1957	Brennan	-0.714	1948	Jackson	1.297	2001	Souter	-1.386
1958	Brennan	-0.712	1949	Jackson	0.898	2002	Souter	0.035
1959	Brennan	-0.868	1950	Jackson	0.785	1975	Stevens	-0.125
1960	Brennan	-0.874	1951	Jackson	0.707	1976	Stevens	-0.015
1961	Brennan	-0.728	1952	Jackson	0.924	1977	Stevens	-0.291
1962	Brennan	-0.967	1953	Jackson	0.840	1978	Stevens	-0.268
1963	Brennan	-0.825	1987	Kennedy	1.112	1979	Stevens	-0.265
1964	Brennan	-0.685	1988	Kennedy	1.385	1980	Stevens	-0.250
1965	Brennan	-0.844	1989	Kennedy	1.290	1981	Stevens	-0.546
1966	Brennan	-0.994	1990	Kennedy	1.090	1982	Stevens	-0.593
1967	Brennan	-1,039	1991	Kennedy	0.732	1983	Stevens	-0.487
1968	Brennan	-0.911	1992	Kennedy	0.878	1984	Stevens	-0,468
1969	Brennan	-0.830	1993	Kennedy	0.719	1985	Stevens	-0.578
1970	Brennan	-0.932	1994	Kennedy	0.666	1986	Stevens	-0,509
1971	Brennan	-1.088	1995	Kennedy	0,555	1987	Stevens	-0.631
1972	Brennan	-1.351	1996	Kennedy	0.672	1988	Stevens	-1,026
1973	Brennan	-1.675	1997	Kennedy	0.617	1989	Stevens	-1.713
1974	Brennan	-1.951	1998	Kennedy	0.715	1990	Stevens	-2.088
1975	Brennan	-2.528	1999	Kennedy	0.951	1991	Stevens	-2.249
1976	Brennan	-2.809	2000	Kennedy	0.888	1992		-2.451
1977	Brennan	-2.918		Kennedy	1.011	1993	Stevens Stevens	-2.802
1978	Brennan	-2.894		Kennedy	0.902	1994	Stevens	-3.021
1979	Brennan	-2.853		Marshall	-0.898	1995		-3.118
1980	Brennan	-2.693		Marshall	-0.911	1996	Stevens	-3.116
1981	Brennan	-2.672	1969	Marshall	-0.848	1997	Stevens	-5.012

IEW

2005]

100/44	940
Scalia	2.925
Scalia	3.184
Scalia	3.321
Scalia	3.397
Scalia	3.570
Scalia	3.696
Scalia	3.707
Scalia	3.613
Souter	0.942
Souter	0.558
Souter	0.156
Souter	-0.359
Souter	-0.508
Souter	-0.541
Souter	-0.582
Souter	-0.731
Souter	-0.847
Souter	-1.188
Souter	-1.304
Souter	-1.392
Souter	-1.386
Stevens	0.035
Stevens	-0.125
Stevens	-0.015
Stevens	-0.291
Stevens	-0.268
Stevens	-0.265
Stevens	-0.250
Stevens	-0.546
Stevens	-0.593
Stevens	-0.487
Stevens	-0.468
Stevens	-0.578
Stevens	-0.509
Stevens	-0.631
Stevens	-1.026
Stevens	-1.713
Stevens	-2.088
Stevens	-2.249
Stevens	-2.451
Stevens	-2.802
Stevens	-3.021
Stevens	-3.118
Stevens	-3.072
	-

				1.00				
1002	Brennan	-2.504	1970	Marshall	-0.883 1	998	Stevens	-3.021
1982	Brennan		1971	Marshali	-0.983 1	999	Stevens	-2.931
1983	Brennan		1972	Marshall	-1.277	2000	Stevens	-2.789
1984	Brennan		1973	Marshall	-1.444	2001	Stevens	-2.715
1985		-3.370	1974	Marshall	-1,473	2002	Stevens	-2.616
1986	Brennan	-3.443	1975	Marshall	2.041	1958	Stewart	0.883
1987	Brennan Brennan	-3.538	1976	Marshall	-2.341	1959	Stewart	0.651
1988		-3.582	1977	Marshall	-2.626	1960	Stewart	0.531
1989	Brennan	-0.474	1978	Marshall	-3.002	1961	Stewart	0.483
1994	Breyer	-0.705	1979	Marshall	-3.262	1962	Stewart	0.651
1995	Breyer	-0.947	1980	Marshall	-3.437	1963	Stewart	0.484
1996	Breyer		1981	Marshall	-3.555	1964	Stewart	0.647
1997	Breyer	-1.022	1982	Marshall	-3.722	1965	Stewart	0.829
1998	Breyer	-1.009	1983	Marshall	-3.770	1966	Stewart	0.907
1999	Breyer	-0.993	1984	Marshall	-3.838	1967	Stewart	0.468
2000	Breyer	-1.356	1985	Marshall	-3.913	1968	Stewart	0.662
2001	Breyer	-1.383	1986	Marshall	-4.093	1969	Stewart	0.623
2002	Breyer	-1.400		Marshall	-4.238	1970	Stewart	0.604
1969	Burger	1.941	1987	Marshall	-4.310	1971	Stewart	0.210
1970	Burger	2.185	1988	Marshall	-4.284	1972	Stewart	0.189
1971	Burger	2.425	1989	Marshali	-4.124	1973	Stewart	0.543
1972	Burger	2.238	1990	McReynolds	2.813	1974	Stewart	0.409
1973	Burger	2.171	1937	McReynolds	2.814	1975	Stewart	0.529
1974	Burger	2.107	1938	McReynolds	2.576	1976	Stewart	0.483
1975	Burger	1.968	1939	McReynolds	2.059	1977	Stewart	0.314
1976	Burger	1.869	1940	Minton	1.120	1978	Stewart	0.544
1977	Burger	1.546	1949	Minton	1.274	1979	Stewart	0.476
1978	Burger	1.408	1950	Minton	1.331	1980	Stewart	0.656
1979	Burger	1.174	1951	Minton	1.156	1937	Stone	-0.780
1980	Burger	1.346	1952	Minton	0.818	1938	Stone	-0.750
1981	Burger	1.464	1953	Minton	0.845	1939	Stone	-0.752
1982	Burger	1.321	1954	Minton	0.889	1940	Stone	-0.308
1983	Burger	1.498	1955 1939	Murphy	-1.528	1941	Stone	0.404
1984	Burger	1.820	1940	Murphy	-1.484	1942	Stone	0.267
1985	Burger	1.957		Murphy	-1.435	1943	Stone	0.172
1945	Burton	0.485	1941	Murphy	-1.579	1944	Stone	0.514
1946	Burton	0.538	1942	Murphy	-1.671	1945	Stone	0.573
1947	Burton	0.873	1943	Murphy	-1.392	1937	Sutherland	1.966
1948	Burton	0.942		Murphy	-1.283	1991	Thomas	2.605
1949	Burton	0.933		Murphy	-1.705	1992	Thomas	2.854
1950	Burton	0.949		Murphy	-1.643	1993	Thomas	3,190
1951	Burton	0.893		Murphy	-1.523	1994	Thomas	3.363
1952	Burton	1.185		O'Connor	1.461	1995	Thomas	3.437
1953	Burton	1.27			1.610	1996	Thomas	3.513
1954	Burton	1.24) 1982	O'Connor	1.010	.,,,		

							Parties	
<u> Tore</u>	Justice	M-Q	9.20	ARTINES.	1.549	1997	Thomas	3.523
1955	Burton		1983	O'Connor		1998	Thomas	3.556
1956	Burton	1.242	1984	O'Connor		1999	Thomas	3.493
1957	Burton	1.096	1985	O'Connor		2000	Thomas	3.533
1937	Butler	1.762	1986	O'Connor		2001	Thomas	3.500
1938	Butler	2.015	1987	O'Connor			Thomas	3.637
1941	Byrnes	-0.180	1988	O'Connor		2002	Vinson	0.427
1937	Cardozo	-1.684	1989	O'Connor	1.336	1946	Vinson	0.569
1949	Clark	1.002	1990	O'Connor	0.961	1947	Vinson	0.864
1950	Clark	1.050	1991	O'Connor	0.533	1948		1.072
1951	Clark	1.143	1992	O'Connor	0.677	1949	Vinson	1.180
1952	Clark	1.097	1993	O'Connor	0.849	1950	Vinson	1.386
1953	Clark	0.579	1994	O'Connor	0.637	1951	Vinson	
1954	Clark	0.164	1995	O'Connor	0.672	1952	Vinson	1.301
1955	Clark	0.071	1996	O'Connor	0.788	1953	Warren	0.013
1956	Clark	0.257	1997	O'Connor	0.875	1954	Warren	-0.433
1957	Clark	0.606	1998	O'Connor	0.748	1955	Warren	-1.03
1958	Clark	0.540	1999	O'Connor	0.720	1956	Warren	-1.19
1959	Clark	0.429	2000	O'Connor	0.468	1957	Warren	-1.45
1960	Clark	0.782	2001	O'Connor	0.311	1958	Warren	-1.50
1961	Clark	0.407	2002	G'Connor	0.247	1959	Warren	-1.46
1962	Clark	0.207	1971	Powell	1.482	1960	Warren	-1.30
1963	Clark	0.183	1972	Powell	1.270	1961	Warren	-1.3
1964	Clark	0.020	1973	Powell	1.221	1962	Warren	-1.2
1965	Clark	-0.051	1974	Powell	1.117	1963	Warren	-1.2
1966	Clark	0.079	1975	Poweil	0.938	1964	Warren	-1.0
1938	Douglas	-2.598	1976	Powell	0.703	1965	Warren	-1.0
1939	Douglas	-2.813	1977	Powell	0.443	1966	Warren	-1.3
1940	Douglas	-2.938	1978	Powell	0.784	1967	Warren	-1.1
1941	Douglas	-2.878	1979	Powell	0.787	1968	Warren	-1.
1941	Douglas	-2.575	1980	Poweli	0.803	1961	White	-0.0
	Douglas	-2.205	1981	Powell	0.873	1962	White	-0.
1943	Douglas	-1.805	1982	Powell	1.074	1963	White	0.
1944	Douglas	-1.632	1983	Powell	0.934	1964	White	-0.
1945	Douglas	-1.351	1984	Powell	0.661	1965	White	-0
1946	Douglas	-1.464		Powell	0.774	1966	White	0
1947		-1.679		Poweli	0.742	1967	White	0
1948	Douglas	-1.530		Reed	-0.959	1968	White	0
1949	Douglas	-1,400		Reed	-1.057	1969	White	(
1950	Douglas	-1,400		Reed	-0.978	1970	White	(
1951	Douglas			Reed	-0.609	1971	White	
1952	Douglas	-2.24		Reed	-0.222	1972	White	
1953	Douglas	-2.843		Reed	0.182		White	
1954	Douglas	-3.42		Reed	0,034		White	
1955	Douglas	-3.87		Reed	-0.197		White	
1956	Douglas	-4.26	0 1944	Veen	0,237			