The Old Bailey Proceedings, 1674–1913: text mining for evidence of court behavior

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Abstract: This article uses text and data mining methodologies to explore the distribution of text among the 197,000 trials published as part of the Old Bailey Proceedings, 1674-1913. By testing how the Proceedings report trials that resulted from different charges and pleas it argues that historians need to be wary of their use as evidence for eighteenth-century court behaviour. It also demonstrates that the Proceedings give a much fuller account of nineteenth-century trials, and provides evidence derived from the distribution of words between trials for the early and growing importance of “plea bargaining” in the nineteenth century, resulting in a significant transformation in the character of the criminal trial.

Keywords: Old Bailey, crime, data mining, text mining, Proceedings

Biographical Paragraph:

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The shortest trial report in the *Old Bailey Proceedings* is precisely eight words in length. In February, 1685:

Elizabeth Draper, Indicted for Felony, was found Guilty.

The longest trial is 320 pages, and over 155,000 words long, and details the crime and conviction of William Palmer, found guilty of poisoning John Parsons Cook in 1856. Each of these trial reports, however, forms just a tiny fragment of the over one hundred and twenty-seven million words that make up the *Old Bailey Proceedings 1674-1913* as a whole. Now available online, the *Proceedings* form the largest body of accurately transcribed historical text we currently possess in an electronic form, and as a result provide a unique opportunity to explore an all-important historical source both as a single text, and as a collection of 197,745 generically related trial reports. Using computational methodologies based on “text mining” this article seeks to do three things. First, to provide a detailed description of the *Proceedings* as a single massive text object, illustrating how the distribution of text between sessions and between individual trials evolved between the late seventeenth and early twentieth centuries. Second, to compare these measures of a changing text to statistics reflecting the behaviour of the court (patterns of prosecution and convictions), isolating how changes in the text reflect (or hide) changing patterns of court behaviour. And third, to use these two measures in combination to both test the reliability of the *Proceedings* as evidence of court room practise at the Old Bailey in the eighteenth century, and of changing court behaviour in the nineteenth. In the process it argues that “plea bargaining” was an early and commonplace component of nineteenth-century justice; and that its history is best evidenced through the use of text mining methodologies.
The published reports of trials held at the Old Bailey, or Central Criminal Court in London between 1674 and 1913 have served as an evidentiary touchstone for social historians and historians of crime and the criminal justice system for generations. Since the publication of Dorothy George’s *London Life in the Eighteenth Century* in 1925 they have formed the first (and the frequently the last) point of enquiry into social relations, crime and policing in eighteenth-century London, though they have been largely ignored by historians of the nineteenth-century metropolis. And in the work of a generation of legal scholars using a combination of “close reading” and statistical sampling, the Proceedings have provided the basis for a narrative of the development of the “adversarial trial,” the changing role of legal counsel, the rise of “plea bargaining” and summary justice, and the evolving functions of both judge and jury. The roles of legal counsel and the rise of defense counsel, in particular, have generated an extensive literature based largely in an analysis of the presence or absence of specific references to counsel in the trial reports contained in the Proceedings. This work has not entirely ignored either the changing nature, or the evidentiary difficulties presented by the Proceedings. Most historians would agree with John Langbein’s observation that their analysis is a “perilous undertaking, which we would gladly avoid if superior sources availed us.” Nevertheless, and through the work of Langbein, John Beattie, Simon Devereaux, Magnus Huber and Robert Shoemaker, in particular, we possess a growing understanding of the changing nature of the Proceedings in the eighteenth century. We can chart many of the policy imperatives of the City of London, and their impact on what was published. We also have a more schematic understanding of the changing nature of the economics of production; and of the linguistic character of the text as a record of spoken language up to the first quarter of the nineteenth century. We know much less about the forces that shaped the Proceedings in the nineteenth century. But, even for periods for which there exists a detailed literature, our understanding of the precise character of the Proceedings...
is fragmentary. And at 127 million words, recording 239 years of legal administration, and 197,745 individual trials, no one has actually read them in their entirety, nor ever will.

1. The Proceedings as a massive text object

One basic measure of the Proceedings as a text can be found in the numbers of words published each year. This reflects both the gradual evolution of the Proceedings from a few pages reporting brief trial summaries for a popular audience in the 1670s and 1680s, to their eventual role as a substantive record of what was said in court published as part of the administrative machinery of the criminal justice system for a narrow legal audience. Of course, the Proceedings were never complete. In the eighteenth century the shorthand recorder, Thomas Gurney, was happy to admit that he regularly excised repetitive witness statements; and in evidence given at the trial of Elizabeth Canning for perjury in 1754, reported: “It is not to be expected I should write every unintelligible word that is said by the evidence.” And from 1785 and then more consistently from 1787, evidence that was thought to present a moral danger to the reading public was excluded. In particular, witness statements in cases of rape and sodomy were not reported from this date onwards. Between October 1792 and December 1793 all trials that resulted in a single verdict of “not guilty” were also censored for fear that defendants were gaining the upper hand in court; while for a short period in 1805 the City sought to exclude legal arguments made on behalf of defendants, worried they would publicise successful courtroom strategies. The kind of inconsistent and ambiguous relationship between the trials as reported in the Proceedings and the run of evidence given in court, even towards the end of their 239 year publishing run, is reflected in the three trials for malicious libel, conspiracy and sodomy respectively, involving Oscar Wilde and held over three sessions of the court in the Spring of 1895, which kept newspapers rapt for months, and are given precisely 22 lines in the Proceedings.
Nevertheless, the number of words published in combination with the number of trials reported as having been heard each year (a more direct measure of the changing jurisdiction of the court and the rise of summary justice and police courts as alternative judicial venues) provides powerful evidence of the transformation of the Proceedings over time; and more significantly for historians seeking to use the Proceedings to evidence changing legal practice, illustrates that the changes in the length of the Proceedings can be attributed only in part, and only in certain periods, to the changing nature of court business.

The existence of a digital edition provides an opportunity to analyse this source in new ways. Digital representations of texts have a number of characteristics which distinguish them from more traditional sources. The “transaction costs” involved in their use is radically reduced, but more importantly, the types of information available for analysis is changed. In a limited sense machines can “read” through vast amounts of digital text very quickly, even though they cannot fully understand it. This allows for machine reading to complement and supplement the work of “close reading” undertaken by humans as part of the task of exploring the character of large corpora of text and of locating shorter texts in their fullest context. This methodology builds on what Franco Moretti describes as “distant reading,” but more ambitiously enables the whole text to be examined in a form that facilitates the identification of large-scale patterns, while simultaneously allowing us to detect small-scale trends, and outliers. It creates a version of what Katy Börner has dubbed a “macroscope,” allowing large and small scale characteristics to be viewed simultaneously. The graphs presented with this article, therefore, are not solely designed to illustrate or highlight specific points, but rather to allow all the available data to be viewed at a single glance, and to facilitate an open-eyed engagement with the patterns revealed.

The electronic edition of the Proceedings has one additional characteristic that influences how it can be read. In constructing the underlying dataset, texts were “tagged” to
encode substantial information about each trial. For example, the trial of Elizabeth Draper, referred to earlier, has been tagged to indicate that “Elizabeth Draper” is a woman's name, and that her trial was for a specific offence, resulted in a specific verdict, and took place at a given sessions. This tagging allows us to analyse predetermined types of data (verdict, for instance), while simultaneously “mining” the text for characteristics (i.e. trial length) that have not been tagged.

The existence of a tagged version of the Proceedings as well as a full transcription allows us to compare two consistent representations of the same text--one reflecting the tagged trials, and the second composed of the raw text of each trial adapted to facilitate “mining”. The process raises serious questions. Using “trial,” for instance, as the basic unit of measurement for working with the Proceedings is problematic. Although the comprehensive online edition of the Proceedings contain 197,745 “trials,” it names over 253,385 defendants, reflecting 211,112 offences, committed against 203,501 victims. The use of “trial” as a unit of measure could hide variations in the numbers of defendants processed or offences considered at each “trial”. But the use of this unit of measure has the overwhelming advantage of reflecting the structure of the Proceedings themselves.

With this proviso, these gross measures of publishing and court activity confirm that the Proceedings both evolved significantly and did so in a complex relationship to the changing scale of court business--the press of the number of trials contributing to the changing length of the published text to a different extent in different periods.

Graph One: Number of words published per year, 1674-1913 (scaled on the right), against the number of trials heard (scaled on the left). Word counts are derived from trial text only and exclude prefatory material, advertisements and punishment summaries. A five year moving average, or smoothing has been applied to both data
On the basis of Graph One the Proceedings can be roughly divided into two halves, at
around 1820, with both the numbers of trials recorded and the amount of text published
changing markedly. These two broad periods can in turn be roughly divided into four sub-
periods--1674-1730; 1730-1820, 1820-1850, and 1850-1913--each of which is characterised
by a different pattern of both overall word length and number of trials recorded each year,
and by a different relationship between these two measures.20

The first of these sub-periods, 1674-1730, is marked by numerous gaps in either the
publication history of the Proceedings, or else in survival rates; and contains a large number
of trials reported in just a few words.21 For these reasons, these early Proceedings have been
largely ignored by historians of the criminal justice system as providing poor evidence of
court behaviour, and in this article will figure only in passing. Instead, it will concentrate on
the period from 1730-1820, and considered together, the periods 1820-1850 and 1850-1913.
The period from 1720 -1820 reflects both the gradual transition in the nature of the Proceedings leading up to the 1730s, and a series of sharper movements in the length of the Proceedings in 1749, 1762, 1779 and 1793 that do not appear to reflect the number of trials heard in any obvious way. Similarly, the unusual character of the Proceedings in the 1780s, when the number of trials and words published appears to correspond is evident; as is the deterioration of the relationship between trial numbers and published words in the subsequent decades to 1820.

Overall, the left hand side of Graph One re-enforces Robert Shoemaker’s and Magnus Huber’s observation that the later 1720s and 1730s witnessed a marked transition in the nature of reporting found in the Proceedings. Both Shoemaker and Huber have suggested that these decades saw a gradual increase in the amount of text being published per trial, and, in Huber’s estimation, a more consistent attempt to represent the trial process in the form of individual, first person, witness statements. Beyond this, Shoemaker has argued that the period from 1729 to 1778 was characterised by a dynamic interplay between political and publishing imperatives that together shaped the Proceedings; encouraging increasingly extensive trial reports, while effectively censoring material that reflected the strategies of defendants, or which brought the system into disrepute. The apparently erratic relationship between the number of trials heard and words published would support his description of this period as one characterised by a complex interplay of forces, but adds to it a series of significant moments of transition.22 The evidence of Graph One also tentatively supports John Langbein’s observation that the period between September 1782 and December 1790-- when Edmund Hodgson acted as the shorthand reporter--was a kind of “short golden age,” in which most trials were apparently reported at length, and during which the text of the Proceedings responded consistently to court behaviour.23 And finally, Graph One is consistent with Simon Devereaux’s characterisation of the last decades of the eighteenth
century and first decade of the nineteenth, as a crisis of crime and punishment in which the Proceedings themselves served as an important tool wielded by City authorities in their on-going attempt to promote the perception of “public justice”. The clear impact of changes in reporting practises between October 1792 and December 1793, when trials resulting in an acquittal were censored from the Proceedings as part of a wider strategy to sustain public confidence in the criminal justice system, re-enforce Devereaux’s interpretation. Overall, and while confirming the broad outline found in the secondary literature for the period up to 1820, Graph one adds a new layer of detail, drawing attention to specific moments of significant change scattered across eight decades. The story of the nineteenth-century Proceedings seems to fit less well.

The right hand side of Graph One reflects the trials and words recorded in the Proceedings in the period up to 1913, and appears to contradict John Langbein’s observation that following 1790 “the quality of reporting … declined sharply…[and] the accounts of individual trials became more compressed.” And to belie his conclusion that they simply “limped on throughout the nineteenth century.”

The sheer number of trials reported and words published in the nineteenth century, is remarkable. In just the thirty years between 1820 and 1850 over 33.5% of all trials covered by the Proceedings were recorded in 35.4 million words (27.9% of all text). And while the number of trials heard per year declined from 1855 onwards the amount of text dedicated to trial reporting remained consistently high in the second half of the nineteenth century (though marked by moments of rapid change in late 1870s and 1900s). Over two and a half times as many words (64,740,371/24,811,276), and almost three times as many trials (108,994/37,523) were recorded in the seventy years after 1800, than in the seven decades before. More than this, Graph One illustrates the presence of significant transformations in
the amount of text and number of trials heard from the 1820s, and in the number of trials recorded in the 1850s.\textsuperscript{26}

This volume and changing character of this data calls into question the overwhelming tendency of legal historians to concentrate on the eighteenth-century Proceedings at the expense of their nineteenth-century equivalent, and evidences a series of substantial changes in both the character of the Proceedings and the trials they reported that have not hitherto been subject to sustained analysis. Moreover, the close correspondence between the numbers of trials heard and the number of words published between 1820 and the mid-1850s, in particular, also demonstrates that this period represents one in which trials possessed a more consistent relationship with courtroom activity than was true at any time in the previous century, with the possible exception of the 1780s.\textsuperscript{27} And finally, Graph One points to the existence of a hitherto largely unnoticed but dramatic transformation in either trial reporting or court business, or the relationship between the two, centred around 1855, that heralds a relatively consistent new form of either trial or reporting that continues through the early twentieth century. This transition correlates with the passage of “The Criminal Justice Act” of 1855, establishing new forms of summary jurisdiction. This basic text mining of the Proceedings adds a substantial layer of detail and granularity to the necessarily impressionistic readings that have been undertaken up till now, pointing to a series of specific moments that deserve further investigation. But to test the nature of these moments of transition in the Proceedings we need to move beyond looking at the total number of words published per year, to examine the text as a collection of 197,745 generically similar trial reports.\textsuperscript{28}

2. The Proceedings as a collection of text objects
Aggregate measures of words published per year hide substantial variations in the number of words dedicated to individual trials in a single year or session. Average trial length has been used by Shoemaker, Langbein, and Devereaux as evidence of the changing nature of the Proceedings in the eighteenth century; and by Shoemaker in particular, to illustrate the role of the Proceedings in publicising or suppressing particular types of trials over others. But the notion of an “average” trial hides the distribution of trial lengths in any given session or year—a few long trials counterbalance many short ones, and expressing this relationship as an “average” effectively disguises the underlying distribution. In the year 1856, for example, the mean trial length was 1,124 words, but more than 72% of trials were actually shorter than this, balanced by a small number of very long trial reports, including the 155,000 word account of the trial of William Palmer mentioned at the beginning of this article. Hitherto, historians have also necessarily been restricted to an analysis of a relatively small sample. The data presented here is the first time a comprehensive measure of trial length for the complete set of 197,745 reports has been produced. It is purposely presented in such a way as to encompass all available data, rather than as a means of illustrating a particular pattern, and is designed to work as a “macroscope” in Katy Börner’s phrase. In other words, Graph Two, and subsequent scatter charts, were created as objects of study in their own right rather than as illustrations of patterns discovered by other means, and represent an explicit methodological intervention in how we study trial accounts.
Graph Two: A Scatter Chart of all 197,745 trials in the Proceedings measured by word length. Each dot in the scatter chart below represents a single trial. Please note that the Y axis is a logarithmic scale.\textsuperscript{32}

The scatter chart of trial lengths by session illustrates that throughout the history of the Proceedings, but in distinct and different ways at different periods, some trials generated long reports, while others were recorded in a just a few words. The significant aspects of Graph Two include the dense cluster of trials of a similar length between 1820 and the mid-1850s, and the clear space between trials clustering at the bottom of the distribution, and those edging towards the top in almost all periods (the logarithmic scale tends to understate the distance between these essentially different forms of reporting). The dense accumulation of trials in the first half of the nineteenth century mirrors the steep increase in court business in these years evidenced in Graph One, and reflects the extent to which most trials during these decades were reported in some detail. But the significance of the marked bimodality of trial length and its pattern of distribution is more difficult to identify. For some eighteen
decades trials were recorded either with fewer than about a hundred words, or with substantially more, but almost never with around a hundred words.

The precise nature of this bi-modal pattern can be brought into sharper relief by looking specifically at the top and bottom quantiles in the overall distribution of trial lengths. Graph Three reproduces the scatter chart of trial length by session, with the 10th, 25th, 75th and 90th percentiles picked out as solid boundaries. Where the resulting lines are closest together trial reports are most similar (at least as measured by word length); and where they diverge the Proceedings are marked by a distribution that includes large numbers of distinctly different long and short trial reports.

Graph Three: A Scatter Chart of trials, with 10th, 25th, 75th and 90th percentiles marked as boundary lines. Please note that the Y axis is a logarithmic scale.

Graph Three re-enforces many of the conclusions drawn from the wider distribution of annual word length identified from Graph One, but adds to that analysis several
complicating issues. In the first instance it again suggests that the Proceedings can be roughly divided into two periods at around 1820, and four sub-periods--1674-1730; 1730-1820, 1820-1850, and 1850-1913--and that trial reports published prior to the mid-1720s were overwhelming short in length and narrowly distributed around 100 words per trial.

Significantly, Graph Three demonstrates that this pattern then changes from around May 1725 when George James took over the publication of the Proceedings. This is several years before the City of London’s December 1729 decision, highlighted by Robert Shoemaker, to expand the Proceedings with the explicit intent that:

> there will be more Room to enlarge upon Trials, they, being resolv'd (with all Regard to the Court) to have each Proceeding related in the fullest and clearest Manner, both with Respect to the Crime, the Evidence, and the Prisoner's Defence.\(^{33}\)

But more significantly, from the 1720s, the distribution of trials between short and long forms becomes much more variable for at least the next seventy years. The period from 1720 to 1810 illustrates rapid shifts in the distribution of trial length in 1724, 1732, 1742, 1749, 1761, 1768, 1779, 1782 and 1790; with periods of relative consistency marked out between.

The earlier dates, in particular prior to 1779, have not hitherto been identified as significant, though they clearly changed the nature of the trial accounts published. Two of these transitions, 1742, and 1768, coincide with changes in the publisher. July 1742 marks the first sessions paper produced by T. Cooper, and December 1768, the first by S. Bladon. The transitions in 1749 and 1761, on the other hand, map closely on to the period following the Lord Mayor’s, Sir William Calvert, decision to guarantee that the “Sessions-Book will be constantly sold for Four-pence, and no more, and that the whole Account of every Sessions shall be carefully compriz'd in One such Four-penny Book, without any farther Burthen on
the Purchasers.”

Both the apparently anomalous statistics for 1749/50, and the distinctive distribution of trial lengths for the next decade, suggests that as well as the printer, this pricing policy (in place through June of 1761), had a significant impact on the Proceedings as a text. The use of text mining in this analysis makes explicit and precise points of transition that would be difficult or impossible to identify using more traditional methodologies.

Later eighteenth-century developments have been more thoroughly investigated. The City of London’s 1778 decision to demand that the Proceedings provide a “true, fair, and perfect narrative,” has been emphasised by both Devereaux and Shoemaker and appears to have had a direct impact on their content from the following year. The significance of the short career of Edmund Hodgson as shorthand reporter (1782-1790), highlighted by John Langbein, is also evident. The gradual nature of the changes in distribution at the beginning and end of Hodgson’s period in this role, however, implies that it was less transformative than Langbein suggests. Overall, Graph Three confirms the distinct and rapidly changing character of the text as identified by Shoemaker, Devereaux and Langbein for the period from the 1720s to the first decade of the nineteenth century, while, as with Graph One, adding a new level of granularity and several additional points of transition to an already crowded list.

More generally, these spasmodic transformations in the distribution of trial lengths in the eighteenth century re-enforce Shoemaker and Devereaux’s conclusion that the Proceedings were responding to influences beyond the run of court business. Not only was text and the number of trials largely disconnected in these years (as seen in Graph One), but the rapid changes in the distribution of trial lengths are unlikely to have followed in the wake of changes in court practise, simply because of their rapidity. The kind of dramatic changes evident in 1742, 1749, 1761, 1768, 1779, 1782 and 1790 must be attributed to vagaries in reporting rather than to changes in the criminal justice system. In other words, and despite
John Langbein’s identification of the period from 1783 to 1790 as a “short golden age,” supported as it was by the correlation between text length and the number of trials heard, evidenced in Graph One, the whole of the eighteenth-century publication should be seen as possessed of a problematic relationship with court room practise. This in turn makes their use as evidence for the rise of legal counsel and the adversarial trial difficult to sustain. It might be possible to separate out periods in the eighteenth century in which the distribution of trial texts are similar (ie. 1730-42, 1749-55, 1770-79), but demonstrating that the nature of the reporting contained in the relevant trials is consistent and reflects a consistent relationship to court room practise would be much more difficult.

At the same time, the more gradual pattern of change associated with the nineteenth century and the consistent pattern of reporting evident in the first half of the nineteenth century in particular, suggests that this problematic eighteenth-century relationship between the Proceedings and the court changed with the century. Although many more trials were heard in the first half of the nineteenth century (as Graph One illustrated), trial reports remain typically longer than in the preceding century and distributed more closely around a median. Graph Three demonstrates that for the first thirty years of the nineteenth century at least, the vast majority of trials, about 90 per cent, were reported at between 100 and 1000 words, and that this represents the single period in the history of the Proceedings during which most trials were reported at a similar length. Graph Three also illustrates that this pattern then gradually evolved to a mixture of longer and shorter trial reports between the early 1830s and 1850 with relatively few trials occupying the middle ground. Graph One highlighted the extent to which the number of trials and amount of text published at mid-century changed dramatically in 1855; but Graph Three suggests a more complex and gradual transformation occurring between the early 1830s and the mid-1850s. This new bimodal pattern of long and
short trial reports then remains remarkably consistent and persistent through the rest of the century.

In some respects, the late nineteenth-century pattern, the rise of a marked bimodal distribution, looks similar to that created by trial reports from periods such as 1730-1742, but whereas the pattern of trial reporting in the earlier period was short lived and inconsistent, reflecting changes in publishing policy, the long term and consistent nature of the late nineteenth-century pattern, and the gradual transition at mid-century, suggest a stronger relationship between the published trials and court business. Unlike the changes evidenced for the eighteenth-century Proceedings, the major transitions in the nineteenth century reflect substantial and real transformations in the nature of trials held at the Old Bailey.

The nineteenth-century criminal trial has been much less studied than its eighteenth-century counterpart, but in the work of Malcolm Feeley, based on a sampling of the Old Bailey trial reports - and more tangentially, Mark Haller, working from comparative US statistics - at least one phenomenon that might account for the changes evidenced in Graphs Two and Three has been identified. Feeley has argued that the nineteenth-century witnessed the rise of “plea bargaining” as a standard component of the criminal process; essentially moving negotiation over punishment and guilt from the court and a jury trial to a pre-trial process managed by legal professionals. The development of “plea bargaining” substantially explains the bimodal distribution of trial reports evidenced in Graph Three as a “plea bargain” inevitably results in a plea of “guilty,” requiring no witness statements or legal arguments and generating very short trial reports. More contentiously Feeley has also argued that this led to a “steady shift away from judge-dominated to lawyer-dominated proceedings”; and that this in turn removed many trials from the consideration of a jury, describing this transition as a result of changing professional legal practise. In contrast, and using a comparative approach to regional change in the US, Mark Haller has located the same rise in
“plea bargaining” as a legacy of a more complex set of structural transformations that effected the whole of the criminal justice process, citing the rise of professional police forces, the declining role of the victim of crime as a prosecutor, and the increasing use of imprisonment as a form of punishment, to explain why “plea bargaining” grew more commonplace across the whole of the Anglo-American legal world.  

3. Testing the attributes of long and short trials

We can use data mining methodologies to further test the role of changing courtroom practise in determining the nature of the trial reports that made up the Proceedings in both the eighteenth and nineteenth centuries (and the bimodal distribution evidenced in Graphs Two and Three), and the validity of Feeley and Haller’s emphasis on “plea bargaining” in shaping court room behaviour in the nineteenth century by using tagged data to disaggregate the factors associated with trials reported at different length.

One possibility is that the bimodal pattern evident in Graphs Two and Three reflect the selective reporting of more serious trials in both the eighteenth century, and the latter half of the nineteenth--that forms of “killing,” for instance, naturally took up a larger amount of both court time and space in the Proceedings than did petty theft.

Graph Four: Distribution of trial lengths in words for “killing” displayed as black circles; all other trials as grey dots. “Killing” includes all trials tagged for the offences of, “Infanticide,” “murder,” “petty treason,” “manslaughter,” and “killing: other,” by the Old Bailey online.
Graph Four separates out “killing” from all other crimes and in the first instance evidences again a substantial distinction between the nature of the Proceedings in the eighteenth and the nineteenth centuries. For the eighteenth-century Proceedings there is clear evidence that more words were devoted to “killing,” than to other types of crime; and that the bimodal pattern of reporting in this period was being at least partially determined by the nature of the offence. This eighteenth-century pattern reflects either longer trials for serious crime; or selective reporting of particularly shocking trials designed to engage a popular audience. In contrast, the nineteenth-century pattern reflects just the opposite. The growing number of truncated trial reports at the bottom of the distribution from at least the 1820s for serious crimes, for “killing,” implies that the bimodal distribution of trial reports in the nineteenth century results from something other than either selective reporting or extended trials for serious offences, and evidences a new role for “plea bargaining”.

Another way of testing and representing what appear to be two distinct and different regimes of trial reporting is to separate out and graph trials that result in a “guilty” and “not
“guilty” verdict. This has the advantage of evidencing the issue of “plea bargaining” more directly as trials where this procedure feature inevitably result in a “guilty” verdict.

Graph Five: Distribution of trial lengths in words for “Guilty” and “Not Guilty” verdicts. This dataset excludes trials where mixed and miscellaneous verdicts are recorded.

Like other illustrations of this data, Graph Five divides into two halves at around 1820, with each half possessed of distinct characteristics. In relation to verdict, the early Proceedings generally appear to report trials resulting in “guilty” verdicts in substantially more words than “not guilty” trials. As was evident when examining the overall distribution in trial length during the eighteenth century, the distribution of trial length by verdict reflects a changing pattern marked by rapid shifts in 1724, 1732, 1742, 1749, 1768, 1779, 1782 and 1790, with short periods of consistent reporting between. But Graph Five suggests a further layer of complexity, with selective reporting by verdict being applied very differently in what appear to be otherwise similar periods. Although, for instance, 1768 to 1779, and 1782 to 1790
witness a similar overall distribution of trial length between long and short reports the two periods saw substantially different levels of selection on the basis of verdict. The earlier period is marked by a pattern created through the very brief reporting of “not guilty” trials; while in the later period the pattern is dominated by longer reports of “guilty” trials.

Graph Five again provides strong evidence of the selective nature of the eighteenth-century Proceedings and contributes a further partial explanation of the bimodal distribution evident in trial length alone in this period. This supports Robert Shoemaker’s broad conclusion that eighteenth-century trial reports were biased, with trials resulting in a “not guilty” verdict being substantially under-reported in most decades. But Graph Five adds a proviso that this appears to have been substantially less true between, for instance, 1742 and 1749, and 1755 and 1768, and substantially more true between 1768 and 1779, and 1782 and 1790. Graph Five also modifies Simon Devereaux’s emphasis on the role of the Proceedings in promoting “public justice,” illustrating that it was the 1770s, rather than the 1780s or 90s (as Devereaux suggests) that saw the most fervent attempts to privilege the reporting of trials resulting in a guilty verdict.

In other words and as other measures of the eighteenth-century Proceedings have suggested, text mining for the distribution of verdict by the number of published words reflects the inconsistent and problematic relationship between trial reporting and court room behaviour through the end of the eighteenth century. And as we have seen through other measures, the nineteenth-century Proceedings look rather different.

From the mid-1820s, and then more dramatically from the 1840s, “not guilty” trials come to be reported at much greater length than those resulting in a “guilty” verdict. For the rest of the century including the period on either side of the transition associated with 1855, when the number of trials heard at the Old Bailey declines sharply, trials resulting in a not guilty verdict dominate reporting; while “guilty” trials are being reported in many fewer
words. Simon Devereaux has argued that the Proceedings were increasingly relied upon to track judicial decisions from the 1780s onwards and came to form an essential part of the pardon process from the end of the eighteenth century. This means “guilty” trials which set in train a whole new administrative process needed to be more carefully recorded than did those resulting in a “not guilty” verdict. The brevity of trial reports for “guilty” verdicts therefore provides alternative evidence for Malcolm Feeley’s conclusion that “plea bargaining” came to substantially impact on the nature of the nineteenth-century criminal trial.

To a very small degree these truncated “guilty” trials result from the exclusion of evidence heard at trials for rape and sodomy following 1787. And a handful reflects the changing role of medical evidence in scuppering a prosecution even after it had reached the court. But rape and sodomy trials made up only 1.8% of all trials heard after 1800; and while the changing role of medical evidence was important in the 1820s and 1830s, it ceases to figure in the creation of short trials from this period onwards. Instead, this pattern of reporting in which “guilty” trials were substantially shorter than those resulting in a “not guilty” verdict, included large numbers of trials where the defendant “pleaded guilty,” and were by extension subject to “plea bargaining”. In part this evidence provides a substantial context to the detailed work of Randall McGowen and Deirdre Palk on the application of a “plea bargain” system by the Bank of England in its prosecution of forgers in the wake of the passage of the “Possession of Forged Banknotes Act” of 1801. But text mining for “plea bargaining” also demonstrates that what McGowen and Palk have described as a narrowly focused legal strategy designed to respond to the development of easily forged banknotes from 1797 formed a component of a much wider and more fundamental transformation in the practise of criminal prosecution. By the second quarter of the nineteenth century, and, as Thomas Wontner observed in 1833, many defendants knew their “sentence before he went to
On the basis of a sample of one year in ten Malcolm Feeley has argued that the rise of “plea bargaining” began in 1835, and suggests that it grew to dominate court procedure by mid-century. Graph Five evidences an earlier and more gradual beginning to the phenomenon of pleading guilty in part grounded in the strategies of the Bank of England, but also responding to systemic changes in the wider criminal justices system that encompassed new forms of prosecution practise in a wide range of cases.

We can further test the rise of the “guilty” plea and the role of “plea bargaining” by comparing this early nineteenth-century data to the behaviour of the court as recorded as a series of tagged trial verdicts in isolation from the number of words used to report them--combining text mining with the statistical analysis of the legal process.

4. Testing nineteenth-century court behaviour

As well as recording more or less of what was said in court the Proceedings also record the legal niceties of each trial--the punishment, and as we have already seen, the charge and verdict. These measures have been “tagged” in XML and form a comprehensive, if schematic, record of every trial held at the Old Bailey from at least the early eighteenth century to 1913 (with the sole exception of the period between October 1792 and December 1793). The changing process of bringing a defendant to trial means that this data reflects courtroom behaviour rather than crime or levels of prosecution. But, while only a tiny proportion of arrests resulted in a trial, these measures accurately reflect the experience of the defendants who were unlucky enough to find themselves standing at the bar of the Old Bailey. We have already seen that the early nineteenth century witnessed a significant growth in the number of trials heard (see Graph One), we can also measure changes in both the number of defendants pleading guilty and the ratio between that number and all defendants found guilty.
Pleading guilty was relatively common in the late seventeenth century and overwhelmingly resulted in a punishment of branding, which implies that a form of plea bargaining was being practised. But for most of the eighteenth century Matthew Hale’s advice that defendants be encouraged to “plead [not guilty] and put himself upon his trial…” seems to have held sway, and a guilty plea became a rare legal peculiarity. Graphs Six and Seven suggest that this changed significantly in the nineteenth century starting from as early as 1801.

Graph Six: Guilty Pleas, 1674-1913 (32,272 trials).

Graph Seven: Guilty Pleas as a percentage of all verdicts, 1674-1913 (32,272 / 197,745 trials).
Graphs Six and Seven illustrate that both as an absolute number, and as a percentage of verdicts overall, guilty pleas began to rise from just after the turn of the century and grew steadily through the beginning of the 1830s, before rising dramatically over the course of the next two decades. Graph Seven suggests that this pattern then stabilised at around 30% of all trials (and 40% of all trials resulting a “guilty” verdict) before rising again from the 1880s to reach 40% of all trials by the turn of the century. Even among those accused of “killing” some 95 defendants pleaded guilty between 1825 and 1913, and their trials therefore appear among the shortest in the Proceedings. These guilty pleas imply a process of “plea bargaining” and support the broad outline of Malcolm Feeley’s analysis, as well as the importance of the role of the Bank of England from 1801 onwards.

The precise explanation for the transformation evidenced in the rise of “plea bargaining” is beyond the scope of this article and requires detailed archival research into the process that led from arrest to trial. In this context text mining and statistical analysis of the trial accounts alone can point to precise moments of transition, and broader patterns of change, but needs to be paired with close reading and archival research in order to fully
explain the forces in play. In particular work needs to be done on the use of “guilty pleas” in cases of theft; on the correlation between “plea bargaining” and the growing use of imprisonment from the late eighteenth century; on the impact of the rise of a professional police culminating in the establishment of the Metropolitan Police in 1829, and the declining role of the victim as prosecutor from 1836; and finally on the declining role of capital punishment. But, the impact of the structural change evidenced by the rise of “plea bargaining” can be seen in one final measure drawn from the Proceedings: conviction rates.
Graph Eight: Percentage of trials resulting in a “guilty” verdict. Nb. Between October 1792 and December 1793 trials resulting in an acquittal on all charges were excluded from the Proceedings. This exclusion has a marked and misleading impact on the moving average between 1777 and 1808; the apparently similar spike in convictions in 1706 results from a whole issue of the Proceedings being given over to a single trial, which was judged “guilty”. See s17061206.

Graph Eight illustrates the substantial increase in the percentage of trials resulting in a guilty verdict, and correlates strongly with the rise of “plea bargaining”. From a relatively low conviction rate (in the region of 55-65%) during the eighteenth century, the first half of the nineteenth century sees a steady increase to between 70 and 80% in the 1840s and 50s before declining somewhat in the 1860s and 1870s (modern British convictions rates are just above 70%).

Overall, these statistical measures of courtroom behaviour evidence a substantive change in the nature of the Old Bailey criminal trial over the course of the first half of the nineteenth century. The rise of the “plea bargain” fundamentally transformed the experience
of the defendant, who by mid-century could almost guarantee that an appearance at the bar of the Old Bailey would result in only one verdict: guilty.

5. Conclusions

Text mining in combination with the comprehensive statistical analysis of the Proceedings made possible by the creation of a digital edition, changes how we read these materials as evidence of courtroom procedure. For eighteenth-century legal history, text mining for trial length suggests that in the eighteenth century the content of the Proceedings was significantly determined by factors beyond the run of court business; and that the relationship between what was published and what occurred at the Old Bailey changed from decade to decade and from year to year. This article suggests that before we can use the Proceedings to chart the evolution of court practise, or the rise of legal counsel, we need to incorporate a much more granular and detailed understanding of the processes that created trial reports prior to 1800. In contrast, for the nineteenth-century history of the court, this article argues the Proceedings represent a much more accurate reflection of courtroom practise and behaviour than was the case in the preceding century. More than this, it argues that the rise of guilty pleas and “plea bargaining” and the growing conviction rates that mark the first half of the nineteenth century, and the dramatic fall in the number of trials heard at the Old Bailey in 1855, exposed through a combination of text mining and statistical analysis reflects the dramatic evolution of court practise between 1800 and 1860.

Detailed archival work is needed to compliment the “macroscopic” view provided by text mining. The professionalization of the police, the growing role of imprisonment, the changing role of the grand jury, and lawyerisation (among a host of other influences) contributed to the changes identified here. But this methodology suggests that while historians of crime and the legal system have tended to place the major moments of transition
in the evolution of the trial in the last quarter of the eighteenth-century and associated it with the rise of defense counsel and the adversarial trial, they have done so on the basis of a source which cannot be relied upon at this date. The methodologies deployed here suggest that when measured as both a text and a record of criminal administration, the Proceedings evidence a marked and substantial transition in the nature of the trial process as a whole clearly located in the first half of the nineteenth century.

Text mining as a methodology helps us to test and problematize the assumptions we bring to the evidence we rely upon - to test both the quality of that evidence, and the ways we use it. In this instance, it allows us to explore a text so voluminous that it could never be read in its entirety by a single person. It does not replace “close reading” and traditional archival research, but it does create a kind of macroscope, allowing us to locate patterns made invisible by the sheer volume of inherited text. As the billions of words that make up newspapers, parliamentary reports, and novels become increasingly available in a digital form, text mining provides a new and different perspective. By analysing these sources in light of the one characteristic they all share (their textuality) text mining allows us to combine a close reading of detail with the ability to focus on the broadest picture, to see patterns from a distance and to set new paths through the thickets of description.

In 1833 Thomas Wontner observed that defendants at the Old Bailey frequently lost their way in the speed and complexities of the trial process, that, “on their return from their trials, [they] cannot tell of any thing which has passed in the court, not even very frequently whether they have been tried.” Text mining the Proceedings allows us to see the criminal trial in the round even when the crush of data leaves us confused, declaring with the defendants of the 1830s, “It can’t be me they mean; I have not been tried yet.”52
1 See Old Bailey Proceedings Online (www.oldbaileyonline.org, version 6.0 17 April 2011), February 1685, trial of Elizabeth Draper (t16850225-31); and May, 1856, trial of William Palmer (t18560514-490).

2 The uniquely accurate character of this transcription is the result of the project’s use of “double entry rekeying” to capture the original material up to 1834, and a combination of rekeying and Optical Character Recognition (OCR) for the period 1834 to 1913. The resulting text is 99.99% accurate. This in turn, allowed a complex XML tagging schema to be applied to the transcribed text, reflecting offence, verdict, punishment, etc. In contrast, the vast majority of historical resources have used an unchecked OCR methodology, which when applied to historical materials results in a significant level of error, making the resulting digital resources more difficult to use in text mining, and largely impossible to tag accurately for structured information. The character and word accuracy rate across the whole of the British Library’s Nineteenth Century Newspaper Project, for instance, is 78% for characters, and 68.4% for whole words, implying that almost one in three words is miss-transcribed. See Simon Tanner, Trevor Muñoz, and Pich Hemy Ros, “Measuring mass text digitization quality and usefulness: lessons learned from assessing the OCR accuracy of the British Library’s 19th century online newspaper archive,” D-Lib Magazine, July/August 2009, Volume 15 Number 7/8.

3 “Text Mining is the discovery by computer of new, previously unknown information, by automatically extracting information from different written resources. A key element is the linking together of the extracted information together to form new facts or new hypotheses to be explored further by more conventional means of experimentation.” Marti Hearst, “What is Text Mining?” (October 17, 2003), School of Information Management and


7 Langbein, Origins, 190--reiterating, without revision, his judgement on the Proceedings originally made in 1978.
Most historians have accepted Langbein’s observation that “if the Sessions Paper “report says something happened, it did; if the … report does not say it happened, it still may have.” Langbein, Origins, 185, again quoting himself circa 1983.

The Trial of Elizabeth Canning, Spinster, for Wilful and Corrupt Perjury; at Justice Hall in the Old-Bailey … 1754 (London: John Clarke, 1754), 19-20, 104. Quoted in Huber, section 3.2.2.2.

See OBP, September 1785, t17850914-163.


OBP, March 1895, John Sholto Douglas (t18950325_336); April 1895, Oscar Fingal O’Flahartie Wills Wilde and Alfred Taylor, (t18950422-397); May 1785, Oscar Fingal O’Flahartie Wills Wilde and Alfred Waterhouse Somerset Taylor, (t18950520-425).


All programming for this project was done by Turkel in Mathematica 8 and 9 on Mac OS X. Mathematica is a proprietary development platform from Wolfram Research that is designed for technical computing. It integrates mathematical and scientific computing, visualization, data manipulation, and access to curated data, with the possibility of
deploying documents that mix text and data with dynamic elements. See 

16 The “tagging” was done in XML, and the files for each trial, incorporating the full XML 
mark-up are available on the Old Bailey online site.

17 The “mining” of the Proceedings involved stripping out all XML markup, eliminating non-
Latin and numeric characters, converting the text to lower case, and removing all 
punctuation. The resulting edition standardised the texts, facilitating counting words in a 
consistent manner. It should be noted, however, that there is a significant disagreement 
among linguists about what should count as a “word”. Is, for instance, the formulation 
“John's” one word, or two (i.e., name + possessive marker)? Larry Trask, “What is a 
word?” (2004), Department of Linguistics and English Language, University of Sussex 
what_is_a_word.pdf.

18 The relationship between the number of “defendants” and “trials” for all complete decades 
(1720-1910) averages 1.32 defendants per trial. This ratio is slightly more variable prior 
to the early nineteenth century. For 1720 to 1810 this ratio ranges between a low of 1.18 
defendants per trial in the 1800s, and 1.58 in the 1750s. The ratio of defendants to trial 
from the 1810s onwards was more consistent, and ranged from 1.20 defendants per trial in 
the 1830s to 1.32 defendants per trial in the 1880s. The relationship between the number 
of “offences” and the number of “trials” was more consistent in all periods, averaging 1.07 
offences per trial, and ranging from 1.02 offences per trial in the 1810s, to 1.19 in the 
1900s.

19 Additional graphs, colour versions of all published graphs, and the underlying datasets 
upon which they are based, are available at: [DETAILS TO BE SUPPLIED BY THE 
JOURNAL]
These sub-periods were initially identified using an unsupervised algorithmic “clustering” technique, but the final selection of the boundaries was left to the judgement of a human observer, following multiple iterations of different clustering visualisations. Christopher D. Manning, Prabhakar Raghavan, and Hinrich Schütze, *Introduction to Information Retrieval* (Cambridge: CUP, 2008).

The *Proceedings* have not survived or were not published for approximately one-third of the sessions between 1674 and 1714. See Emsley, et al, “Publishing history of the *Proceedings, ”* OBP.


Langbein, *Origins*, 188. A measure of the relatively insecure and changeable nature of the role of shorthand reporter for the *Proceedings* can be found in Edmund Hodgson’s subsequent decline into abject poverty, and his eventual death in the workhouse belonging to St Andrews Holborn. See *The Monthly Magazine, Or, British Register Vol.XXXIV, Part II. For 1812*: 506.

Devereaux, “City and the Sessions Paper.”


This is not to imply that what was recorded in the Proceedings reflects accurately what was said in court, but merely that the relationship between the two remained the same from 1810 to 1855. The exclusion of sexually explicit evidence from trial reports from 1787 onwards is one measure of the distance between courtroom evidence and trial report (and helps explain historians’ relative disinterest in the nineteenth-century Proceedings).

Simon Devereaux, “City and the Sessions Paper”: 481.

The Criminal Justice Act, 18 & 19 Vic. c.126 (1855) established summary jurisdiction on a clearly defined basis, allowing people charged with minor theft and other offences to be convicted by two justices. This act was amended only slightly by the Summary Jurisdiction Act, 42 and 43 Vic. c.49 (1879). Emsley, *Crime and Society*: 216. For a statistical approach to the impact of this legislation see Chris Williams, “Counting crimes or counting people: some implications of mid-nineteenth century British police returns” *Crime, Histoire & Sociétés/Crime, History & Societies*, 4, 2 (2000): 77-93.

Shoemaker uses a sample of 271 trials drawn from the January sessions of 1720, 1730, 1740, 1750, 1760 and 1770, and Malcolm Feeley has created a larger sample of 3,500 trials (though Feeley charts a measure of “complexity” rather than trial length per se). Shoemaker, “Representation of Crime”: 567; Feeley, “Legal Complexity,” 185. Both Simon Devereaux and John Langbein appeal to changing character and length of trial reports, but do so on a more impressionistic basis. Devereaux, “City and the Sessions Papers”: 468; Langbein, *Origins*: 188.

Since the distributions of trial lengths are not normal, mean or average word length is misleading in almost all cases. For more information about the breakdown of the mean


32 The use of a logarithmic scale in this chart substantially impacts on how we read the data. It groups, for example, trials between 10 and 100 words in length within the same vertical measure as trials between 1000 and 10,000 words. This has the effect of understating the differences in trial length at the upper end of the range; while overstating the differences at the lower end - so that the apparent difference in trials between 10 and 60 words, is equivalent in this graph, to the difference between a trial of 10,000 words and 60,000.

33 OBP, 3 December 1729, 17291203-1; Shoemaker, “Representation of Crime”: 566.

34 OBP, 7 December 1748, f17481207-1.

35 John Lanbein mentions the public announcement of this policy change, but does not describe its impact. Langbein, *Origins*: 186. The policy announcement is published on the title page of all issues of the *Proceedings* from 7 December 1748 to 25 April 1750, but the four pence price continues to be advertised until 25 June 1761, through the proprietorship of five different printers and ten different Lord Mayors. By the 21 October 1761 issue, the advertised price had risen to six pence.


37 Langbein, *Origins*: 188.

38 Feeley, “Complexity”: 194.

40 These categories of crime are taken from the Old Bailey Online XML markup, and include a variety of sub-categories. Their application to specific trials was undertaken as part of the original development of the website, and reflects the project’s retrospective historical judgement. See OBP, Emsley, et al, “About this project.”


42 Devereaux, “City and the Sessions Papers,” 468.


44 For the period from January 1801, to the end of the Proceedings, there were 1662 trials for “Rape,” 978 for “Sodomy,” out of 145031 trials in total.


46 MacGowen provides national returns for prosecutions led by the Bank of England in forgery cases under the new Act, which suggest that the Bank was the leading agency in the process of developing “guilty pleas” from the mid 1800s. But, it should be noted that at the Old Bailey, the first substantial set of “guilty pleas” for forgery is recorded in 1813, three years after the first large batch (27) of “guilty pleas” recorded in theft cases in 1810. McGowen, “Managing the gallows”: Table 1. For theft cases see, for instance, OBP, Anne Cotterell, t18100110-7.

The history of the criminal justice system has long been dogged by the “dark figure of unrecorded crime,” that ensures that the relationship between levels of prosecution and crime itself is impossible to establish. For a recent survey of the literature on this problem see King, Crime and Law: 228-9.

In the period prior to 1734, a total of 731 “guilty pleas” were recorded, of which 431 resulted in the defendant being sentenced to branding, while no punishment was recorded in a further 179 cases. The legal difficulties of accepting a guilty plea in this early period were rehearsed in the trial of Mary Aubry for the murder of her husband in 1688, at which the court explicitly advised her not to enter a guilty plea on the grounds that on a charge of murdering her husband, her death by burning would automatically follow. She nevertheless refused, pleaded guilty and was sentenced to be burned for “petty treason”. OBP, February 1682, Mary Aubrey, t16880222-24.


Mark Haller, “Plea bargaining,” 273-279. The role of capital punishment changed more gradually than this suggests; its use for property crime in particular, being substantively reduced in 1826-7, and largely abolished in 1837, before being comprehensively reformed in 1841.

Wontner, Old Bailey Experience, 60.