

Sound change vs. orthographic remapping: Visualising 'excrescent' <t> and <t> deletion in fifteenth-century Scots

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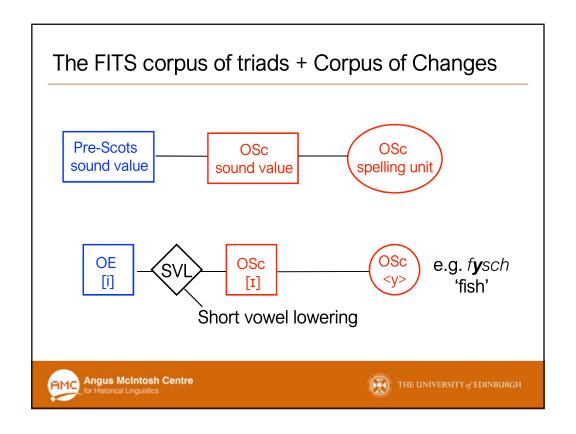
The FITS Project (From Inglis To Scots)

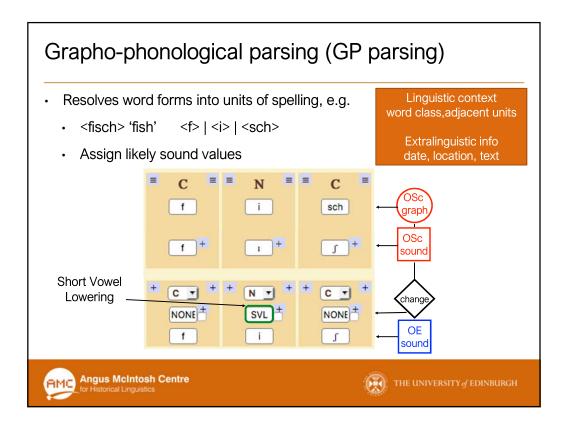
- 4-year project at the Angus McIntosh Centre for Historical Linguistics
 AHRC Grant N
 ^o AH/L004542/1
- Researching the early sound/spelling history of Scots
- Data: A Linguistic Atlas of Older Scots (LAOS, Williamson, 2008)
 - c.1250 Scots 'local documents' (c. 400k wds) dated 1380-1500
- Restricted to Germanic root morphemes
- Main RQ:

What phonological facts underlie the diversity of spelling in Scots (1380-1500) and how did it develop?









Alternation between <ch>, and <gh> in final and pre-<t> position: A case study

- "<ch, cht, th, tht> appear interchangeable, leading some authorities to conclude that they are just graphical variants." (Johnston, 1997 a: 101)
- Non-etymological final <t> after /x/ and /θ/:
 burght 'burgh', throught 'through', laucht 'law', yotht 'though', southt
 'south', truetht 'truth', clacht 'cloth', vortht 'worth', aitht 'oath'
- Final <t> loss in etymological /xt/ words:
 thoch 'thought', auch 'eight', boch 'bought', frach 'freight', rich 'right',
 knigth 'knight', myth 'might'
- Final <ch>~(~<gh>) alternation:
 monecht~monetht, norcht~northt, clacht~clatht, furcht~furtht~furght,
 acht~atht, tolbuch~tolbuth, lench~lenth.





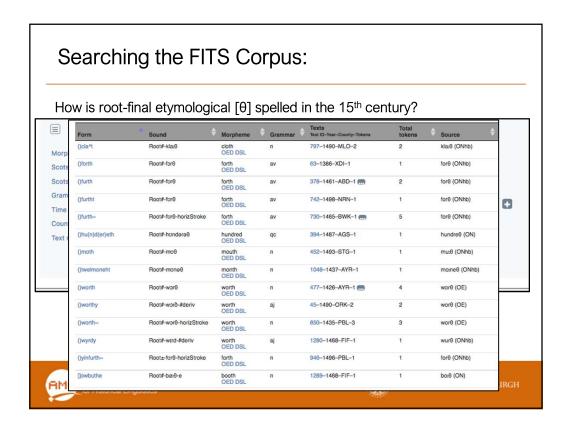
Uncovering OSc sound values and changes

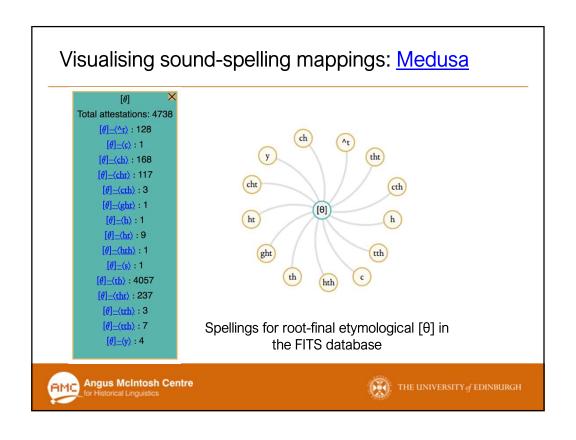


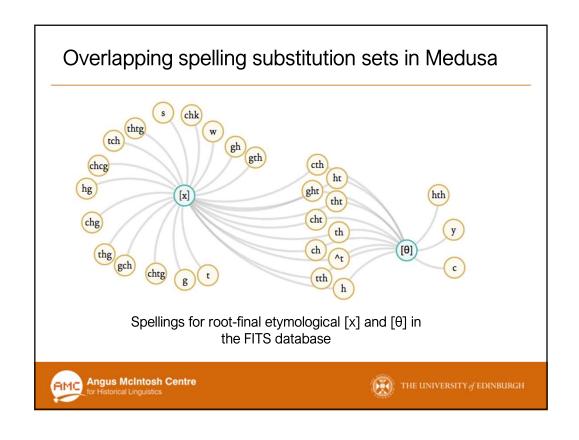
Is there a phonological change here?

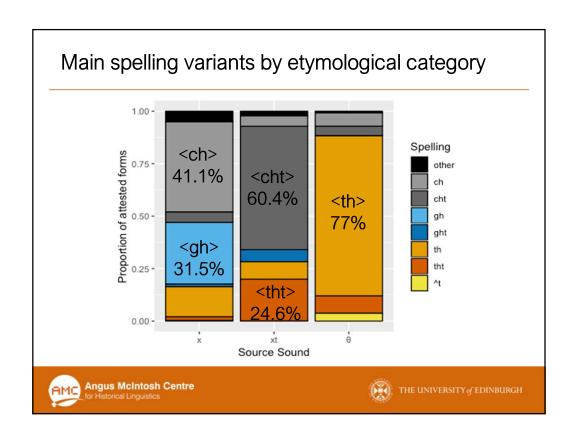


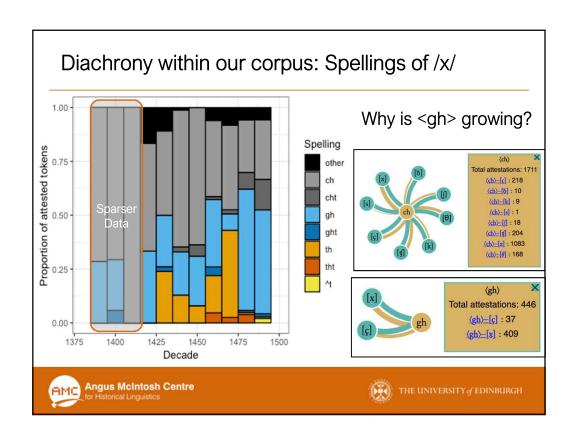


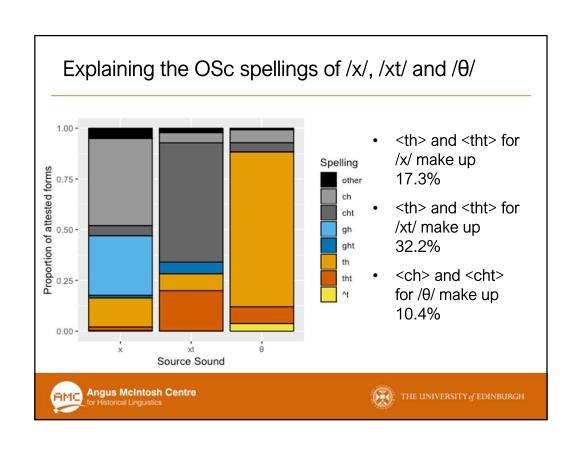












Explaining the OSc spellings of /x/, /xt/ and $/\theta/$

We assume that the OSc scribes weren't just spelling randomly, but that there must have been a rationale for the spellings they used; we suggest two factors which explain the array of spellings:

- 1) Sound changes, still evident in Modern Scots
 - i. /xt/-Dentalisation ('Place Assimilation') (/xt/ > $[\theta t]$ > $[\theta]$)
 - ii. /t/-Deletion
 - iii. /t/-Excrescence
- 2) Confusion between <t> and <c> by transcribers

A combination of these explains almost all of the variation we see in the OSc spellings of these words





$/xt/ > [\theta]$

Present-day Scots dialects, especially in the NE, are characterized by a change, limited to a few words, of OSc /xt/ to $[\theta]$

- e.g. dother (daughter), drouth (drought), mith (might)
- see Grant (1931: xxxv), Dieth (1932: 113), Johnston (1997b: 505)

Johnston (1997b: 505)

"It must be an old change, recessive for years, if any of the <th, tht> spellings of
Older Scots in the class of words really reflect [θ] and are not purely graphic... It
may have covered a wider area in Older Scots."

This is also noted for Middle English, with an entry in Lass, Laing & Alcorn (2013; CoNE):

((TXT)) Transposition x to theta: "[x] > [θ] before [t] and (less commonly) finally."





/t/-Deletion and Excrescence

/xt/ > [θ] probably involved an intermediate stage, [θ t] ('Place Assimilation'), with [θ] being the result of /t/-Deletion (cf. CoNE 'Final Coronal Deletion')

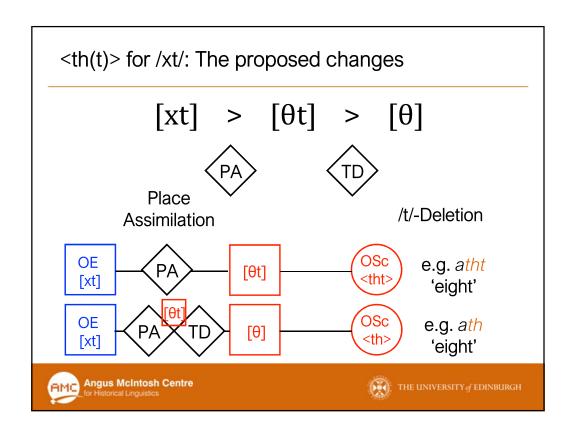
- a common but sporadic change in the history of Scots, deleting /t/ as the second member of clusters such as /xt/, /st/, /ft/, /pt, /kt/ (Johnston 1997a: 101)
- "The sound-change /xt/ > /x/ suggested by Meurman-Solin (1997b: 121) is not noticed in the literature on the modern dialects, as far as I know, but is heard in Lanarkshire speech at the present time" (Macafee & Aitken (2002: fn 87)
- This may account for <ch> spellings of /xt/, though another explanation is also possible (see further slides)

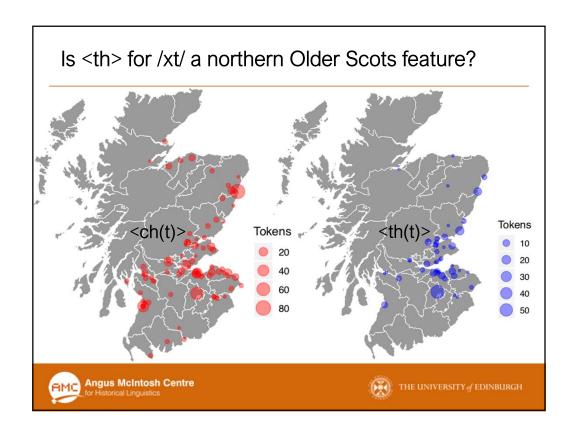
Johnston (1997a: 101) notes of OSc that:

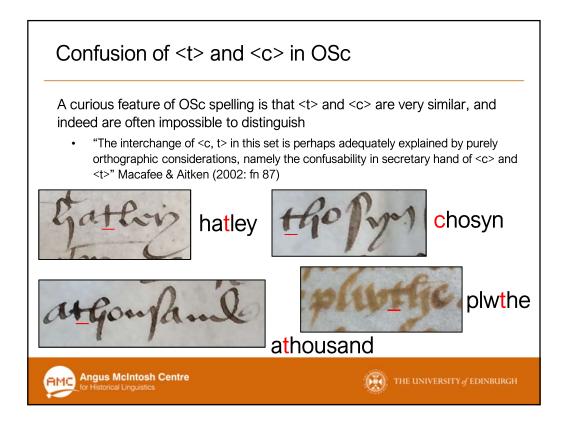
"Towards the end of the period, a tendency to restore /t/ in /st xt ft/ starts to work ... leading to forms with 'excrescent /t/' as well as restored forms, which can now be observed in many non-standard dialects today in England, Ireland and America, as well as Scotland" (cf. CoNE 'Final Consonant Excrescence')











Transcription of '<t>' and '<c>'

Transcribers of OSc almost never confuse <t> and <c>; they are rigorously distinguished, based on their etymology, when they are used in the representation of

- [k] (<c> only, never <t>)
- [t] (<t> only, never <c>)
- [tf] (<c> almost exclusively)
- initial [θ] (<t> only, never <c>)



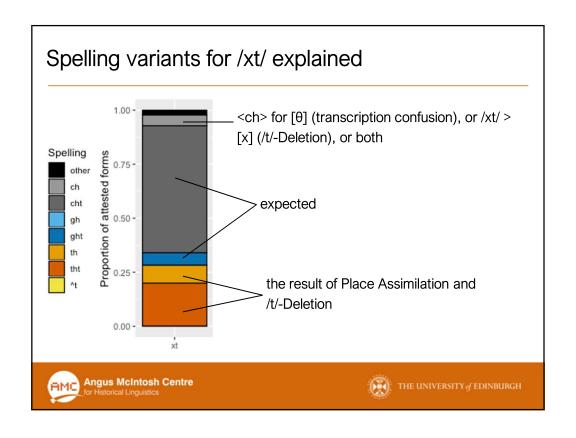


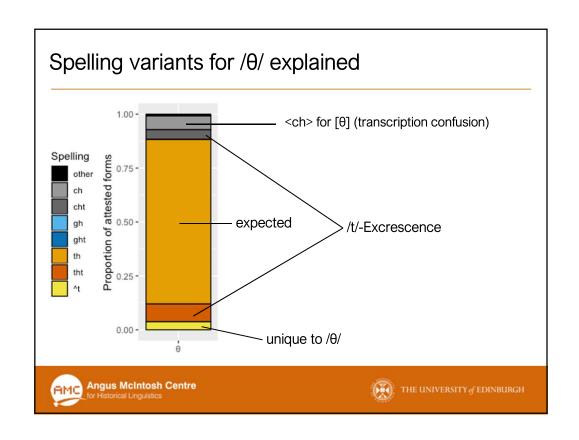
However, the same does not hold for [x], [xt], or $[\theta]$ in non-initial position, even though the written symbols are no different than those used in other environments

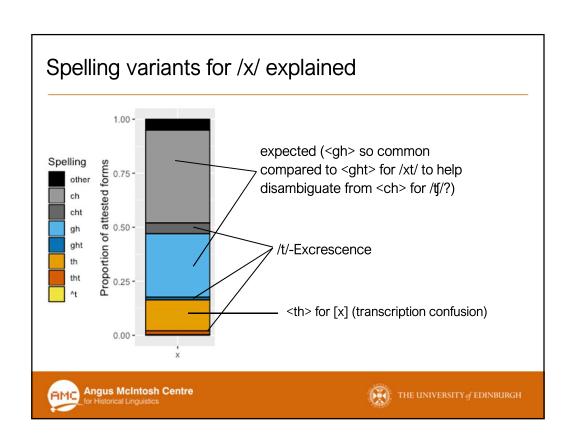
- here transcribers interpret some cases as <t>, others as <c>, i.e. they no longer base their decisions entirely on the etymology of the sound
- the result is that $[\theta]$ may be transcribed as <ch>, and [x] as >

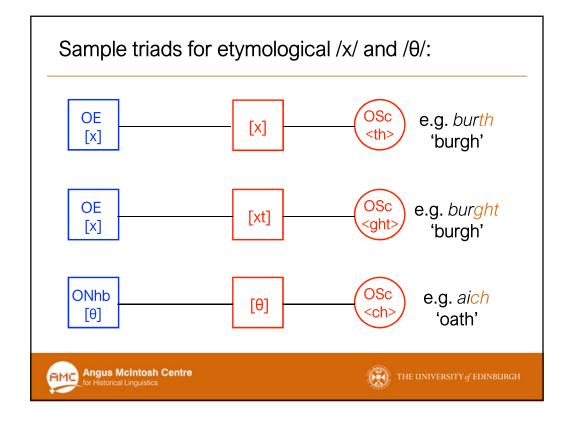












Conclusions: <ch(t)> vs. <th(t)>

The apparently random mass of variant spellings of OSc /xt/, /x/ and θ can be almost entirely explained by appeal to well-known sound changes in the history of Scots

/xt/-Dentalisation (Place Assimilation), /t/-Deletion, and /t/-Excrescence

And confusion on the part of transcribers of the (near) identical <t> and <c>

• which gives the impression of cross-overs between /x/ and $/\theta/$ in non-initial position

A close analysis of the data suggests that the OSc scribes knew what they were doing (even if they weren't too concerned to distinguish <t> and <c>...)





Conclusions: Tools

The FITS Corpus provides us with novel tools for historical phonology research:

- A means to visualise relationships between historical sounds and spellings
- A way of quantifying these relationships and linking them to linguistic and extralinguistic factors
- A way of visualising the distribution of sounds and spellings across time and space
- A suite of tools for generating and revising likely scenarios for sound or spelling changes





