Does the Readability of Your Brief Affect Your Chance of Winning an Appeal?—An Analysis of Readability in Appellate Briefs and Its Correlation with Success on Appeal

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DOES THE READABILITY OF YOUR BRIEF AFFECT YOUR CHANCE OF WINNING AN APPEAL?—AN ANALYSIS OF READABILITY IN APPELLATE BRIEFS AND ITS CORRELATION WITH SUCCESS ON APPEAL

Lance N. Long and William F. Christensen*

I. INTRODUCTION

The short answer is “no”—at least if by “readability” you mean readability as judged by two of the several well-recognized readability formulas developed by researchers during the past fifty or sixty years.1 Using the Flesch Reading Ease scale and the Flesch-Kincaid Grade-Level scale, we analyzed the readability of 882 state, federal, and United States Supreme Court briefs and found no statistically significant relationship between the readability of those briefs and success on appeal. This is good news for those who would like to believe that appeals are decided on the merits of a case and that the success of an appeal is not influenced by the “readability” of a brief or any other writing convention, for that matter. It is also good news for critics of readability formulas, who may believe either that such formulas are fundamentally flawed2 or that such formulas have little to do with legal writing.3 It provides readability critics with yet another argument for disregarding readability analyses (even if readability is valid, it doesn’t make a quantifiable difference). On the other hand, this may be less welcome news for legal writing professionals who may want to believe that the likelihood of success on appeal can be increased by writing a more “readable” brief and that a computerized readability formula can provide a basis for determining readability.4

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1 See discussion infra Part II.
2 See infra note 28.
3 See infra note 39.
4 Of course, not all legal writing professionals share this belief. In particular, Professor
Our study was an attempt to determine whether using long sentences and long words correlates with success on appeal. The Flesch readability formulas that we used in our study measure precisely those two elements. We were not particularly concerned about whether readability formulas accurately measure the appropriateness of a particular text for a particular reader. Appellate briefs, no matter how readable or unreadable they may be, are read by a highly educated audience. But even for highly educated readers, it is generally easier to read shorter sentences and shorter words. Could this possibly make a difference in the outcome of an appeal?

Our study suggests that the length of sentences and words, which is “readability” for our purposes, probably does not make much difference in appellate brief writing. First, we found that most briefs are written at about the same level of readability; there simply is not much difference in how lawyers write appellate briefs when it comes to the length of sentences and words. Furthermore, the readability of most appellate briefs is well within the reading ability of the highly educated audience of appellate judges and justices. Second, the relatively small differences in readability are not related to the outcome of an appeal in a statistically significant manner. Our study did show, however, that the opinions of judges and justices are less readable than lawyers’ briefs and that the opinions of dissenting judges or justices are the least readable of all the appellate writing we analyzed. Ultimately, we conclude that readability, as determined by the Flesch Reading Ease scale, is a non-issue for legal writing at the appellate level.

The analysis discussed in this Article uses a methodology and approach similar to that used in the authors’ previously published article entitled Clearly, Using Intensifiers Is Very Bad—Or Is It? That article described “an empirical study of 800 federal and state appellate briefs randomly selected for the purpose of determining whether any relationship exists between intensifier use in the parties’ briefs and the outcomes in those cases.” This article utilizes a random selection of those same 800 briefs and

Louis Sirico has noted that unless properly understood and implemented, reliance on readability formulas can be counterproductive. See Louis J. Sirico, Jr., Readability Studies: How Technocentrism Can Compromise Research and Legal Determinations, 26 Quinnipiac L. Rev. 147 (2007). Our findings, although based on a formula that he criticizes, suggest that Flesch readability has little applicability to appellate brief success. 

See generally Peter M. Tiersma, Legal Language 227 (1999) and notes accompanying text and Rudolf Flesch, How to Write Plain English, A Book for Lawyers and Consumers 20-22 (1979); see also infra note 38.


Id. at 173. Also, note that, unlike the present study, the first study found a statistically significant relationship between the use of intensifiers and success on appeal.
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adds to them the petitioner and respondent briefs written to the United States Supreme Court from the time Justice Alito joined the Court until shortly before the retirement of Justice Souter in every case where the Court issued an opinion.

A readability study using the Flesch Reading Ease scale and the Flesch-Kincaid Grade scale was performed on the Supreme Court briefs and the randomly selected state and federal briefs, as well as the court opinions associated with those briefs. This Article examines the results of that analysis. Although readability did not appear to be related to outcome, there was a statistically significant relationship between the readability of the courts’ majority and dissenting opinions. Dissenting opinions are decidedly less readable than majority opinions.8

Part II of this Article discusses readability formulas generally and the Flesch Reading Ease scale and the Flesch-Kincaid Grade scale specifically, including the criticisms and limitations of readability formulas. Part III explains our analysis methodology and the results of our analysis. Part IV contains a discussion of our results and our conclusions.

II. READABILITY, READABILITY FORMULAS, AND LEGAL WRITING

It is beyond the scope of this article to fully examine and explain readability formulas or the history and theory behind those formulas. An excellent and easily accessible short history and explanation of readability formulas and the theory underlying them can be found in The Principles of Readability by William H. DuBay.9 DuBay also provides an extensive bibliography of important and seminal works on readability.10 A short summary of the concept of readability, however, is provided here to explain the purpose of readability formulas and to explain why we applied one such formula to appellate briefs and opinions.

“‘Readability’ is what makes some texts easier to read than others.”11

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8 A forthcoming article by the authors, tentatively titled Why Losing Lawyers and Dissenting Judges Write Differently from the Winners—Intensifiers, Readability, and the Theory of Argumentative Threat, will more fully discuss the relationship between the use of intensifiers and readability by winning and losing brief writers and majority and dissenting judges and justices.


10 Id. at 59.

11 Id. at 3. DuBay also provides three additional definitions of “readability.” A less readable but perhaps more precise definition of readability is offered by the creator of the SMOG (Simple Measure of Gobbledygook) readability formula, G. Harry McLaughlin:
Since the 1920s, researchers, including linguists, educators, psychologists, and other scholars, have analyzed writing to determine what makes it more or less readable.\textsuperscript{12} By the 1950s, several formulas for assessing readability had been developed,\textsuperscript{13} and “[b]y the 1980s, there were 200 formulas and over a thousand studies published on the readability formulas attesting to their strong theoretical and statistical validity.”\textsuperscript{14}

Each of the hundreds of readability formulas uses a different set of semantic and syntactic factors to determine readability, but the most frequently used factors are word complexity and sentence length.\textsuperscript{15} And while these rather simple “surface features” exclude any consideration of content, grammar, or organization, over fifty years of research have shown that these factors are the best predictors of readability based on comprehension tests that do consider content, grammar, and organization.\textsuperscript{16} Although almost every conceivable linguistic factor has been included in the scores of different formulas, and some formulas include a dozen or more factors, the addition of more factors does little to more accurately predict readability and renders the formulas much more difficult to use.\textsuperscript{17} “Put another way, counting more things does not make [a] formula any more predictive of reading ease but takes a lot more effort.”\textsuperscript{18}

Of the many readability formulas, some of the more popular and


\textsuperscript{13} DuBay, supra note 9, at 3, 13-31.

\textsuperscript{14} Id. at 2.

\textsuperscript{15} See id. at 13-31; Stephens, supra note 12.

\textsuperscript{16} DuBay, supra note 9, at 31-35; see also JEANNE S. CHALL & EDGAR DALE, READABILITY REVISED: THE NEW DALE-CHALL READABILITY FORMULA 5-6 (1995) (“[T]he strongest predictor of overall text difficulty [is] word difficulty . . . . The next best predictor of comprehension difficulty . . . is sentence length. Sentence length stands up quite well as a predictor of syntactic complexity—even better than more complex syntactic measures based on sophisticated linguistic theories.”) As noted infra, however, these claims have been questioned and criticized.

\textsuperscript{17} DuBay, supra note 9, at 35.

\textsuperscript{18} Stephens, supra note 12.
accurate formulas that rely on sentence and word length include the SMOG (Simple Measure of Gobbledygook) formula, which “measures the number of words of more than 2 syllables in a sample of 30 words,”¹⁹ the Fog Index, which “measures, in a sample of 100 words, the average number of words per sentence and the number of words of more than 2 syllables,”²⁰ the Flesch Reading Ease formula, which measures “the number of syllables and the number of sentences for each 100-word sample,” and the Flesch-Kincaid Grade Level formula, which measures the same variables, but converts them to a grade level calculation.²¹ Flesch Reading Ease scores range from 0 to 100; a score of 0 is practically unreadable, a score of 30 means the reading is “very difficult,” a score of 70 means the reading is suitable for adult audiences, and a score of 100 means the reading is easy and should be readable by someone with a fourth grade education who is “barely functionally literate.”²²

These formulas are popular because they are relatively easy to use (all four can be applied with readily available software),²³ and they are accurate because they correlate well with more sophisticated, content-based measures of reading comprehension.²⁴ The Flesch Reading Ease Formula is probably the most influential and popular readability formula, due in part to its adoption by Microsoft Word.²⁵ The Flesch Reading Ease formula uses the following formula to determine readability: “Reading ease (RE) = 206.835 – 84.6s – 1.015w where s = the average number of syllables per

²⁰ Marnell, supra note 19, at 3; see also DuBay, supra note 9, at 24.
²¹ DuBay, supra note 9, at 21-22, 50.
²² DuBay, supra note 9 at 21-22 and Marnell supra note 19, at 3. Of course, the Flesch Grade Level scale approximates the reading ability of a person in a given school grade. DuBay, supra note 9, at 50.
²⁴ DuBay, supra note 9, at 22-24, 35 and sources cited therein; McLaughlin, supra note 11, at191-92. One such measure of reading comprehension is the Cloze test, developed by Wilson Taylor in 1953. The Cloze test deletes words from a text “(usually every fifth word) and requires the subjects to fill in the blanks.” A score is derived from the percentage of words correctly filled in by the subject. The Cloze test is the subject of more than a thousand studies, and is well accepted as a measure of reading comprehension. DuBay, supra note 9, at 27-28. See also Stephens, supra note 15, at 5 The results of a Cloze test correlate highly with the above mentioned readability formulas. DuBay, supra note 9, at 35 and sources cited therein.
²⁵ Marnell, supra note 19, at 1, 3; DuBay, supra note 9, at 22; Sirico, supra note 4, at 1; Stephens, supra note 15, at 4.
word and $w =$ the average number of words per sentence."^{26} The Flesch-Kincaid Grade Level formula uses the following formula to determine readability: Grade level (GL) = $0.39s + 11.8w - 15.59.$^{27} Therefore, our analysis considers only the relationship of word length and sentence length with success on appeal.

Even though readability formulas correlate with reading comprehension, this correlation has been questioned, and recently, the reliability of readability formulas has been criticized.^{28} Some scholars and experts claim that readability depends more on the literacy, motivation, and background of the reader than the surface factors of the text.^{29} Some further claim that reliance on such formulas can actually decrease the readability of text, especially when a writer “writes to the formula.”^{30} By trying to lower reading difficulty through the use of shorter sentences, a writer can actually reduce the semantic flow of an idea and make it more difficult to understand.^{31}

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26 Flesch, supra note 5 at 24; Marnell, supra note 19, at 3; see also Dubay, supra note 9, at 21-22.
27 DuBay, supra note 9, at 50; Sirico, supra note 4, at 151.
28 See Bertram Bruce et al., Why Readability Formulas Fail (1981), https://www.ideals.illinois.edu/bitstream/handle/2142/15490/why-rf-fail.pdf?sequence=2 (last visited Sept. 12, 2010) (criticizing readability formulas for insufficient consideration of relevant factors, lack of statistical rigor, and inappropriate use; Oakland & Lane, supra note 23 (criticizing readability formulas when used by persons without expertise in reading and language; Emily Pitler & Ani Nenkova, Revisiting Readability: A Unified Framework for Predicting Text Quality, http://www.cis.upenn.edu/~nenkova/papers/revisitingReadability.pdf (last visited Sept. 12, 2010) (arguing that surface measures do not predict readability and proposing a sophisticated formula using the number of verb phrases, the length of an article, the likelihood of the vocabulary, and the likelihood of discourse relations as a statistically valid alternative); Marnell, supra note 19 (criticizing readability formulas, in particular the Flesch Reading Ease formula, as being flawed and failing to accurately predict readability); Norman Otto Stockmeyer, Using Microsoft Word’s Readability Program, MICH. B.J., Jan. 2009, at 46 (noting problems with Microsoft’s program and, advising against exclusive reliance on the Flesch Reading Ease formula); Sirico, supra note 4 (questioning the validity of Microsoft’s version of the Flesch Reading Ease formula, and explaining the perils of using the Flesch formula beyond its intended parameters); Michael B. W. Wolfe, Readability in Dices – Readability Formulas, Readability and Comprehension Processes, http://education.stateuniversity.com/pages/2347/Readability-in-Dices.html (last visited Sept. 12, 2010) (noting the limitations of the Flesch Reading Ease formula and proposing Latent Semantic Analysis as a viable alternative).
29 See, e.g., DuBay, supra note 9, at 28-31 and sources cited therein; Bruce, supra note 28, at 1-2; Oakland & Lane, supra note 23, at 245-50.
30 Bruce, supra note 28, at 3; Oakland & Lane, supra note 23, at 245-50; Marnell, supra note 19, at 4-8; Pitler & Nenkova, supra note 28, at 5.
31 See, e.g., Pitler & Nenkova, supra note 28, at 5; Marnell, supra note 19, at 4.
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Furthermore, predicted readability of the same text can, and usually does, vary greatly between various formulas, and computerized versions of a given formula may not always faithfully execute the correct formula. A particularly insightful criticism of computerized readability formulas in this regard was raised by Louis J. Sirico, Jr. Professor Sirico claims that the Flesch formulas used by Microsoft Word (which are the formulas we used in our research) do not actually use the Flesch formulation at all, but seem to rely instead on “some algorithm to approximate the number of syllables.” This is why there may be discrepancies between various versions of the Flesch formulations, as well as differences between computer calculations and hand calculations of the same formula.

Nevertheless, at a minimum, readability formulas can be a helpful tool for roughly gauging the difficulty of longer texts and for providing a measure for determining whether that difficulty has been reduced in the revision process.

Readability formulas in legal writing have been primarily applied to statutory and contract language, ballot measures, and jury instructions, usually in an effort to comply with legislation and administrative rules requiring the use of plain language, and studies in these areas generally show that more readable language is better understood than less readable language. Until recently, however, little attention has been given to the readability of legal memoranda. The common wisdom seemed to hold that readability was not applicable to the sophisticated and complex nature of

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32 See DuBay, supra note 9, at 56, for a discussion of this problem.
33 Sirico, supra note 4, at 151-52; Stockmeyer, supra note 28, at 47.
34 Sirico, supra note 4, at 147-70
35 Id. at 166.
36 Id.
38 See Robert W. Benson & Joan B. Kessler, Legalese v. Plain English: An Empirical Study of Persuasion and Credibility in Appellate Brief Writing, 20 LOY. L.A. L. REV. 301, 302 (1987); Edward Fry, The Legal Aspects of Readability (May 1989), available at http://www.eric.ed.gov/PDFS/ED416466.pdf; Tiersma, supra note 5, at 220-27; DuBay, supra note 9, at 55; Robert Benson, The End of Legalese: the Game is Over, 13 REV. L. & SOC. CHANGE 519, 547-58 (1984-85). See also Joseph Kimble, Answering the Critics of Plain Language, 5 SCRIBES J. LEGAL WRITING 51 (citing numerous studies showing that plain language improves comprehension and describing a study showing that the same contract and statutory provisions were better understood by law students, law school staff, and a state agency staff, when the provisions were rewritten in a more readable format).
legal writing.\textsuperscript{39} While studies have shown that “plain English” is preferred over legalese in appellate briefs,\textsuperscript{40} until recently, there were no studies addressing Flesch-type “readability” and appellate briefs. Two recent studies have discussed readability in connection with “Questions Presented” in appellate briefs,\textsuperscript{41} and Professor Brady Coleman and Quy Phung have undertaken a large-scale quantitative study of United States Supreme Court briefs and Flesch readability and found no correlation between Flesch readability scores of the parties’ briefs and the outcome of appeal.\textsuperscript{42} However, to our knowledge, no study has yet applied a regression analysis to determine whether readability of an appellate brief is related to the outcome of the appeal. Our study confirms the findings of Professor Coleman and Mr. Phung and shows no relationship between the readability of a brief and the outcome of an appeal.

For our purposes, the limitations and criticisms of readability formulas are largely irrelevant. We chose the Flesch formulas because we wanted to see if using longer sentences and longer words correlated with success on appeal. We assumed that the audience for appellate briefs could read the longer, more complex words and sentences. We only wanted to know whether the length of words and sentences correlated with success on appeal. For this limited purpose, the Flesch formulas are apropos. Although we did not expect to find any relationship, we had previously found such a relationship in connection with the frequent use of intensifiers, and so, we gave it a go. As explained below, our hypothesis was confirmed, and we did not find any such relationship; however, we found some interesting trends and patterns that may be helpful to legal writers.

\textsuperscript{39} See James Lindgren, \textit{Style Matters}, 92 YALE L.J. 161, 169 (1982) (addressing the merits of applying a Flesch-type analysis and asking rhetorically: “Why force yourself to write at an eighth- or ninth-grade level if you are writing mainly for an audience of other lawyers?”). An example of this sentiment was also stated by the court in \textit{Johnson v. Revenue Management Corp.}: “Unsophisticated readers may require more explanation than do federal judges; what seems pellucid to a judge, a legally sophisticated reader, may be opaque to someone whose formal education ended after the sixth grade.” 169 F.3d 1057, 1060 (7th Cir. 1999).

\textsuperscript{40} See, e.g., Benson & Kessler, supra note 38, at 301-321; Tiersma, supra note 5, at 211-30.


\textsuperscript{42} Brady Coleman & Quy Phung, \textit{The Language of U.S. Supreme Court Briefs: A Large-Scale Quantitative Investigation} (2010) (unpublished manuscript) (on file with the authors).
III. METHODOLOGY AND THE RESULTS OF THE ANALYSIS

A. The Study and Case Data Base

Notwithstanding the possible shortcomings of Microsoft Word’s version of the Flesch and Flesch-Kincaid formulations, because we did not need to compare our results with another formula and because we were only using a formula to obtain a consistent comparison of the briefs and opinions in the study, we felt that Microsoft Word’s version would be a good choice. Furthermore, the ease of use and the accessibility of Microsoft’s software to anyone wanting to compare our results with their own writing, also made the Word version a good choice. We used the Flesch Reading Ease formula and the Flesch-Kincaid formula from Word 2007 to insure that we would get the full possible range of results in connection with the Flesch-Grade scale.43

Our study database consisted of court opinions and briefs from 266 United States Supreme Court cases,44 90 randomly selected state supreme court cases, and 100 federal court appellate cases.45 In total, we analyzed 648 court opinions and 882 appellate briefs. Logistic regression was used to evaluate the impact of readability of the appellant and appellee briefs on the odds of reversal at the state or federal level, and then again to evaluate the impact of readability of the petitioner and the respondent briefs at the

43 See supra note 28 and accompanying text.

44 The 130 Supreme Court cases included the opinions written by the Court and the petitioner and respondent briefs written to the United States Supreme Court from the time Justice Alito first participated in an opinion of the Court on February 21, 2006, through the opinion of the Court issued on June 28, 2007. The data base only includes cases in which the Court issued an opinion.

45 We used the same 400 randomly selected cases that we used for our previous intensifier study. To obtain the sample of 200 federal cases, we randomly chose cases from 2001-2003 and randomly selected cases so that the appellate courts hearing the most cases (i.e., Ninth Circuit, Fifth Circuit) had a proportionally larger representation in the sample. The 200 state cases were randomly chosen in a similar manner, with larger states generally having more cases in the sample. We selected only civil cases that had a clearly discernable outcome, usually either “reversed” or “affirmed,” and the selected cases had at least one brief from each party, usually the principal and the response brief. Occasionally, a reply brief was used if a principal brief was unavailable.

46 Like standard regression analysis, logistic regression is used to model the relationship between a response variable and one or more explanatory variables. As in standard regression, the explanatory variables can be a mix of quantitative or categorical variables. The unique facet of logistic regression is that the response variable is categorical (e.g., “yes/no,” “died/survived,” or “reversed/affirmed”) instead of quantitative (e.g., “exam score” or “annual salary”). In this analysis, the logistic regression models the odds of reversal based on the measured explanatory variables.
Supreme Court level.\footnote{In evaluating the impact of readability, we initially chose to use the Flesch Reading Ease scale because, given Microsoft Word’s practice of rounding the readability measures to the nearest tenth, Flesch Reading Ease is a more precise measure. All analyses were later run using the Flesch-Kincaid Readability scale with no difference in conclusions.} When considering cases at the state or federal level, we considered the following covariates’ impact on the probability of reversal: jurisdiction (federal or state), standard of review (de novo, abuse of discretion, clear error, or other), judicial dissent status (present or absent), and the readability of the court’s written opinion. Interactions between these factors were also considered in the statistical model. At the Supreme Court level, we considered covariates for constitutional status (constitutional issue or not), criminal status (criminal or civil case), judicial dissent status (present or absent), and the readability of the court’s written opinion.

Backward elimination\footnote{Backward elimination is a form of stepwise regression in which the variables to be included in the model are chosen via an automated process. In this algorithm, all of the explanatory variables and interactions are included in the preliminary model. If one or more variables are nonsignificant (p-value > 0.05), the least significant variable is dropped and the model is refitted. The process is repeated until all nonsignificant variables are eliminated from the model.} was used to eliminate non-significant factors and interactions from each logistic regression model. In each of the two models (state or federal, and Supreme Court), the readability of briefs submitted to the court never appeared significantly associated with the outcome of the case. In the model for the state or federal court data, after backward elimination of nonsignificant terms, only the jurisdiction variable was a significant predictor of reversal (because state cases have much higher reversal rates than federal cases). In the model for the Supreme Court data, no variables remained in the model of backward elimination.

\textbf{B. The Results}

The analysis indicates that the Flesch Reading Ease scores at the state and federal levels are not significantly related to outcome at the 5% significance level. The same was true for the Flesch-Kincaid Grade Level. For the analyses of the Supreme Court data, again there was no statistical evidence that readability or grade level had any impact on outcome.\footnote{The Reading Ease scores and the Grade Level scores differ significantly from those reported by Coleman et al. Of course different cases were used in each study, but the reason our scores indicate a lower level of readability for Supreme Court cases is probably due to a difference in methodology; we included case citations as part of the text, and Coleman et al. deleted citations and inserted the word “scite.” Coleman, \textit{supra} note 42, at 4-5. We included the citations because some legal writing scholars believe that citation}
Although there was no significant relationship between readability and outcome, there were some interesting relationships between the readability of briefs and opinions at the state, federal appellate, and Supreme Court levels. For these relationships, we consider statistical significance to be achieved if the p-value for the statistical test is less than 0.00167, which is found by dividing 0.05 by the total number of mean comparisons (30).

First, there is no significant difference between the readability of opinions from state supreme courts and federal courts of appeals. They are apparently quite similar in culture with respect to readability of briefs and opinions. Second, United States Supreme Court readability is significantly different from the lower courts within all writer comparisons (except in Supreme Court dissents versus federal court dissents where there are very few federal dissents for analysis). All other within writer comparisons are significant—United States Supreme Court petitioners, respondents, majority opinion writers, and dissenting opinion writers are all less readable on average than their lower-court counterparts. Third, while there is virtually no difference between all writers at the state level, there is some limited evidence of judges writing in a less readable style than lawyers at the federal court of appeals level. Fourth, at the United States Supreme Court level, the Justices’ writing is significantly less readable than the lawyers’ writing. The differences in the readability and grade level at the three levels are shown in Table 1 below, and boxplots for readability are given in Figure 1 following Table 1. We note in Figure 1 that although the means for different writers are often significantly different (see the discussion in Section IV), there is still a great deal of variability within each writer group. (Remember, a higher Reading Ease score—and a lower grade level score—means the writing should be more readable.)
TABLE 1

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<th>Supreme</th>
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<tr>
<td>- split vote</td>
<td>31.16</td>
<td>---f</td>
<td>34.93</td>
</tr>
<tr>
<td>Dissent</td>
<td>29.50</td>
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<table>
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† sample size is too small to provide a reliable number.

Figure 1. Boxplots illustrating the distribution of Flesch Reading Ease for each writer group.
IV. DISCUSSION AND CONCLUSION

The results of our analysis show no correlation between outcome on appeal and readability based on the Microsoft Word version of the Flesch Reading Ease scale and the Flesch-Kincaid Grade Level scale. This result was expected—although it would have been far more interesting to have found a correlation. Our results are consistent with those of Coleman et al. in this regard.\textsuperscript{52} Our results also differ from our previous study where we found that the use of intensifiers is significantly related to outcome on appeal.\textsuperscript{53}

The lack of correlation between outcome and readability could be due to several factors. First, there is not much difference in the readability of all the opinions and briefs studied. The lowest readability is found in dissenting opinions of Supreme Court Justices (29.50 Reading Ease and 14.78 Grade Level). The highest readability was found in the briefs of federal court of appeals appellants/petitioners (36.27 Reading Ease and 12.93 Grade Level).

Second, it is possible that at the appellate level, where the arguments are likely more developed and studied (by both the lawyers and judges), the merits of the case outweigh the small differences in readability that do exist. This is, of course, a welcome interpretation since our system of justice emphasizes decisions based on the merits,\textsuperscript{54} and our rules of procedure are written and applied so as to reach a decision based on the merits whenever possible.\textsuperscript{55}

Third, it could be simply that since the level of readability is well within the educational level of the reading audience, the small differences do not affect the reader’s comprehension of the brief or the reader’s perceived credibility of the brief writer. Of course, it could also be a combination of the three above factors or some other unidentified factor. It is interesting, but not statistically relevant, to note that dissenting United States Supreme Court Justices tend to write in a less readable manner when writing a dissent. This examination of individual writing styles of the Supreme Court Justices will appear in a forthcoming paper.

\textsuperscript{52} See supra note 49.
\textsuperscript{53} Long & Christensen, supra note 6, at 182-89.
\textsuperscript{54} Foman v. Davis, 371 U.S. 178, 181-82 (1962) (stating that “the purpose of pleading is to facilitate a proper decision on the merits”).
Even though no correlation was found between outcome and readability, there are still helpful lessons to be gleaned from our results. First, if a novice lawyer or judge wants to check whether his or her writing is near the readability level of other lawyers or judges, the novice can simply perform a Microsoft Word readability check and compare the results with our results. (Include your citations as part of the readability check.) State court and federal appellate practitioners, judges, and justices should aim for a Reading Ease score of approximately 35 or a Grade Level score of somewhere around 13. Supreme Court practitioners should try to be a little less readable; aim for a readability score of around 33 or a Grade Level score closer to 14. New Supreme Court Justices (take note, Justices Sotomayor and Kagan) should strive for yet less readability when writing for the majority, around 30 to 31 on the Reading Ease scale and about 14.4 on the Grade Level scale. And, when writing a dissenting opinion, go for the least readable style: 29.5 on the Reading Ease scale and 15 on the Grade Level scale. And, if citations are not included in the calculations (we included them in our analysis), your writing may score even higher. Finally, in case you are wondering, this article earns a Reading Ease score of 30.4 and a Grade Level score of 14.1, which puts us squarely in the realm of majority-writing Supreme Court Justices.

Of course, if our study approximates reality, you are probably already writing your appellate briefs near the same level, and in all probability, if you attempted to modify your readability, it would make little difference in the outcome of an appeal. What Macbeth said about life is probably true for the impact of appellate brief readability on the outcome of an appeal: “full of sound and fury, Signifying nothing.”

Finally, nothing in our study suggests that legal brief writers should not seek to write shorter, rather than longer, sentences and use shorter, rather than longer, words. Readers, including justices and judges, generally prefer concise writing and perceive “readable” writers as being more credible. So, although you may gain some points with the judge, more readable writing will probably not win your appeal.

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56 See supra note 49 for an explanation of why we included citations.

57 This is especially you true when one considers that Coleman et al., analyzed twenty-five years of Supreme Court briefs and found no correlation. See Coleman, supra note 42, at 14.

58 WILLIAM SHAKESPEARE, MACBETH act 5, sc. 5.

59 See supra notes 33-38.