A large-scale analysis of the use of Scotticisms

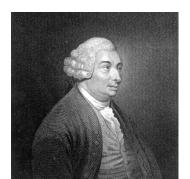
in the eighteenth century

HELSINGIN YLIOPISTO HELSINGFORS UNIVERSITE UNIVERSITY OF HELSINKI

Aatu Liimatta, Iiro Tiihonen, Lidia Pivovarova, Mikko Tolonen, Tanja Säily

Introduction

- C18: **standardization** of the English language in Scotland became a central topic in public discourse
- Standardization promoted by groups such as the **Select Society of Edinburgh** (fl. 1754-1764; Emerson 1973)
- One of the members of the society was the Scottish Enlightenment philosopher **David Hume** (1711–1776)



Hume's list of Scotticisms

- **Glossary** appended to Hume's *Political Discourses* (1752)
- Listed "Scotch" words and phrases that should be avoided and the preferred "English" equivalents
 - e.g. "Scotch" to be difficulted vs. "English" to be puzzled
- **Reprinted** a number of times in the eighteenth century → seen as important, influenced at least some C18 writers (Cruickshank 2013)

Shall and will, thefe and those, &c. explained. Vol. xxii. and in the participle; as, He operate, It

SCOTTICESMS.

These Scotticisms were annexed to the Polithem will be approved of.] Will in the first person, as I will walk.

ciple: and unnoticed is very common. Hinder to do, is Scotch. The English phrase is, hinder from doing. Yet Milton

was cultivate. Milton fays, In thought more

elevate; but he is the only author who u-

fes that expression... blide diw mee

proper phrase is take notice. Yet I find

Lord Shaftefbury uses noticed, the parti-

Notice should not be used as a verb. The

tical Discourses of David Hume, Esq; printed at Edinburgh in 1752 [xiv. 56.]; but are not continued in the later editions of that book. As they may, however, be useful to such of our countrymen as would avoid Scotticisms in speaking or writing, we prefume that our republishing

Research questions

- How common was the use of Hume's "Scotticisms" in eighteenth-century British books?
- Who used the Scotticisms and where?
 - Author, author's regional background, publisher, place of publication, genre...
- Was there change over time, did efforts like Hume's make a difference?

Material: *Eighteenth Century Collections Online* (ECCO)

- The 200,000 volumes of ECCO cover half of the surviving printed record of 18th-century Britain
- Challenges:
 - Texts are not clean (OCR noise)
 - Biases in the composition of the collection
- Metadata from the English Short Title Catalogue (ESTC)
 - Harmonized by the Helsinki Computational History Group (COMHIS)
 - Dataset restricted to 1st editions of book-length works (altogether 18,252 books)
 - Additional author + genre metadata produced at COMHIS

Methods: Identification of Scotticisms

- Hume's list retrieved from <u>LEME</u>
- Operationalization: textual lookups using regular expressions
 - Noun singular/plural, verb conjugation, different pronouns, different determiners, common variant spellings, compound words together/hyphen/space, typical OCR errors (e.g. s/f)...
 - o E.g. cause him do it
 - -> cau(s|f)(es|ed|e|'d|d|ing) (me|you|him|her|it|us|them) do
 - But: does not find other verbs than do, which lowers recall
- Many items on the list would need structural/part-of-speech analysis and/or semantic disambiguation for correct identification
 - E.g. to want it 'need, lack', not 'desire'; chimney 'grate', not 'smokestack'
- We were able to analyse 67 Scotticisms and 58 "Englishisms" out of 106 pairs on Hume's list

Items included (1/2)

Scotch

conform to friends and acquaintances Maltreat advert to proven improven approven pled incarcerate fresh weather in the long run notwithstanding of that a question if with child to a man simply impossible in time coming nothing else severals anent allenarly alongst

as I shall answer

English

conformable to friends and acquaintance abuse attend to

pleaded
imprison
open weather
at long run
notwithstanding that
a question whether
with child by a man
absolutely impossible
in time to come
no other thing
several
with regard to
solely
along
I protest or declare

Scotch

cause him do it marry upon effectuate a wright defunct evite part with child notour to be difficulted think shame in favours of dubiety compete remeed bankier adduce a proof superplus forfaulture in no event common soldiers debitor exeemed

English

cause him to do it marry to

a carpenter deceast avoid

notorious to be puzzled asham'd in favour of doubtfulness enter into competition

banker
produce a proof
surplus
forfeiture
in no case
private men
debtor
exempted

Items included (2/2)

Scotch

vacance

yesternight big coat tenible argument amissing extinguish an obligation depone to inquire at a man angry at to send an errand to furnish goods to him to open up Thucydide Herodot Sueton butter and bread pepper and vinegar paper, pen and ink as ever I saw come in to the fire alwise cut out his hair to get a stomach

English

last night great coat good argument

cancel an obligation

to inquire of a man angry with to send off an errand to furnish him with goods

Thucydides Herodotus Suetonius bread and butter vinegar and pepper pen, ink and paper as I ever saw come near the fire alwavs cut off his hair to get an appetite vacation

Methods of analysis

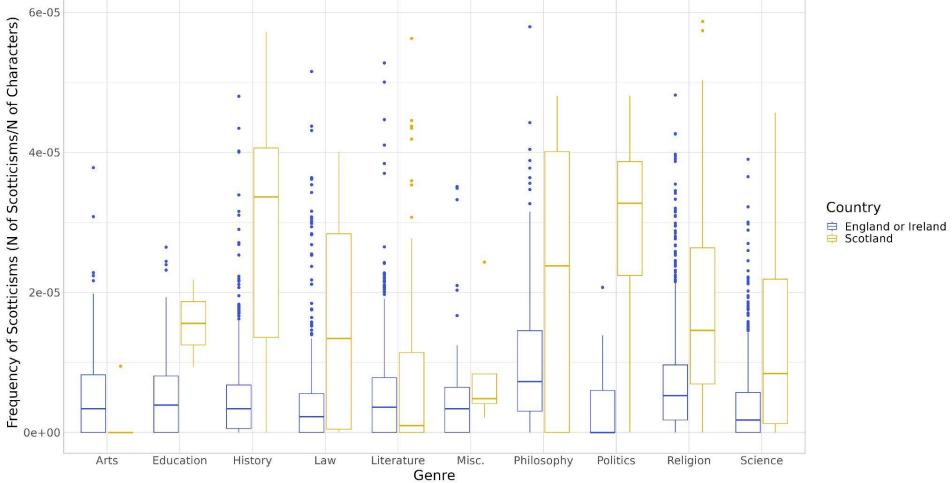
- First iteration: Data **visualization** (e.g. boxplots)
 - Used to study the relationship between Scotticisms and (individual)
 other variables of interest (e.g. time, nationality, OCR noise)
 - o Pros: easy to interpret
 - Cons: Do not allow for more complex analyses
- Second iteration: penalized multivariate regression
 - Allows for parallel consideration of hundreds of variables possibly related to the appearance of Scotticisms, while being robust against false signals (LASSO penalization)
 - Pros and cons: interpreting the fitted model produces a more complex argument about Scotticisms

Analysis

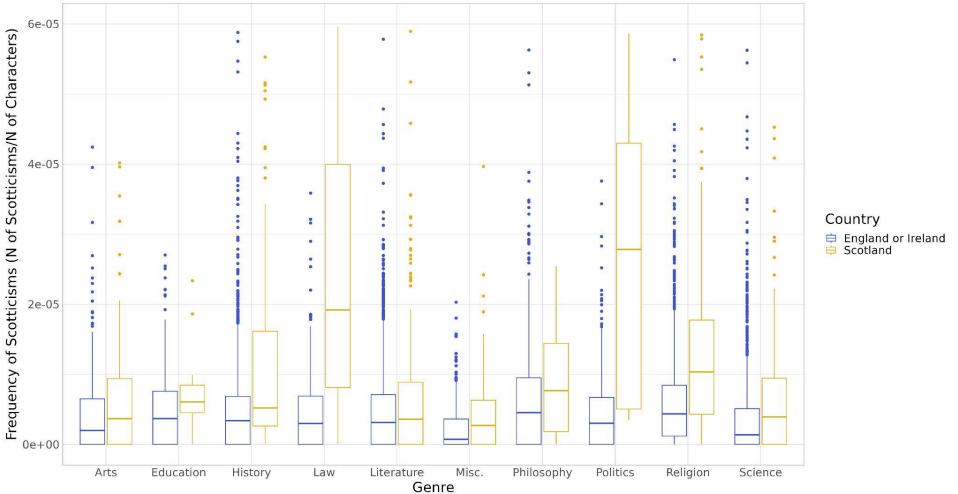
Frequency of scotticisms in books by country of publication per decade of the 18th century 1.0e-04 -7.5e-05 -Frequency (per million characters) Publication country 5.0e-05 -England Scotland 2.5e-05 -0.0e+00 -1740s 1750s 1700s 1710s 1720s 1730s 1760s 1770s 1780s 1790s Decade

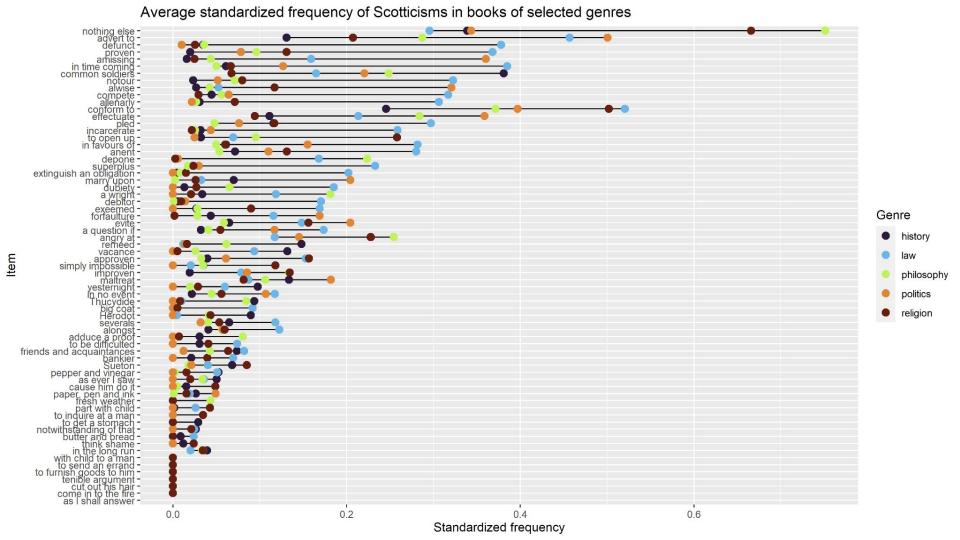
Frequency of scotticisms in books by author per decade of the 18th century 1.0e-04 -7.5e-05 -Frequency (per million characters) Scottish author 5.0e-05 -No Yes 2.5e-05 -0.0e+00-1740s 1700s 1710s 1720s 1730s 1750s 1760s 1770s 1780s 1790s Decade

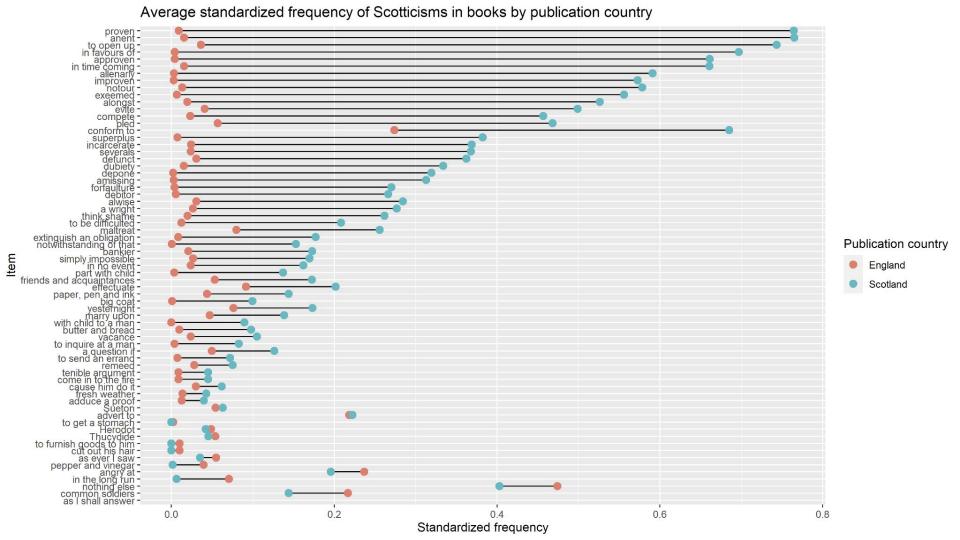
Scotticisms in Books by Genre and Country of Publication. First Half of the Eighteenth Century



Scotticisms in Books by Genre and Country of Publication. Second Half of the Eighteenth Century







| Top 6 books using Scotticisms | Author | Year |
|--|----------------------------|------|
| State of the conjoined processes, betwixt Sir Alexander MacDonald, of MacDonald, baronet, and others, and Normand MacLeod, of MacLeod, Esq; and others | NA | 1766 |
| State of the process of division of the common muirs or commonries of Reddingrig and Whitesiderig. Lying in the Shire of Stirling. 1763 | NA | 1763 |
| State of the process of reduction, declarator and damages: the Governor and Company of Undertakers for raising the Thames Water in York-Buildings; against Alexander Mackenzie, writer to the Signet | NA | 1791 |
| The principles of book-keeping explain'd | Macghie, Alexander | 1718 |
| Essays upon several subjects in law | Kames, Henry Home, Lord | 1732 |
| State of the processes depending against Mr. John Simson | Simson, John | 1728 |

Example

because tho' the first two Ad- judgers were preferable as to their ioooo Merks, and in so far as the Annualrenter draw from them, the Inhibiter was not prejudged, yet as to the **Superplus** of 2000 Merks, the Competition falling betwixt the Inhibiter and a posterior Annualren- ter, the Inhibiter is intirely preferred.

Essays upon several subjects in law (Henry Home, Lord Kames, 1732)

Penalized regression

- Data: 8500 observations
 - o 7200 for model fitting, 1300 for evaluation
- Predictors (total = 651)
 - OCR quality (continuous)
 - Publication country x quarter century (dummy)
 - Nationality of author x birth century (dummy)
 - Publication country x genre x half-century (dummy)
 - Presence of a given publisher with more than 50 editions (dummy)
- Model details
 - Negative binomial model (to handle overdispersion, phi=2)
 - Target = rate of Scotticisms in a volume
 - o Offset = number of characters in a volume

Penalized regression – results (1/2)

- The model fitting process resulted in 16 variables with non-zero effect size
- Associated with higher rate of Scotticisms:
 - Scotland as a publication place, effect decreases through the century
 - Law texts
 - Scottish authors born in the 17th century
 - R. Dodsley (publisher)

Penalized regression – results (2/2)

- Associated with lower rate of Scotticisms:
 - Low OCR quality
 - Late 18th-century scientific books published in England
 - Scottish authors born in the 18th century
- Reliability of findings
 - Penalization should produce robust results
 - Analysis of residuals suggests that important variables might be omitted, and penalty can also produce "false negatives"

Did Hume use Scotticisms?

- Sinclair (1782): Observations on the Scottish Dialect
 - Many examples from Hume, e.g. you was for you were ("This is an impropriety which even Mr. Hume was guilty of", p.58)
- Hume's publications:
 - o you was
 - o you were 15
- Hume's **letters** (Past Masters collection):
 - you was41
 - o you were 17
- → Used (some) Scotticisms in private writing!



Discussion

Summary of results

- Some of the items listed by Hume are quite common
 - o E.g. conform to: 84,938 instances
 - Some more Scottish than others, many quite infrequent
- Used more by Scottish authors, books published in Scotland
 - Many especially common in legal texts
- Decrease over time
 - Heaviest users born in the 17th century
 - Change at its fastest around mid-18th century?
- → Efforts like Hume's accelerated ongoing standardization?

Why did Hume focus on legal Scotticisms?

- Legal Scotticisms was a natural context for Scotticisms because of the localized nature of legal language
- Hume came from a family of lawyers
 - o Was supposed to become a lawyer himself but ill suited
- All his patrons were lawyers
 - E.g. Henry Home, Lord Kames
- Army position, diplomat, 1752 librarian at the Faculty of Advocates
 - Editing/correcting close to his heart

Conclusion

- Hume and the Select Society of Edinburgh contributed to an ongoing process of standardization
- Hume's glossary was not the only one of its kind produced at the time
 - Ideology of standardization
- Future work
 - Compare actual usage with other lists of Scotticisms, e.g. Sir John Sinclair, James Beattie
 - Add a purely data-driven approach?

References

- Cruickshank, Janet. 2013. The role of communities of practice in the emergence of Scottish Standard English. In Joanna Kopaczyk & Andreas H. Jucker (eds.), Communities of Practice in the History of English. John Benjamins, 19-45.
- Emerson, Roger L. 1973. The social composition of Enlightened Scotland The Select Society of Edinburgh 1754–1764. Studies on Voltaire and the Eighteenth Century 114: 291–329.
- Hume, David. 1752. Political Discourses. Edinburgh:
 Printed by R. Fleming, for A. Kincaid and A. Donaldson.