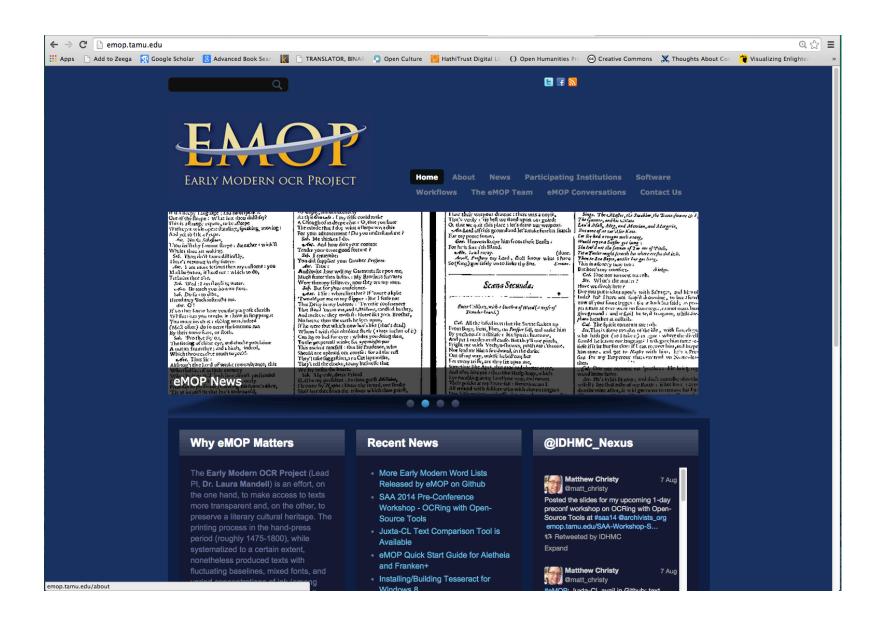
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23 October 2014
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Tools



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2 HISTORY





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Keyboard Shortcuts

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Optional Markup for TypeWright

TypeWright offers the option of inserting more detailed information about the text being transcribed and verified. The following lists some of the optional markups that may be used in TypeWright.

MARKUP	TAG/ATTRIBUTE
Italics	<hi rend="italic"></hi>
Boldface	<hi rend="bold"></hi>
Superscript	<hi rend="sup"></hi>
Subscript	<hi rend="sub"></hi>
Smallcaps	<hi rend="smallcaps"></hi>
Underlining	<hi rend="underline"></hi>
Centered Line	<hi rend="center"></hi>
Drop Cap	<hi rend="dropcap"></hi>
Page Header	<fw type="header"></fw>
Page Number	<fw type="pageNum"></fw>
Signature Mark	<fw type="sig"></fw>
Catchword	<fw type="catch"></fw>
Strikethrough	<del rend="overstrike">
Inverted character	<c rend="inverted"></c>

markup

For more details on the Markups that TypeWright recognizes, visit the TypeWright Markup Page

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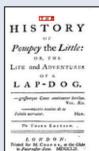
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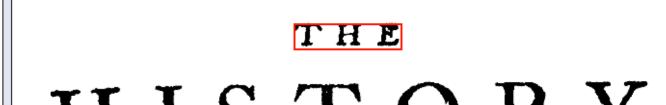
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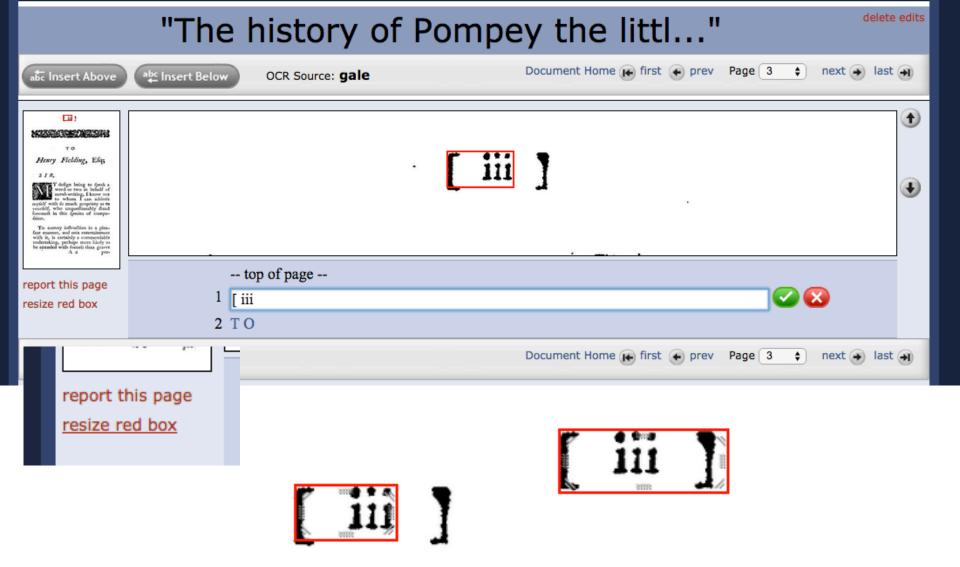
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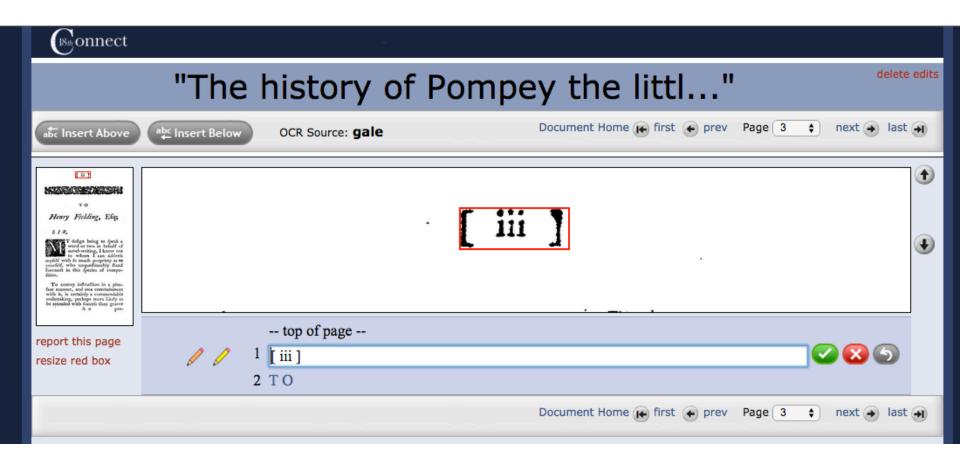
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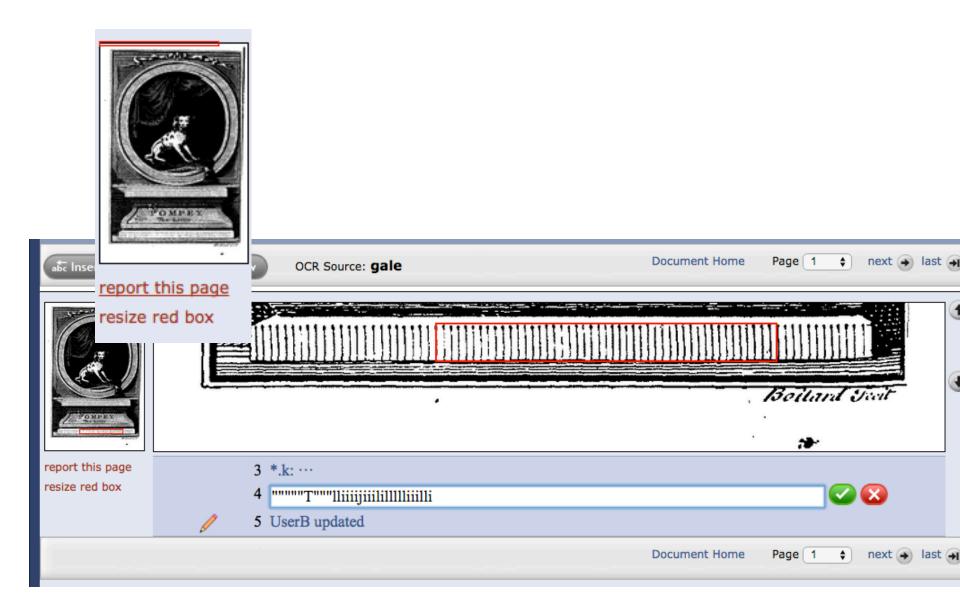
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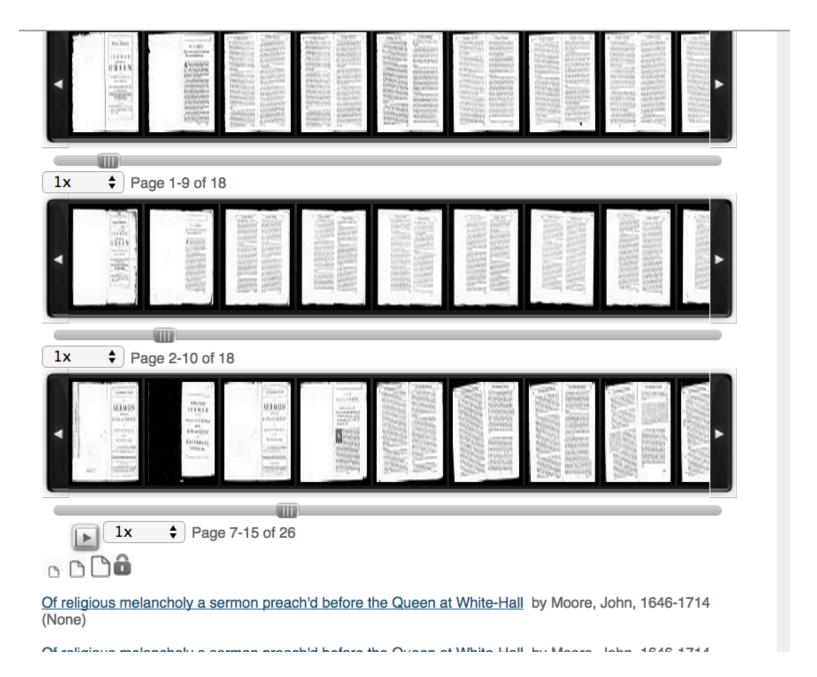
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() OF Religious Melancholy. A SERMON Preach'd before the QUEEN AT WHITE-HALL, March the 6th, 1691/2. By the Right Reverend Father in God, John, Lord Bishop of Norwich. Published by Her Maiesty's special Command. The Second Edition. LONDON: Printed for William Rogers at the Sun over against St. Dunstan's Church in Fleetstreet, 1692.



















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- ReadMe Installation and usage information.
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Supported Platforms

Tesseract works on Linux, Windows (with VC++ Express or CygWin) and Mac OSX. See the ReadMe for more details and install instructions. It can also be compiled for other platforms, including Android and the iPhone, though these are not as well tested platforms. See also the AddOns page for other projects using Tesseract on various platforms.

If you're interested in supporting other platforms or languages, please get in touch with Ray Smith or the <u>Developers</u>.

A Note about Downloads

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ASPECIMEN

By W. CASLOA, Letter-Founder, in Chilwel-Street, LOADOA. 1742.

ABCDEFGHI ABCDEFGHIJK ABCDEFGHIJKL ABCDEFGHIKLMN **ABCDEFGHIKLMNO**

Quousque tan-Quousque tandem

Quousque tand Quousque tandem

Ouousque tandem Quousque tandem a-

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Two Lines Pica. Quousque tandem abutere, Catilina, patientia nostra? qu-Quousque tandem abutere, Catilina, patientia nostra? quam-

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na, patientia nostra? quamdiu

na, patientia nostra? quamdiu nos ctiam furor iste tuus cludet? nos ctiam furor iste tuus cludet? ABCDEFGHIJKLMNOP

PARAGON ROMAN.

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ENGLISH ROMAN. ExoLIB ROMAN.

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Pica Roman. No 1:

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timor matintifium kabendi fentum locus, milli broum BCDEFGHIJKLMNOPQRSTVUWXY

Quoufque tandem abutier, Catilina, patientia softm? quandia not eitam abutier, Catilina, patientia softm? quandia not eitam ei

SMALL PICA ROMAN. No 1.
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inem fele efferatus jackabit audacia? rhibites te nofturnum pratidium polatii, ribii urbis vigilie, nihli timor
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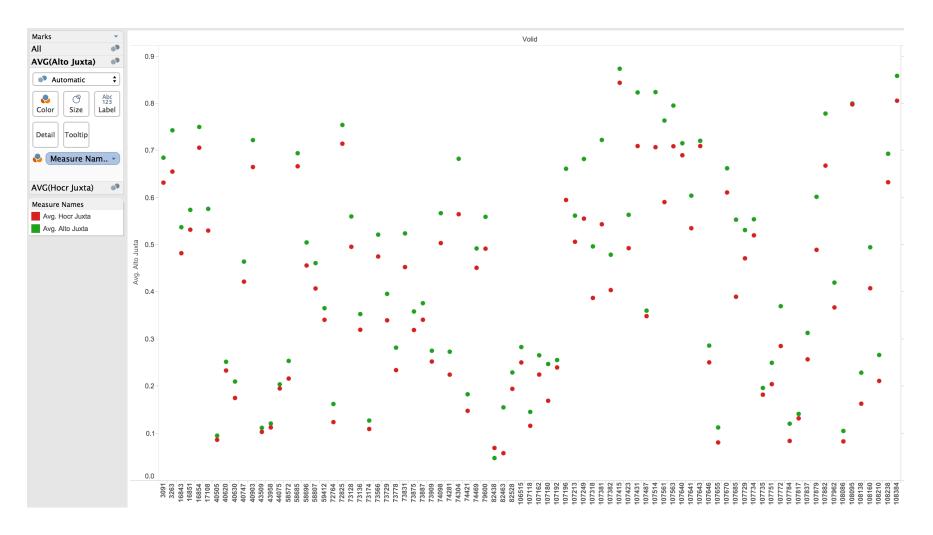
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About

Franken+ was developed by Bryan Tarpley at the Initiative for the Digital Humanities, Media, and Culture at Texas A&M University. It is a specialized tool designed to allow users to perform OCR on historic fonts. Franken+ ingests output from PRIMALab's Aletheia (currently, only output from Aletheia version 2.1 is supported, which is still available for download on their site under "previous version"). Aletheia allows the user to open a scanned text document, binarize it, and draw boundaries around each individual character (among many other things). Franken+ currently only works with Aletheia projects wherein the characters have been outlined using polygons (not boxes). Once each character has been bounded appropriately, Aletheia saves the project as an XML file which adheres to PRIMA's PAGE XML format. Provided the binarized image and the resulting XML file generated with Aletheia, Franken+ extracts individual .tif images for each letter blocked-out using Aletheia, giving the user the opportunity to hand-pick the best instances of each letter (thus producing a "font" consisting of only hand-picked images). Using this font, Franken+ can then create synthetic TIF images of text "printed" using this font, with corresponding BOX files, which are then used to train Google's open-source Tesseract OCR engine in order to OCR images of documents printed with the relevant historic font. Using these synthetic images and their corresponding BOX files, Franken+ then automates the Tesseract font training process and allows a user to test this font.

PageCorrection Tool



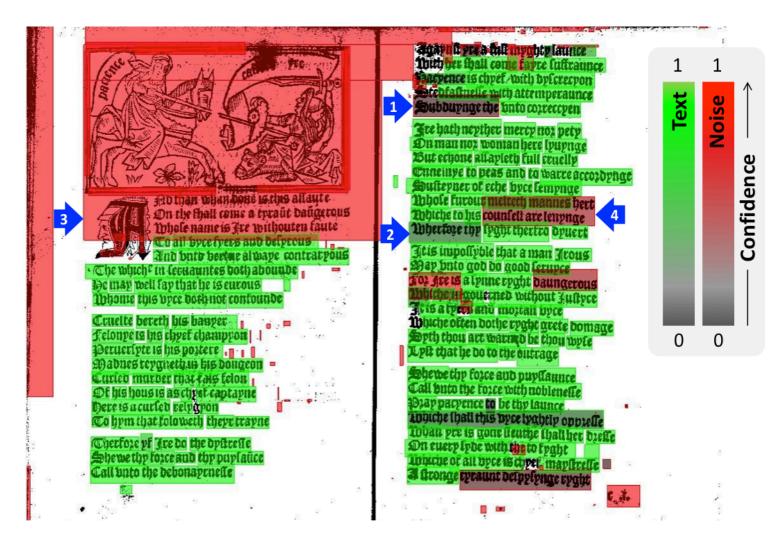


Fig. 6. Iterative relabeling results for a test image. Color denotes MLP confidence: the more saturated, the higher the confidence. Red: noise; green: text

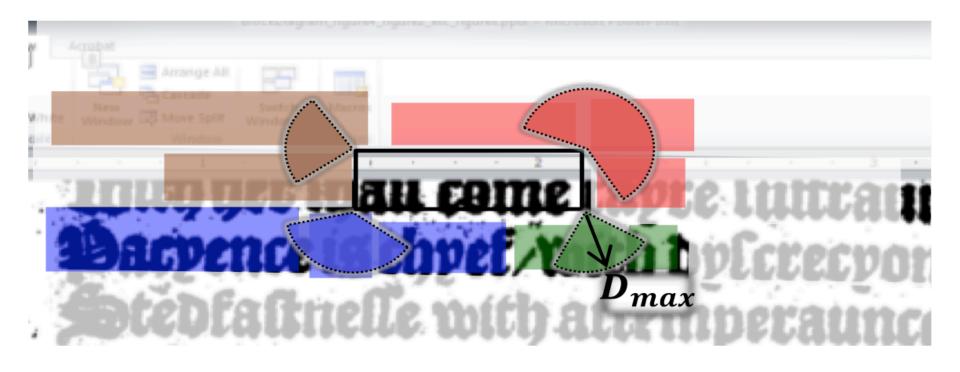


Fig. 3. Finding nearest neighbors. Only those within \mathbf{D}_{max} from the corners of the target BB (outlined) are considered. Colors indicate the corner to which neighbors are assigned

Automatic assessment of OCR quality in historical documents

Anshul Gupta¹, Ricardo Gutierrez-Osuna¹, Matthew Christy², Boris Capitanu³, Loretta Auvil³, Liz Grumbach², Richard Furuta¹, and Laura Mandell²

¹Department of Computer Science and Engineering, Texas A&M University
²Initiative for Digital Humanities, Media, and Culture, Texas A&M University
³Illinois Informatics institute, University of Illinois at Urbana-Champaign

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Abstract

Mass digitization of historical documents is a challenging problem for optical character recognition (OCR) tools. Issues include noisy backgrounds and faded text due to aging, border/marginal noise, bleed-through, skewing, warping, as well as irregular fonts and page layouts. As a result, OCR tools often produce a large number of spurious bounding boxes (BBs) in addition to those that correspond to words in the document. This paper presents an iterative classification algorithm to automatically label BBs (i.e., as text or noise) based on their spatial distribution and geometry. The approach uses a rule-base classifier to generate initial text/noise labels for each BB, followed by an iterative classifier that refines the initial labels by incorporating local information to each BB, its spatial location, shape and size. When evaluated on a dataset containing over 72,000 manually-labeled BBs from 159 historical documents, the algorithm can classify BBs with 0.95 precision and 0.96 recall. Further evaluation on a collection of 6,775 documents with ground-truth transcriptions shows that the algorithm can also be used to predict document quality (0.7 correlation) and improve OCR transcriptions in 85% of the cases.

from microfilm converted from photographs –four decades and three generations away from the originals.

Motivated by these issues, in 2013 we started the Early Modern OCR Project (eMOP; http://emop.tamu.edu) with funding from the Andrew W. Mellon Foundation. eMOP is a two-year mass digitization project that seeks to improve OCR for some 45 million pages from the Eighteenth Century Collections Online (ECCO) and Early English Books Online (EEBO) proprietary database products. Beyond producing accurate transcriptions for these collections, eMOP aims to create tools (dictionaries, workflows, and databases) to support scholarly research at libraries and museums. Much like our team, these organizations lack the resources to manually transcribe their collections or contract with commercial OCR services (e.g., Prime Recognition Corp.) As such, and as required by Mellon, all tools used and produced by eMOP must remain free or open-source.

As a step towards this goal, this paper describes an approach to assess the quality of historical documents that

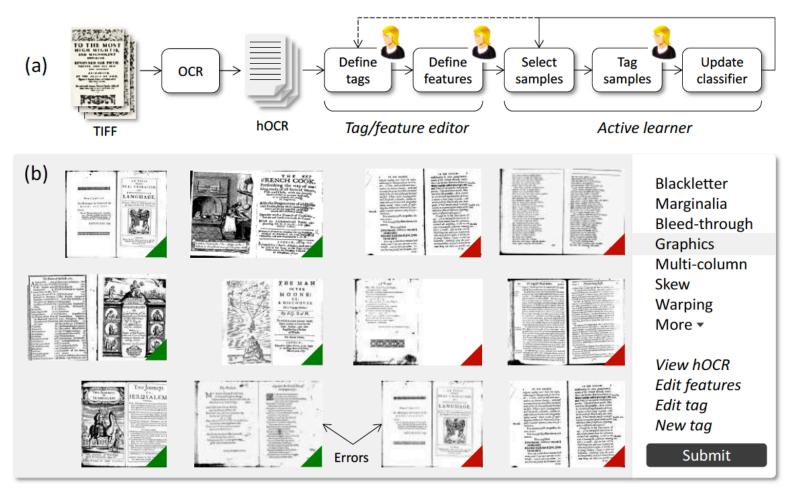


Fig. 1. (a) Stages in the interactive machine learning pipeline. (b) Mockup of the tagML interface

Results

EEBO Sample

[4]

These things being observed it must be considered, that the Facts now in effect charg'd against the Dutchess, are suggested to be done many years since, and were debated and confidered before the Peers, before the rejection of the two first Bills, and long before the Agreement for putting an end to all Controversies and Debates.

Now 'tis very hard to put the *Dutchels*' to account again, for those very Facts, confidering that after eight or nine years, many People are dead, others differried, and not in a little time to be found out, and circumstances of times and places (which in the nature of all these Cases is almost all that is left to discover a Fallity) forgot,

The Dutchess is also under the unavoidable necessity of proving a Negative a-gainst down right Swearing, and that without any matter Introductory, and also by two mean Servants, the one turned out of her Place for keeping company with Foot Souldiers, and the other leaving his Place in difguft, because he could not have

Foot Souldiers, and the other leaving his riace in angun, occause he could not have the Play Money.

Matters are already too much in the power of their Servants, and if they charge their Matters with Adultery, Pelony and even 'Treation, it is not cally in the power of the Matter to defend himself against down right Swearing; Servants having those opportunities of the knowledge of times and places and Company, which cannot be denied or avoided, and which others have not, whereupon they may frame and build talse Evidence, and many times are of ill Principles and defined frames very Reveneeful. to that whoever truns and of tempers very Reveneeful, to that whoever truns and or may rame and dum faite Evidence, and many times are of in Frinciples and deti-perate Fortunes, and of tempers very Revengeful, to that whoever turns a way a Servant, he is in his power for his Effate, Honour and even Life it felf. And there-tore for the fafery and freedom of Families in other Countrys, they are not permit-ted to be Evidence against their Masters, in any master criminal whatfoever.

Note allo the Dutches thinks, She as an English Subject has by Magna Cirtic the lame right to a Tryal in the Legal and ordinary way of Julice, as the self of the Kings Subjects, effocally confidering that there never ver was in English on Precedent, of a Bill exhibited in Parliament to diffolio a Marrage at the first instance, without any previous proceedings in the Ecclesiatical Courts; (which in these Cases is the Law of the Land) and not above Five or Six Bills, in above 600 years ever passed to dissolve Marriages, or make Second Marriages good, even after there had been a divorce in the Spiritual Courts, and those Bills

good, even after there had been a divorce in the Spiritual Courts, and those Bills too in Case generally where the Husbands were without any recrimination.

No Impediment appears why the Duke should not have endeavoured a Divorce at Law, before he had attempted a Bill to dislove the Marriage. For any Application to the Legislature, for Tryal of matters of Private right, is improper, because there are proper Judicatures, that give that remedy the Law allows.

To ask any thing of the Legislature, in private Causes between Party and Farty, beyond what the known Laws in force give, seems to be improper, a because.

- 1. It is to make a Law in one persons Case, which is not the Law in ano-
- 2. It is to retrospect actions, and after the Fact to Augment or alter the Penalty. Our Laws are certain, and known, that persons may conform their actions to them.
- The Courts and Forms of Law are equally the Subjects right with the Law, and the application to the Legislature, takes away all that right of Form and Charging, whereas a certainty in time to Answer, and exceptions to Witnesses, and other Legal defences of the Fact, cannot be denyed the meanest

Subject.

The confequence that fhort and fummary ways of proceedings, may have on the Settlements of Eflates and Families, may be very dangerous, and though the Duke of Norjok's Bill paffed the House of Poere, yet a great number of the Peers both Spiritual and Temporal entred their Protest against its Passing, and their retibers for it.

their reations for it.

If ought to be no prejudice to the Dutches, that the next Heir prefumptive to the Duke, doth nor as yet appear to be a Protestant, because when a Bill which hath lately passed both Houses is become a Law, it is not likely that Noble Family will be without a Protestant at the head of it.

Noble framily will be without a frotestant at the nead of it. If any of the Witneffes formerly examined on the Bill in 1691, be now again produced, it is humbly apprehended, that as the validity of their testimony they then gave was totally overthrown, by a great number of Witneffes, so it will be again tho' under the disadvantage of the great distance of sime.

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1- It is to make a Law in one persons Case, which is not the Law in anothers. 2.1t is to retrospect actions, and after the Fact to Augment or alter the Penalty. Our Laws are certain' and known, that persons may conform their actions to them-

'The Coutts and Forms of Law are equally the Subjects right with tho Law, and the application to the Legislature' takes away all that tiglic of Foism and Charging, whereas a certainty in time to Answer, and exceptions to Witnesses' and other Legal defences of the Fact' cannot be denyed the meanest Subject.

The consequence that short and summary ways of proceedings, may have ori the Settlements of Estates and Families, may be very dangerous' and though the Duke of Nors?)lk's Bill nailed the House of peerffi yor great number Of the years both spiritual and Temporal entred their Protest against its Passing' and their reasons for it.

It ought to be no prejudice to the <u>Dutchess</u>, that the next Heir presumptive to the Duke, doth not as yet appear to be a Protestant, because when a Bill which hath lately palled both Houses is become a Law, it is not likely that Noble Fatuity will be without a Protestant at the head of it.

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produced' it is humbly apprehended' that as the validity of their testimony they then gave was totally overthrown, by a great number of Witnesses, so it will be again tho' under the disadvantage othe great distance of time

(II)

Thro' Error's maze a Leader she would prove, And light the Lamp of pure celestial Love?

On Thule's heathy heights fee VIRTUE stand,
With ling'ring looks, prepar'd to leave the Land!
To waste in northern night the lonely hour,
And mourn 'mid Hecla's caves her ravish'd pow'r:
See fond Affection warn her e'er she slies,
And turn to you her supplicating eyes;
Where Hope still struggles thro' each chrystal Tear,
That watry shines, and streaks the gloom of Fear!

ECCO Sample

Recall her with your fmiles, confirm her reign, The trait'rous Rival of her empire flain!

For yours, for Albion's fake retard her flight;

When Virtue fets, 'tis Beauty's blackeft night.

In vain you'll mourn the abfence of her ray,

To ruthlefs Luft an unrefifting Prey!

Find civil Order to Confusion hurl'd,

And mental Darkness overwhelm the world!

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Again

Work: On illicit love. Written among the ruins of Godstow nunnery, near Oxford. By John Brand, ...

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•		<>		12	0.96	0.772
•		O		13	0.94	0.752
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•		O		15	0.902	0.691
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•		6		19	0.89	0.684
•		6		20	0.97	0.789
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<< Back To Dashboard



(11)

Thro' Error's maze a Leader she would prove'
And light the Lamp of pure celestial Love?

On Thule's heathy heights fee VIRTUE stand, Wich ling'ring looks' prepar'd to leave the Land! To 4waste in northern night tho lonely hour'

And mourn 'mid <u>Hecla's</u> caves her <u>reviih'd</u> pow'r: See fond Affection warn her e'er ihe flies'

And turn to you her supplicating eyes;

Where Hope still struggles thro' each chrystal Tear' That watry ihines' and streaks the gloom of Fear!

Recall her with your <u>smilos</u>' confirm her reign'
The <u>trait'rous</u> Rival of her empire <u>ilain</u>!
For yours' for Albion's fake retard her flight;
When <u>Vir'tue</u> sets' 'tis Beauty's blackest night—
In vain you'll mourn the absence of her ray'
To ruthless Lust an <u>unrelisting</u> Prey!
Find civil Order to Confufion hurl'd,

And mental Darkness overwhelm tho world!'

$[\cdot_3]$

IT may be Objected, That the Burgesses who returned the Sitting-Members had not the Precept with them to produce to the Sheriss when they made the Return; and that the Petitioners had the Precept, and produced it with their Return, which was tendered to the Sheriss, and resused.

IT is Answered, First, That this Fact is not insisted upon in the Petition, nor made any Part of the Petitioners Complaint; and it is apprehended, that no Objection can be taken in the House but what is contained in the Body of the Petition.

Secondly, BUT if this Pact be admitted, it is infifted, that by the 23 H. 6. ch. 15. it is directed, that the Precept be returned by Indenture; but it is not necessary the Precept should be annex'd to the Indenture, or delivered to the Sheriss with it, and the Practice is generally otherwise; for in this present Parliament, there are near Three Hundred Members who have no Precepts annexed to their Returns. An Indenture between the Sheriss and the Returning Officer, mentioning the Election to have been made by Virtue of a Precept to him directed, is certainly good, which shews the Precept need not to be annexed to the Indenture.

IF it be Objected, That tho' the Precepts are not always returned by the Sheriffs to the Clerk of the Crown, yet they must be delivered to the Sheriff by the Returning-Officers; it may be Answered, That it being not necessary for the Sheriff to return the Precept with the Indenture to the Clerk of the Crown; neither can it be necessary to be return'd to the Sheriffs by the Parties with their Indenture; for this being a Matter which concerns the Sheriff's personal Satisfaction only, it remains absolutely in his Breast, whether he will call for it or not; and it can be no Error if he accepts a Return without it; and in common Cases of Process, the Officer that hath the Sheriff's Warrant, doth not after Execution of it, deliver it back to the Sheriff.

WE apprehend, that the Precept being by this Petition admitted to be directed to the Burgesses and Electors only, and the Return which was tendered by the Petitioners, being also thereby admitted to be a Return of the Constables and Burgesses; this Return was not made by the Persons to whom the Precept was directed; and therefore was not proper to be received by the Sheriss, nor such as the House can now accept; for the Precept ought to be returned by the same Persons to whom it is directed.

I T may be Infifted, that these are Points in Law proper to be argued by Council; and therefore sit to be referred to a Committee, and the Merits of the Election to be Heard at the same Time.

AS to the Sheriff's proceeding in this Matter, it was with the greatest Fairness; for the Return of the Sitting-Members, was brought to him about Seven or Eight in the Evening, of the Day of the Election, and he did not forward it for London till the next Day.

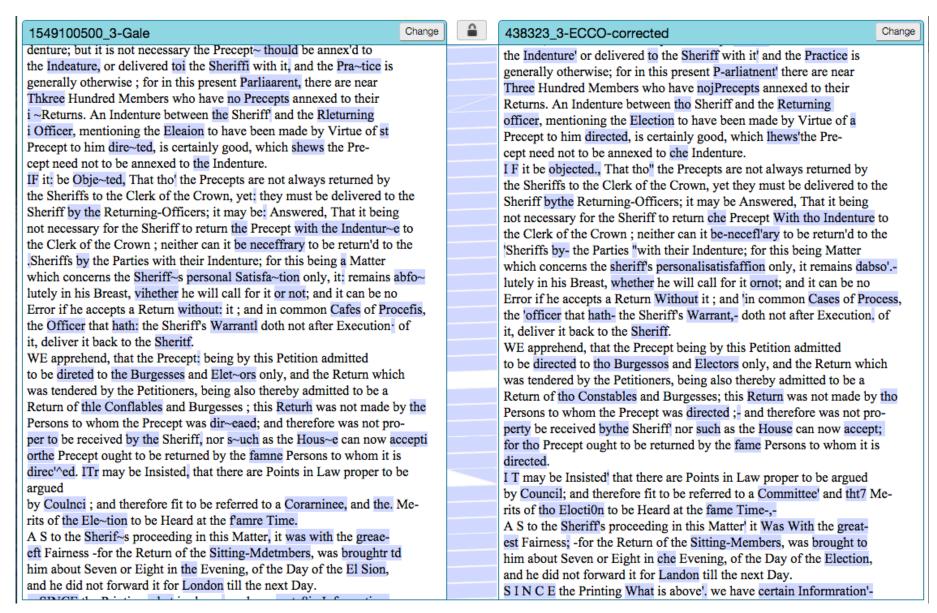
SINCE the Printing what is above, we have certain Information, That the Precept was not produced to the Sheriff, with the Return of the Petitioners; neither was there ever any Precept Return'd, with any of the Indentures, for former Elections in Minehead; or any Precept Return'd, with any of the Indentures, for any Election for this Parliament, in any Borough of the County of Somerset, of which Minehead is one.

Using Prime Recognition

 $\Theta \Theta \Theta$ 438323 2-ECCO-corrected.txt > A N at all Times' during the Memory of Man'' Whenever any E-.lection' Was Controverted (till the vlyast Parliament'of''Queen Anne) 't'lie Constables never so much as pretended to prefide as Judg'es of che :Poll ; but the Candidates of each Side, Chose out othe Body othe Burgesses, such Persons as they Agreed upoil to direct and take tho Poll. A T tho last Election, tho Precept' according to the Ancient Usage, was directed to the Burgolses and Electors in General ;v who in pursuance of the Precept' Elected che Sitting-Members, 'Mr''. Edwin' and Mr. Gage, by a fair and undoubted Majority, and by their Indenture duly Executed, Returned them to the Sheriff accordingly-The Petition. BUT now a Petition is prefered in the Lathe of constables' and several Voters' in behalf of themselves and Other Voters of thebaid Borough, against this Return; Suggesting' That the Constables are tho Presiding and Returning (')fflcers' and that the Precepts are directed Gage' Esquires. livered to him as a Burgess only, fzi'-q:iz: and deliver'd to them; and that the 'nOW-Sh'eriff directed his -Pre Burgensthtu keys Electrinus Burgi de Minohoad ; but deliver the Constables, and took his Receipt for it. TH AT the Election being upon tho 11th of -April last, the Candi. dates wore Sir John Trevelyc'm, James Milner-' Samuel Edwin' and Thomas copt 'd lt to Offer (')f T 1-1 A T the Petitioners, the Constables, Declared Sir John Trevegyazi, and Mr. Milner, duly Elected ; j and thereupon Indentures were duly Executed by che Constables' and Majority othe Burgeffes'a.nd Electors,' and tendered to the Sharest by order of the Constables : But the Sheriff refused to receive it; but has Return'd Mr. Edwin and' Mr. Gage.. by Virtue- of other Indentures brought to the Sheriff' 'not by the proper Returning slicers of tho said Borough-, but by other Persons who Signed it, - toth prejudice Of the Petitioners'; who therefore Pray' that Return' may be taken off, and the Return of the Constables put upon the File.' .-UPGN this Petition it may be @bserv'd; T H E Preamble of the Petition sets forth' That John Jones and George James are Constables of the Borough of Minehead, in rder to make good their Claim of being Returning.-Officers. BUT in the First' Place it is Answered' that they are not Constables of the said Borough' Which consists of several Manors and Tythings, Which have their proper officers' and Wherein-the Constables have no Jurisdiction. THE Sheriff could not direct his Precept to the Constables of the Borough of Minehead, because there are no such Officers; and a Precept to them directed, Would be a Void and improper Directim; and any Return made by them must be consequently so too-T HAT the Merit Of tho Petitioners Case is founded solely on the Constables being the Returning-officers of this Borough: and therefore' in the First Place, they ought to be put upon the Proof of this Allegation, That they are tho Ret'urning-officers, which for 'the Reasons afore-given' we think impossible to 'be maintained-T may be objected' That the Sheriff, by delivering-the Precept to one Of the Constables, hath taken Notice that 'they are che Returning officers: to Which it is answered. That the Person to whom the Precopt happen'd to be deliver'd, Was a Burgess as well as Constable; and the Precept Was directed to the Burgeffesi and Electors' and de-ΙΤν

Completely
Open Source
(and not yet
done)

stans s-;' J i IT may be Objected, That the Burgesses Who returned the Sitting.; Members had not the Precept with them to produce to che Sheriff; when they made the .Return; and that the Petitionershad the Precept, and-produced lc'wlth their Return, which was tendered to the Sheriff and refused. I T'--i's Answered, First, That this Fact is not insisted upon in the Petlthn, nor made any Part- of the Petitioners Complaint; and ic is apprehendeth that no (')bje'ct.ion can be taken anthi House but What is contained in the Body ofthe Petition. Secondly, B U T if this Fact be admitted,' it is insisted, that bythe 2; H. 6. ch. 15- iris directed that the Precept be returned by Indenture; but it is not necessary the Precept should be annex'd to the Indenture' or delivered to the Sheriff with it' and the Practice is generally otherwise: for in this present P-arliatnent' there are near Three Hundred Members who have noiPrecepts annexed to their Returns. An Indenture between tho Sheriff and the Returning officer, mentioning the Election to have been made by Virtue of a Precept to him directed, is certainly good, which lhews'the Precept need not to be annexed to che Indenture. I F it be objected., That tho'' the Precepts are not always returned by the Sheriffs to the Clerk of the Crown, yet they must be delivered to the Sheriff bythe Returning-Officers; it may be Answered, That it being not necessary for the Sheriff to return che Precept With tho Indenture to the Clerk of the Crown; neither can it be-necefl'ary to be return'd to the 'Sheriffs by- the Parties ''with their Indenture; for this being Matter which concerns the sheriff's personalisatisfaffion only, it remains dabso' .lutely in his Breast, whether he will call for it ornot; and it can be no Error if he accepts a Return Without it; and 'in common Cases of Process, the 'officer that hath- the Sheriff's Warrant,- doth not after Execution. of it. deliver it back to the Sheriff. WE apprehend, that the Precept being by this Petition admitted to be directed to tho Burgessos and Electors only, and the Return which was tendered by the Petitioners, being also thereby admitted to be a Return of tho Constables and Burgesses; this Return was not made by tho Persons to whom the Precept was directed ;- and therefore was not property be received bythe Sheriff' nor such as the House can now accept; for the Precept ought to be returned by the fame Persons to whom it is directed. I T may be Insisted' that there are Points in Law proper to be argued by Council; and therefore fit to be referred to a Committee' and tht7 Merits of the Election to be Heard at the fame Time-.-A S to the Sheriff's proceeding in this Matter' it Was With the greatest Fairness; -for the Return of the Sitting-Members, was brought to him about Seven or Eight in che Evening, of the Day of the Election, and he did not forward it for Landon till the next Day. S I N C E the Printing What is above', we have certain Informration'-That the Precept Was'no-t produced to the Sheriff' with the Return of che Petitioners; neither was there ever any Precept Return'd, with any of the Indentures, for former Elections in Mimhead; or any Precyept Res turn'd.- with any of che Indentures, for any Election for this Pa'rliamenc' in any Borough of the County of Somerset, - of which Winehead is one-



Gale eMOP

Not yet implemented:

- 1. All the dictionaries and n-gram work performed by SEASR at the University of Illinois have not yet been implemented due to problems on our end;
- 2. Printer's Database: specific font training;
- 3. Image Detection and Optimization;
- 4. Optimizing the OCR engine itself.