

Welsh-language prestige in adolescents: attitudes in the heartlands

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Welsh-language prestige in adolescents: attitudes in the heartlands

Abstract

We investigate covert attitudes towards Welsh and English as a medium of informal communication among L1 Welsh-English bilingual adolescents. We collected quantitative data using an adaptation of the Matched-Guise technique, testing measures of social attractiveness within youth culture via an indirect method. A total of thirty-five adolescents took part in this study. We perform a 2 (language: Welsh / English) \times 2 (register: high / low) \times 2 (participant gender: male / female) mixed-design ANOVA, with participant gender as the between-subjects variable. Results show English rated more favourably than Welsh overall, with female participants rating Welsh guises significantly more highly than males. This lends empirical support to the perception of Welsh as a language of school and officialdom while English fulfils the language of leisure.

Keywords

Language attitudes, minority languages, adolescents, gender, Welsh

Introduction

Throughout the 20th Century, Welsh language activism called for political and attitudinal change at local and Government level, consequently gaining official recognition for the Welsh language in formal domains (Welsh Language Act, 1967; Welsh Language Act, 1993). Today, improvements are evidenced by the increased demand for public-sector provision, acquisition planning and curricular inclusion of Welsh (Jones and Martin-Jones, 2004; Jones, 1990). The education system plays a crucial role as a main agent of Welsh language reproduction and transmission throughout Wales (Kenesei, 2009; May, 2000). Present-day maintenance of Welsh seems to be politically secure (Baker, 2003), as perceived high-prestige and economic benefits have been generated for the language through its introduction in institutional domains (Hodges, 2012). However, while the Welsh language now enjoys relatively heightened prestige compared to other cases of minority languages (e.g. Cormack, 2007), the onus of its maintenance tends to lie primarily with language planners and policy makers, raising well-known issues that result from over-reliance on top-down practices (e.g. Gruffudd, 2000; Hodges, 2011; Ó Riagáin et al., 2008; Williams, 1992).

One such issue is that the stated and overt language policies of bilingual environments often differ considerably from practical-level realisation (Schiffman, 1996). This can often mean that while one variety finds favour at the formalised policy level, speakers may commonly employ the apparently 'disfavoured' variety in cultural practice (Sophocleous, 2011:267). Therefore, while bilingual education may offer a necessary language planning model for the increase of speaker numbers (Baker, 2003), the high level of input afforded through the minority language education system does not necessarily equate to high levels of language use amongst speakers (Thomas & Gathercole, 2009). The Welsh case provides a potential example of this discrepancy, and it has been demonstrated that despite educational channels providing daily input in Welsh, the language is not necessarily used as a

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3 *conversational* medium between Welsh speaking children, both in informal domains and in
4 the absence of an authority figure (Gathercole & Thomas, 2009; Price & Tamburelli, 2016;
5 Thomas & Roberts, 2011). While being used for in-class work and in the presence of an
6 authority figure, Welsh is not necessarily perceived as an appropriate medium of
7 communication in the conversational domains (Price & Tamburelli, 2016). Welsh-speaking
8 children have been observed as ‘unwilling’ to communicate in Welsh in low-domain
9 interactions (see Thomas & Roberts, 2011), increasing the previously reported trend for
10 Welsh-educated pupils to avoid the use of Welsh in informal out-of-school communication
11 (Baker, 2003). These trends are further evident in Thomas, Apollonia and Lewis (2014);
12 language attitudes of L2 children from English-dominant homes were elicited, demonstrating
13 that L2 English-dominant children displayed greater favourability towards English than
14 towards Welsh. Similar phenomena have also been observed in other immersion contexts. For
15 example, the informal practices of Catalan teenagers have been reported as ‘lagging behind’
16 (Wieland, 2009), with pupils using the minority language for in-class exercises while
17 conducting wider community and peer-to-peer social interaction through the majority
18 language (Cenoz 2008). Similarly, L2 Welsh-educated children have been reported to show
19 greater likelihood to revert to their L1 in everyday social interactions (Thomas & Roberts
20 2011; Thomas et al., 2012; Price & Tamburelli, 2016).

21
22 **This pattern of retroversion has also been shown to be affected by gender.** The
23 tendency to use English is particularly evident in primary-aged boys, and specifically
24 pronounced in L2 speakers (Thomas et al., 2012). Specifically, Thomas and Roberts (2011)
25 report that in-class peer-to-peer interaction is through the medium of Welsh 69.4% for young
26 boys, contrasted with 91.7% for girls. In younger and adolescent speakers, female
27 participants have proven to be markedly more active users of the language than males,
28 particularly when discussing academic topics (Hodges, 2009; Morris, 2010). Research on L1
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3 and L2 Welsh speaking adults in Higher Education Institutions (Laugharne, 2007) suggests
4 that this gender-gap transcends beyond school, with male participants showing more
5 favourability towards English than their female counterparts.
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10 11 *Methodological issues: gender preferences and overt vs covert attitudes*

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13 Despite evident gender-related trends becoming increasingly apparent in the literature on
14 Welsh attitudes, researchers have suggested that this lack of willingness to apply Welsh is
15 likely due to low-levels of speaker confidence and perceived language competence/
16 proficiency (Morris, 2014; Thomas et al., 2014; Thomas & Roberts, 2011). Pointedly,
17 Laugharne (2007) highlights the fact that these patterns are driven by self-reported speaker
18 competency, with Higher Education Welsh-home speakers self-reporting higher levels of
19 proficiency, and consequently greater positivity towards Welsh. Morris (2014) also reports
20 positive conscious attitudes as expressed by sixth form¹ students towards the Welsh language,
21 correlating participant confidence with increased use of Welsh. It has also been suggested
22 that use of Welsh may be curbed by speakers' heightened sensitivity to English as the
23 dominant language of social inclusivity and mutual understanding (Gathercole, 2007;
24 Thomas et al., 2014. See Hickey, 2007 for a similar analysis of the Irish situation).
25 Additionally, some speakers have shown a greater awareness of the *iconic* value of Welsh
26 rather than viewing it as a day-to-day medium (Coupland, Bishop, Williams, Evans &
27 Garrett, 2005).
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46 Although there is some evidence that confidence and proficiency levels play a role in
47 the favourable view towards Welsh (Coupland et al. 2005), the lack of Welsh engagement
48 among males as exemplified in the literature cannot be wholly attributed to low speaker
49 confidence without a thorough exploration of underlying speaker attitudes. However, the
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55 ¹ Sixth form refers to the non-compulsory final years of high school, comparable to twelfth grade in the
56 American schooling system.
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3 present study will expand on previous findings with reference to speaker attitudes; by doing
4 this, we will widen the scope of understanding behind speakers' language preference. At
5 present, much of the existing attitudinal research relies on self-reports and direct
6 methodologies (Coupland et al., 2005; Laugharne, 2007; Morris, 2014). In an attempt to
7 tackle this issue, Price and Tamburelli (2016) investigated covert attitudes among male
8 adolescents through the focus group methodology, thus providing an insight into in-group
9 language attitudes. Their study suggests that the reason for a lack of engagement with Welsh
10 is at least partly due to the covert linguistic attitudes of adolescent speakers. Specifically,
11 Price and Tamburelli (2016) suggest that Welsh is becoming increasingly associated with
12 heightened overt prestige – namely school system formalities, high-domain transmission in
13 education, higher education and public sector roles – while English fulfils the covertly
14 prestigious role amongst teenage speakers. It is this covertly prestigious form which sets the
15 tone for language change, with potentially negative impacts filtering down to the attitudes
16 that surround the Welsh language in general and its perceived domains of use in particular.
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33 The identified reluctance to use Welsh in peer-to-peer communication (Thomas &
34 Roberts, 2011; Thomas et al, 2014) may partly be influenced by such an association of Welsh
35 with the formal domains. This association would then explain the gender patterns evident in
36 the literature. Given the cross-linguistic tendency for female speakers to display favourable
37 attitudes towards highly prestigious forms 'from above' (i.e. perpetuated by formal
38 institutions) and male speakers to show favour towards vernacular varieties (Bilaniuk, 2003;
39 Eckert, 1989, 1990, 1998), it is perhaps unsurprising that Welsh should be favoured by
40 females. On this view, the reasons behind the reported lack of Welsh engagement are closely
41 tied to well-known gender patterns reported for other linguistic situations, such as the
42 research carried out in Ukraine (Bilaniuk, 2003) which demonstrates women displaying
43 greater favourability towards the more socially acceptable H(igh) language, namely English,
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3 due to the association of English with opportunity for social advancement. Similarly, female
4 secondary school students in Guangzhou, China (see Wang & Ladegaard, 2008) showed
5 preferential attitude to the use of the prestigious variety Putonghua (H) over Cantonese (L).
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10 11 *Eliciting covert and overt attitudes* 12

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14 There is a discrepancy in the literature between previous self-report studies in Wales
15 demonstrating outwardly positive attitudes towards Welsh (Lyon & Ellis, 1991; Coupland et
16 al 2005; Laugharne, 2007; Morris, 2014) and negative attitudes towards Welsh evident in
17 more recent work (Price & Tamburelli, 2016). Within the Irish context, Irish-medium
18 students self-report positive attitudes towards Irish yet turn away from the language in peer-
19 to-peer interaction (Ó Duibhir, 2009: 114). Similarly within the Gaelic context, overtly
20 positive language attitudes co-exist with patterns of falling use (Cochran, 2008; Müller,
21 2006). **As suggested by these findings, language attitude data obtained through self-reports**
22 **have limitations (see Fasold, 1984) and do not predict speakers' language use.** Such explicit,
23 overt attitudes elicited from direct methods are held at the conscious level, deliberately
24 formed and easier to self-report. These overt attitudes often reflect established institutional
25 and policy norms (Maegaard, 2005) rather than reflecting inner-held beliefs. In order to fully
26 explore the reported trends of speakers reluctant to communicate through the medium of
27 Welsh (Thomas & Roberts, 2011; Thomas et al. 2014), the present investigation will elicit
28 covert attitudes of the speakers, rather than overt attitudes as commonly explored in previous
29 literature. By doing so, we fill this critical lacuna in the literature and, as covert attitudes play
30 a greater role in influencing speaker behaviour 'on the ground' (Kristiansen, Harwood &
31 Giles 1991; Maegaard 2005, 2010), we will provide a new approach in the Welsh context.
32 Indeed, covert attitudes have been elicited as a means to uncover the sociolinguistic position
33 of Spanish and Catalan in Catalonia (Woolard & Gahng, 1990) and Sicilian in Sicily
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3 (Ruffino, 2006). These covert attitudes are obtained via indirect methods which elicit
4 attitudinal patterns that tally closely with changes in language use (Maegaard, 2005). Social
5 attitude and behavioural disposition have played an important role in predicting and
6 explaining human behaviour (Ajzen, 1991), and as such can inform aspects of linguistic
7 behaviour and ultimately of linguistic vitality. Attitudes develop from beliefs speakers hold
8 about an attitude object (Ajzen, 1991); as such, speaker attitudes must be elicited in order to
9 aid our explanation of speaker choice in choosing of a particular linguistic variety.

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18 Considering the distinction between direct and indirect methods, we infer that previous
19 attitudinal studies in Wales have provided evidence for speakers' overt – rather than covert –
20 language attitudes (e.g Coupland et al. 2005), hence explaining the discrepancy in the
21 literature between previously positive self-reports (Coupland et al 2005; Laugharne, 2007)
22 and the negative attitudes more recently recorded (Price & Tamburelli, 2016).

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Crucially, research demonstrates that attitudes differ greatly depending on whether they have been elicited directly or indirectly (i.e. Maegaard, 2005). As highlighted by McKenzie and Gilmore (2017), the results of studies of unconsciously held evaluations confirm the divergence between implicitly and explicitly held attitudes. The use of indirect methods for eliciting covert attitudes is particularly important in investigating the linguistic behavior of adolescent speakers, as adolescence provides a pivotal shift in the orientation of speakers' linguistic attitudes, whereby they move away from family influence and towards peer-group influence (Harmer, 1991; Taylor, 2000; Dörnyei, 2001). However, at present there is a lack of quantitative data on the attitudes of speakers who have access to Welsh beyond the classroom, namely L1 community speakers. As discussed, the majority of research pertains to L2 speakers. In these studies, weakened association of Welsh among speakers has been explained by factors such as lacking opportunity for use, lacking confidence and lacking relevance of the Welsh language (Coupland et al., 2005; Gathercole, 2007; Hickey, 2007;

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3 Thomas et al., 2014). While it is accepted that those who speak Welsh at home have a greater
4 disposition to use Welsh outside of the home (Coupland et al., 2005; Morris, 2014) and a
5 clear relationship exists between home-supported language input and the speaker ability with
6 the minority language (Gathercole 2002; Rhys and Thomas, 2013), family language and
7 language proficiency cannot be used to gauge covert attitudes or willingness to communicate
8 through Welsh. If this were the case, then we would expect L1 speakers to show markedly
9 different associations with Welsh than L2 speakers, as L1 speakers are unlikely to lack in
10 confidence, opportunities or language relevance as much as L2 speakers. If instead our study
11 provides evidence of weakened association towards Welsh among L1 speakers, we would
12 have evidence that there is an additional attitudinal factor contributing to preference to
13 English among L1 speakers, as presently observed in L2 speakers. In order to further
14 investigate speakers' covert attitudes, our paper therefore takes the following two points of
15 departure:

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Firstly, in order to fully explore the recorded trend of adolescent male Welsh speakers gravitating towards the use of English in peer-to-peer interactions, we will elicit attitudes regarding the social acceptance of Welsh among L1 speakers. We will do so by employing indirect methods for the elicitation of covert attitudes rather than collecting overt attitudes as in previous literature, thereby also filling a methodological gap apparent in the previous literature (e.g. Coupland et al., 2005; Thomas & Roberts, 2011; Morris, 2014). As discussed above, eliciting attitudes by direct methods (i.e interview, self-report, questionnaire) provides information on individuals' overt attitudes which may not be representative of or may even conflict with their covert attitudes or inner beliefs (e.g. Baker, 1992). The present study will therefore employ indirect methods with the aim of eliciting covert attitudes.

Secondly, despite this trend male speakers using English in peer-to-peer interactions being reported in disparate geographical regions of Wales, occurring throughout primary,

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3 secondary, and tertiary education (Morris, 2010), there is an evident paucity of research on
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5 the perceptions of the appropriateness and acceptance of Welsh and English in L1
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7 strongholds, where speaker proficiency is high and there are many opportunities for young
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9 speakers to apply Welsh. This study aims to explore the covert attitudes towards Welsh and
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11 English held by speakers in an L1 community where Welsh is acquired through the home
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13 environment and transmitted through formal schooling. If such groups are to set a standard
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15 for L2 speakers as suggested by Thomas et al. (2014), then we need to understand the current
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17 connotations among young people towards the role of Welsh and English in contemporary
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19 youth culture. With existing research providing overt attitudinal evaluations, and much of that
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21 in younger speakers, this paper will tackle the lesser-known L1 adolescent speaker attitudes
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23 towards Welsh and English.
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31 **Research Questions**

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35 As aspects of speaker behaviour (i.e. engaging in language maintenance or loss) can
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37 be predicted by speaker belief (i.e. language attitudes) (Allard & Landry, 1986; 1992), a
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39 measure of language attitudes can therefore provide detail regarding the linguistic vitality and
40
41 potential future trends of a language. As explained above, the perceived connotations of
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43 Welsh and English with academic and non-academic domains necessitates a measurement
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45 across gender and - therefore - this paper aims to address the following research questions:
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50 *(1) Where Welsh is transmitted in the home and community, what covert attitudes are held by*
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52 *L1 native Welsh-English bilingual adolescents towards Welsh and English?*

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54 *(2) Do L1 Welsh adolescents view Welsh and English differently in terms of their relatability*
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3 *as a conversational medium of social interaction?*

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5 *(3) Do female and male adolescents hold different language attitudes towards Welsh and*
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7 *English?*
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11 If the observed gender gap is due to the development of a generic trend whereby
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13 Welsh is more readily associated with the school environment than with everyday
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15 conversation (the “Inverted diglossia” of Price and Tamburelli, 2016), then we would expect
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17 to find evidence of this gender gap in L1 heartlands as well, with females rating Welsh more
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19 positively than males on traits which are perceived to be connoted with social mobility and
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21 academic achievement. In the same vein, we would expect young male speakers to hold less
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23 favourable attitudes towards what they perceive to be the more formal, overtly prestigious
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25 variety (Labov, 1990; Romaine, 2003). As Welsh becomes increasingly associated with
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27 formality and overt prestige, English is likely to begin to be perceived as the language of
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29 rebellion against ‘the established [linguistic] rules of the adult world’ (Rostami, 2012:210)
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31 among males. Thus, we would expect that, even in the Welsh heartlands, English would be
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33 rated higher on social traits by male informants, while Welsh would be viewed more
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35 favourably by females as the language of social and academic concordance.
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42 If, on the other hand, the reported lack of willingness to apply Welsh is mostly due to
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44 low-levels of speaker confidence and perceived language competence/ proficiency among
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46 users (e.g. Morris, 2014; Thomas, Apolloni & Lewis, 2014; Thomas & Roberts, 2011), then
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48 we would expect to find no difference in attitudes between the genders in L1 speakers
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50 growing up in the heartlands as there will be little to no variation in speaker confidence, since
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52 both genders have Welsh as their first language and have access to systematic opportunities
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54 to use Welsh in a broad range of conversational domains. Additionally, we would also expect
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3 our cohort of L1 Welsh adolescent speakers to rate Welsh of equal or greater favourability
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5 than English on measures of social traits.
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7 **To test these hypotheses and to complement existing qualitative research on the topic,**
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9 **we use a quantitative method.** As this paper provides a follow-up quantitative study from
10
11 existing qualitative work (e.g. Price and Tamburelli, 2016), we have developed a
12
13 modification of the matched-guise test, to which we now turn.
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15

16 17 18 **Method**

19 20 21 22 *The Matched Guise*

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24 Within socio- and applied- linguistic research, the indirect matched-guise method is favoured
25
26 as a means of investigating underlying stereotypical prejudices held towards speakers of
27
28 particular language varieties. In the original conception, Lambert, Hodgson and Fillenbaum
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30 (1960) instructed participants in Montreal, Quebec to assess two languages – French and
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32 English – on personal attribute scales. The original method entailed one tape-recorded
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34 speaker reading several controlled samples of the same passage of text in two distinct
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36 language varieties, before asking participants to rate those speech samples. Speech samples
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38 are matched for feature, such as speed, volume, timbre, intonation and length thus minimising
39
40 quality bias. Left to assume all recordings are different speakers, research subjects are then
41
42 asked to listen to the recorded guises before completing an evaluative questionnaire based on
43
44 speaker personality and significant social attributes (Mobärg 1989:22). Lambert et al. (1960)
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46 found language to be a strong influence upon participant evaluations, with more positive
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48 ratings towards English on status and solidarity traits; this was assumed to be indicative of
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50 the higher status of English in Quebec at the time of study.
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55 Response data from the Matched Guise is typically grouped along salient dimensions
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3 – that of solidarity (covertly prestigious) and status (overtly prestigious). Early studies
4 (Lambert, Ainsfeld & Yeni-Komshian, 1965); Lambert, Frankle & Tucker, 1966; Lambert,
5 1967) measured language attitudes across 15 – 18 traits, grouping these traits into *three*
6 distinct categories (personal integrity, competence and social-attractiveness). Traits relating
7 to dynamism, attractiveness and superiority are taken as representative for eliciting attitudes
8 (Zahn & Hopper, 1985).
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16 The Matched Guise test is particularly suited to the aims of the present study, as it
17 tacitly measures and records participant reactions by ‘tapping-in’ to participants’ preexisting
18 unconsciously held attitudes towards language varieties. As participants are not aware of
19 what they are being ‘tested’ on (Garrett, 2010:41), the method is seen as an indirect approach
20 of gaining language attitudes. This technique repeatedly demonstrates different levels of
21 negative rating across different languages which correspond to participants’ actualised
22 language preference (e.g. Loureiro-Rodrigues, Bogges & Goldsmith 2013) and thus provides
23 an informative technique in assessing linguistic vitality. Unlike previous matched-guise
24 studies in Wales which use RP English as a reference point of status (Price, Fluck & Giles,
25 1983; Bourhis, Giles & Tajfel, 1973), the present adaptation provides a contemporary
26 approach suited to the demographic of the study. Furthermore, our adaptation crucially differs
27 from the traditional matched-guise by employing different voice actors with different
28 profiles, as commonly adopted in the verbal guise (see for instance Carrie, 2016; McKenzie
29 and Gilmore, 2017). We include both male and female guises to control for potential
30 evaluative differences driven by gender of guise.
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50 ***Stimuli***

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52 Two male and two female bilingual Welsh-English speaking voice actors were
53 recruited. All four actors grew up in the North Wales heartland, and have experience of
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3 Welsh and English in both formal and informal contexts. To accord with young people's
4 aspirational reference points, recruited actors were aged in their twenties, aligning with the
5 notion that young people orientate themselves towards older iconic and idolised figures
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7 (Boon & Lomore, 2001). Voice actors were required to employ two guises in English
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9 (Standard Welsh-accented and informal Welsh-accented) and two guises in Welsh (Standard
10
11 and informal) which remained congruous with the domain of investigation (for identification
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13 of 'formal' and 'informal' registers, see Jones, 1998). Guises were oriented to north-west
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15 Wales, in-accordance with actors' own true voices and the geographical location in which the
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17 research took place.
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25 Recordings were made in a soundproof room using the Marantz PMD-620 voice
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27 recorder. Voice actors worked with the primary researcher individually in sessions lasting
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29 between 1 - 3 hours. In order to achieve naturalistic, conversational style devoid of 'leading'
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31 information, voice actors were prompted to begin speaking by being asked "What did you do
32
33 over the weekend?", "*Be' wnest ti dros y penwythnos?*"². During these recorded 'chat'
34
35 sessions, the primary researcher assumed the target variety (i.e. English or Welsh spoken in
36
37 informal/formal contexts) to aid 'setting the scene'. Voice actors were given refreshments,
38
39 comfort-breaks and were paid an hourly rate.
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43 As it is imperative that participant reactions are attributed to the language itself, all
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45 guises were recorded by native Welsh-English bilinguals and the following guises were
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47 produced:
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50 [Table 1: near here]
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54 ² This question was given to voice actors as a prompt. The naturalistic responses were then carefully edited to
55 provide sound clips matched for features of tone, intonation, timbre, speed, volume and content. Study
56 participants were not aware of the question asked to voice actors. For excerpts of the script, please refer to
57 Supporting Information.
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5 During participant evaluations, researchers are required to specify the context in
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7 which recordings take place; this negates the risk that participants are guessing contexts for
8
9 themselves (Campbell-Kibler, 2010; Soukup, 2012). To ensure listeners were certain of the
10
11 conversational context of recordings, individual ambient backing tracks were produced and
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13 added to each recording. Low-domain guises were given an informal environment backing
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15 track evocative of a social setting; this included a mixture of indistinguishable low-level
16
17 music, chatter and mobile device alert sounds. High-domain recordings were given a formal
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19 environment backing track evocative of a school setting; this included indistinguishable
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21 murmuring, chairs being moved (reminiscent of classroom activity), worksheets being
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23 distributed, book-pages turning and writing on paper. The backing tracks were at a
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25 consistently lower volume than the speaker recordings in order to keep distraction to a
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27 minimum.
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33 ***Participants***

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35 A total of thirty-five native Welsh-speaking adolescents from Year 10 took part in this
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37 study (19 male, 16 female, aged 14-15 years³). All participants were currently in secondary
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39 education studying at the lower end of Key Stage 4 and were recruited by accessing two
40
41 separate Year 10 classes. The study took place in a geographical area where Welsh is the
42
43 dominant language; the school was specifically chosen for having Welsh as the community
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45 language with Estyn (2014) reporting 82% of the school's pupils as coming from Welsh-
46
47 speaking homes – the fourth largest school intake of L1 students in Gwynedd, North Wales.
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49 Additionally, the school ranked 'Excellent' for performance and prospects in the 2014 Estyn
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51 report, stating that the target school "plans carefully to ensure that there is an increasing use
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56 ³ Our sample represents 8.16% of the overall population based on school type, year group and local authority.
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3 of Welsh”. Teachers and school staff are Welsh speaking and the school exhibits Welsh-only
4 signage displayed in classrooms, corridors and communal areas. All study participants had (i)
5 been attending the target secondary school from the age of 11 and (ii) attended primary
6 education in the local area through the medium of Welsh. Selection criteria stipulated
7 participants must come from homes with high exposure to Welsh. All participants included in
8 the final analysis had high-exposure to Welsh, as assessed by a screening questionnaire
9 regarding habitual language exposure in the home. Pupils receiving low-levels of Welsh
10 exposure outside the school environment were excluded from the study ($n=7$).
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22 ***Materials***

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24 Two tracks – Track A and Track B – were produced, each featuring the same 17
25 thirty-second guise recordings with a 20 second pause between recordings. Both Track A and
26 Track B began with the same practice guise, with the following 16 guises arranged to ensure
27 that each speaker’s guises were distanced maximally apart. We arranged the recordings so
28 that different versions of each speaker (i.e. each speaker’s guise) were featured at maximum
29 distance apart in the final running order. This entailed ordering an individual voice actors’
30 guises at greatest distance from one another. This distancing of guises ensured that
31 participants would not be able to hear same-speaker similarities across guises, and thus
32 remain in the assumption that all guise recordings belonged to different speakers. Both Track
33 A and Track B contained the same test guises but in reverse order to counterbalance for
34 potential tailing effects. In order to provide specific context for listener evaluations, an
35 accompanying image was clearly displayed on a large classroom projector alongside each
36 guise to indicate recording location (i.e. school or social environment). This ensured all
37 participants would perceive a similar conversational setting without deviation for context
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(Campbell-Kibler, 2010; Soukup, 2012).

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5 The questionnaire and answer booklet were designed in Welsh and English and
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7 piloted with 16 pupils in two after-school clubs in Gwalchmai and Llandonna, Anglesey. The
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9 pilots informed necessary alterations, such as increasing soundtrack volume and amending
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11 the questionnaire layout. As pupils were provided with the choice of Welsh or English task-
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13 booklet to avoid deviation from standard practice and to avoid drawing attention to the
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15 linguistic nature of the task. All participants completed questions on gender, age, past
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17 schooling, their own and their family members' home language(s) and three distractor
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19 questions. The distractor questions related to out-of-school interests, activities and current
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21 participation in clubs. The task booklet (Fig. 4) comprised 16 pages of three five-point Likert
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23 scales, one page per guise. During the task, participants were invited to rate each guise on
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25 thirty traits (social attributes) on the Likert scale from 'strongly agree' to 'strongly disagree'
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27 in a similar format to the Estyn survey (2014) with which students were already familiar. The
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29 list of traits was based on existing attitudinal studies (i.e. Echeverria (2005) in the Basque
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31 country; Loureiro-Rodriguez, Boggess & Goldsmith in Galicia, 2013; Woolard in Catalonia,
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33 1989) in addition to traits viewed as socially desirable and relevant to the demographic being
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35 investigated; the selected traits represent conflicting attitudes in the context of Welsh
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37 maintenance within the school system (Price and Tamburelli, 2016). For instance, findings
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39 from Price and Tamburelli (2016) demonstrate that traditional Welsh use is associated with
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41 pretentiousness, judgement and a nerdy high-achieving persona. According to their study, the
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43 Welsh language contrasts with modernity, good-humour and relatability. All guises were
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45 rated on five-point Likert scales in order to mitigate acquiescence bias; inclusion of a mid-
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47 value allows for participants to rate neutrality, rather than a 'forced-choice' scale which a
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49 could encourage bias (Nadler, Weston and Voyles, 2014). For each trait, each guise was rated
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3 on 15 pairs of polarised traits⁴, as follows: Rebellious, Conformist, Exciting, Dull,
4 Fashionable, Traditional, Likes a laugh, Boring, Cool, Book-worm, Confident, Awkward,
5 Popular, Lame, Genuine, Pretentious, Natural, Fake, Good-humoured, Goody-two-shoes,
6 Fun, Annoying, Easy-going, Uptight, Relatable, Nerdy, Friendly, Judgmental, Down-to-earth,
7 Smug⁵. In order to avoid priming effects, we specifically avoided using morphological
8 opposites e.g. ‘*un-natural*’ in opposition to ‘*natural*’, as the negative (i.e. ‘*unnatural*’) includes
9 the positive (i.e. ‘*natural*’) as well as an instance of prefixiation, which has been shown to
10 lead to priming effects (e.g. Chateau, Knudsen, & Jared, 2002).
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22 *Design*

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24 The independent variables were language of guise (English or Welsh), gender of guise
25 (male or female) and register of guise (high or low). The total matched guise score served as
26 the dependent variable, while participant gender was the independent variable for between
27 subjects. Scores are cumulative and were derived through participants’ rating of traits.
28 Responses were coded from 5 (“strongly agree”) to 1 (“strongly disagree”) for positive traits
29 and from 1 (“strongly agree”) to 5 (“strongly disagree”) for negative traits, so that strongly
30 agreeing with the adjective “exciting” would result in a higher score while strongly agreeing
31 with its polar opposite “dull” would result in a lower score.
32
33 Participants could score each of the thirty traits on a scale of 1 to 5. Each recording could
34 therefore receive a maximum aggregate score of 150 (30 traits x 5), leading to a potential
35 total score of 300 for each guise (as there were two voice actors representing each guise, as
36 described in the “Stimuli” section). Aggregate scores for each language had a potential
37 maximum score of 600, as each language was scored across two registers and two genders of
38 guise (i.e. $150 \times 2 \times 2 = 600$).
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55 ⁴ Figure 4 demonstrates the arrangement of traits as they appear in the task booklet.

56 ⁵ This selection of polarised traits provides an even number of positive and negative traits as semantically
57 matched to each other as possible,
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Procedure

The questionnaire-test booklet was administered during two one-hour classes. Participants were tested by proficient Welsh-English bilingual researchers who introduced themselves and explained the purpose of their visit; the task was explained in relation to 'youth club activity provision' in order to mask the association of the listening task with language attitudes. Participants were told they would hear clips of conversations, after which they were required to rate the recordings on a number of traits.

Participants simultaneously received one English and one Welsh booklet of equal length and were told they could choose whichever booklet they preferred. Participants were then familiarised with all adjectives and the concept of the Likert scale. After having explained and answered any questions participants had regarding adjectives and procedure, all participants were required to complete a trial task. The trial entailed listening to a practice guise three times whilst seeing an image displayed on the classroom projector. During this time, participants were asked to rate the trial guise on the thirty specified separate traits. When all participants had completed the trial task, they were asked to confirm whether they had understood the task, had heard the recordings clearly and could see the displayed image clearly. During this feedback period, participants were visited individually by the teacher and second moderator before testing commenced. Participants were then told to prepare to work individually and quietly for the upcoming task where they would hear a number⁶ of different speaker voices. Guise recordings were played for thirty seconds, with twenty seconds separating each guise to allow for task completion. The primary researcher was able to pause the sound track if necessary.

⁶ Participants were told to prepare for eighteen different speakers as advised by Loester (2013), although only sixteen guises were played. Loester (2013) reports this device in mitigating participant fatigue and leaving participants feeling positive about the task experience.

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3 The primary researcher and an external moderator worked alongside the class teacher
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5 to administer the questionnaire and check progress during the task. One male and one female
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7 young white Welsh-British moderator were present, both with experience working with
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9 adolescents (for effects of researcher sex, ethnicity and language on response rate and
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11 reliability, see Price, Fluck & Giles, 1983; Webster, 1996; Bellin, Matsuyama & Schott,
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13 1999; on the importance of local involvement during testing, see *Dörnyei 2010: 31; 75*).
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15 Correspondence with participants and staff was through the medium of Welsh at all times
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17 unless informants requested information through the medium of English. When all
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19 participants had finished the experiment and task booklets had been collected, participants
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21 were given a full debrief; this included a check to ascertain whether respondents had realized
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23 the varying guises were produced by only four voice actors. The results of this check verifies
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25 that all participants believed they were rating different speakers (see for example Kristiansen,
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27 2009).
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33 **Results**

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35 A 2 (participant gender: male or female) × 2 (language of guise: English or Welsh) ×
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37 2 (register of guise: high or low) × 2 (gender of guise: male or female) mixed-design analysis
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39 of variance (ANOVA) was performed on the data, with participant gender as the between-
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41 subjects variable. The results revealed a main effect for three of the four variables: participant
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43 gender $F(1,33) = 9.088, p < 0.01, \eta_p^2 = .216$; register of guise $F(1,33) = 28.158, p < 0.001, \eta_p^2 =$
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45 $.460$; and language of guise $F(1,33) = 65.183, p < 0.001, \eta_p^2 = .664$. Figure 1 shows the overall
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47 scores for each language, while figure 2 shows how the participants scored the different
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49 registers in each language. Figure 3 shows the scores obtained for each language according to
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51 participant gender. Table 2 shows the data expressed numerically.
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3 There was also a two-way interaction between participant gender and language:
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5 $F(1,33) = 12.222, p = 0.001, \eta_p^2 = .270$; between gender of guise and language $F(1,33) =$
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7 $5.785, p = 0.022, \eta_p^2 = .149$, and between gender of guise and register $F(1,33) = 17.775, p <$
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9 $0.001, \eta_p^2 = .350$. Bonferroni-adjusted *post hoc* tests showed that the different scores between
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11 the two genders are highly statistically significant for Welsh ($p < 0.001$) but not for English (p
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13 $= .088$), and that the gender of the guise affects scores for English guises ($p = 0.046$) but not
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15 for Welsh ($p = 0.925$). Figure 3 shows that while both genders rated English guises more
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17 positively than Welsh guises overall, female participants rated Welsh guises significantly
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19 more favourably than did male participants.
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22 None of the other interactions were significant ($p = .199$ or greater).
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[Table 2: near here]

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48 Discussion

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52 We proposed that the reported trend for speakers to abandon the Welsh language
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54 beyond the classroom (Baker, 2003; Gathercole & Thomas, 2009; Thomas & Roberts, 2011;
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3 Thomas, Apollonia, & Lewis, 2014) could be unpacked by investigating speaker covert
4 attitudes towards Welsh and English in home and school contexts. In our first research
5 question, we asked what covert attitudes are held by L1 Welsh-English bilingual adolescents
6 towards Welsh and English; our results have demonstrated that English guises elicit more
7 positive covert attitudes than Welsh overall. Given the pervasive status of English in young
8 peoples' daily lives in connection to new technologies, media and popular culture, it is
9 generally anticipated that some level of favourability towards the dominant language exists
10 within a minority language context. However, when investigating whether our L1 Welsh
11 cohort perceive differences between Welsh and English as a conversational medium, we
12 found that 'social' guises were rated more favourably than 'school' guises; this is not
13 surprising given that informal varieties often accrue higher ratings on social and solidarity
14 traits (see Echeverria, 2005), when specifically in a solidarity-stressing context (i.e. school vs
15 home). Consistent with the literature on attitudes towards informal and formal varieties
16 (Bourhis, Giles and Tajfel, 1973; Bellamy, 2010; Hogg et al 1984; Stewart et al, 1985;
17 Trudgill 2000), we found that informal register guises do attract more positive responses on
18 socially desirable qualities than formal register guises. However, as demonstrated in Figure 2,
19 both social and school registers of English were rated most favourably overall by both
20 genders, regardless of context. Therefore, while low registers are consistently rated more
21 favourably than high registers within each language, English is rated higher than Welsh
22 overall, with favourability towards high-register English being higher than that attributed to
23 low-register Welsh. We further hypothesised that, if the previously reported gender gap is
24 due to the development of a generic trend whereby Welsh is more readily associated with the
25 school environment than with everyday conversation (the "Inverted diglossia" of Price and
26 Tamburelli, 2016), then we would see different language attitudes towards Welsh and English
27 between male and female participants. In line with the concept of inverted diglossia, our
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3 results demonstrate a gender gap between males and females within an L1 community
4 context. This is evident in the ratings attributed towards Welsh and English guises, with male
5 participants rating Welsh less positively than did female participants. This result lends
6 empirical support to the view that Welsh is increasingly perceived as a language of school
7 and officialdom, with English fulfilling the role of the language of leisure.
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16 **Despite the fact that causative factors of Welsh language disfavour among speakers**
17 **previously reported in the literature** (i.e low-levels of confidence, exposure to language,
18 lacking opportunities of use) do not apply to our L1 heartland cohort, Welsh is still being
19 perceived as less socially appropriate among young people – particularly males – among
20 active L1 speakers. Our results show that lacking opportunity to use Welsh is not the only
21 issue for consideration in assessing the linguistic behaviour of Welsh adolescents. **Our study**
22 **shows that young speakers turning away from Welsh cannot be entirely explained by lack of**
23 **speakers' confidence or lack of opportunity for use, as all of our participants were Welsh-**
24 **English L1 bilinguals with high native fluency in Welsh. Contrary to presently accepted**
25 **explanations, this phenomenon cannot be fully explained by low-levels of confidence in**
26 **speakers or that speakers resort to English as the language of inclusivity (as** reasoned by
27 Thomas & Roberts, 2011). Our study cohort were of high native fluency with Welsh as the
28 home language, with reportedly high levels of confidence and oral performance in Welsh
29 academically (see Estyn, 2014).
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48 **We further understand that confidence and lacking opportunity cannot wholly explain**
49 **speakers turning away from Welsh,** as if this were the case, we would have found no
50 difference in attitudes between males and females growing up in the heartlands, since both
51 genders have Welsh as an L1 and systematic opportunities to use Welsh in a broad range of
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3 conversational domains. Contrastively, Welsh is significantly disfavoured as a social status
4 symbol most befitting youth culture among males. If this were simply explained by English
5 as a popular global language of youth culture, then female participants would be expected to
6 display the same tendencies. Additionally, as Estyn (2014) reported no significant gender gap
7 between the *academic* achievement of KS3 and KS4 boys and girls in the target school, we
8 suggest that our results demonstrate English as more befitting an emblem of youth culture
9 among Welsh L1 males.
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20 Our study demonstrates Welsh being perceived as a language of formality and overt
21 prestige, thus being rejected as a conversational medium among males both inside and
22 beyond the classroom (as reported in the wider literature). Our results accord with wider
23 sociolinguistic gender research, which consistently demonstrates that female speakers
24 converge towards overtly prestigious speech varieties (i.e. Eckert, 1989, 1990, 1998) and
25 male speakers reject prestige forms ‘from above’ (Labov, 1990; Romaine, 2003). Females
26 generally demonstrate more positive attitudes towards standard varieties, employing more
27 standard forms in signaling linguistic social status (Milroy, 1987; Trudgill, 1972); females are
28 also ‘less anchored’ vernacular speakers of their community (Preston, 2016) and more likely
29 to converge towards prestigious forms. Female speakers also tend to be more active users of
30 the H variety; previous studies have found female speakers to be more active users of Welsh
31 than their male peers (Hodges, 2011; Thomas and Roberts, 2011) and found connotations of
32 Welsh with formality and academic achievement among males (Price and Tamburelli, 2016).
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48 Indeed, it is well known that males habitually diverge from the formal language, behaving in
49 direct opposition to the established status quo. Young male speakers are known to risk social
50 exclusion by their peer group by use of the superordinate speech style (see Labov, 1972) and
51 therefore particularly averse to adopting what is considered the overtly prestigious and formal
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3 variety. A sort of sociolinguistic ‘rebellion’ is thus expressed in attitudes divergent from the
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5 superordinate variety and convergent towards the covertly prestigious English language in
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7 order to gain, or possibly retain, in-group solidarity with male peers. This is in line with the
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9 work of Echeverria (2005) which found that the variety most highly regarded by adolescents
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11 for social use was the variety that was less prominent in the school curriculum (i.e. vernacular
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13 Basque). If this interpretation is correct, the overt policies of the immersive Welsh schooling
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15 environment may be implicitly and unwittingly stimulating the association of English as the
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17 language of ‘rebellion and refuge’ (Price and Tamburelli, 2016). Our findings are therefore
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19 consistent with the hypothesis advanced in this paper, namely that the established gender gap
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21 is at least partly due to a generic trend of “Inverted diglossia” (Prince and Tamburelli, 2016)
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23 whereby the increased association of Welsh with the school environment is creating an
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25 essentially diglossic opposition with English as the language of everyday conversation.
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29 In addition, we suggest that such top-down attitudes influence expectations for
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31 success, and thus female participants of this study tend to rate Welsh more favourably in
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33 accordance with the associative opportunities for Welsh-medium socio-economic
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35 advancement in contemporary Wales today. As Welsh guises are being perceived by female
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37 participants in accordance with formality, hard-work, schooling and social aspirations, those
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39 same Welsh guises appear to be incompatible with the anti-schoolwork construction of
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41 masculinity (Court, 2001: 34). On this view, It is therefore unsurprising that males tend to
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43 turn towards English as a medium of social communication, and thus prefer English guises
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45 insofar as they represent the rejection of authority among males (for reinforcement of peer-
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47 group identities, see Paulini, Maher, & Murty, 2014 ; see Esc.. 2005; Woolard, 2003: 86). We
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49 suggest thus explaining the high levels of covert prestige afforded to English guises could be
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51 partly due to English being recognised as an emblem of adolescent culture among Welsh
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53 male adolescents in the heartlands.
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5 Finally, it must be noted that such favourability attributed by our participants towards
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7 English is in stark contrast with reports from the literature (i.e. Laugharne, 2007; Morris,
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9 2014) which state L1 speaker language attitudes to be more favourable towards Welsh. While
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11 these previous reports elicited overt attitudes (see earlier discussion in the literature review),
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13 our findings provide a candid report on speakers' less-consciously held covert beliefs, with
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15 potentially more informative evidence on language behaviour. Unlike previous studies, our
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17 L1 Welsh adolescents view English as more favourable than Welsh on measures of social
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19 attractiveness within youth culture. It is therefore unsurprising that our results diverge from
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21 those reported in previous literature, due to the direct manner of their methodologies;
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23 recalling Baker (1992), the use of direct methods elicit an outer view, while indirect methods
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25 elicit accurate representations of participant attitudes. If, as some have argued (e.g. De
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27 Houwer, 1999), it is primarily covert 'inner' held beliefs which lie at the basis of real-time
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29 language behaviour and can be understood as determinants of language uptake (see McGuire,
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31 1974; 1976), then our study contributes a vital step forward in quantitatively eliciting covert
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33 attitudes as a measure of minority language vitality.
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39 **Conclusions**

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44 This study provides quantitative evidence that attitudes are an important issue at L1
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46 community level as well as the L2 communities already observed in previous literature
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48 (Hodges, 2011; Price & Tamburelli, 2016; Thomas et al, 2012), and that opportunity to use
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50 Welsh and language confidence are not as central to explaining reported trends of speakers
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52 turning away from Welsh as previously thought.
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55 Along with our findings, the cohort demonstrate high levels of confidence and oral
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3 performance, with no obvious gender gap in *academic* achievement (Estyn, 2014). While we
4 acknowledge that future attitude research should directly measure language aptitude, all
5 pupils in the present study had high exposure to Welsh, and thus little variance regarding
6 confidence and little variance in aptitudes; this suggests that ‘confidence’ is not a major
7 driving force behind male speakers’ disfavour of Welsh as previously suggested (see for
8 example, Thomas and Roberts, 2011). Instead, our study indicates that English is perceived
9 as more relatable medium to young male adolescents than Welsh for use in informal social
10 domains. The current study helps to explain the phenomenon whereby Welsh-medium pupils
11 are reportedly using Welsh for in-class exercises yet conducting wider community and peer-
12 to-peer social interaction through English (see Cenoz 2008 for similar findings in other
13 minority languages). These findings provide a crucial link in understanding the perceived
14 image of Welsh and English guises in the eyes of young L1 Welsh speakers, thus giving
15 explanatory power behind both L1 and L2 speakers’ ‘reluctance’ to apply the language in
16 informal communicative domains (Thomas and Roberts, 2011). The extent to which this
17 compartmentalisation – Welsh as the middle-class socially advancing language, English as
18 the elsewhere informal language – is evident in young speakers’ perceptions today has been
19 explored throughout this study.

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In terms of practical implications, our study indicates that, if Welsh is to thrive as a
medium of communication among young people, there is a need for (i) Welsh to become
more relevant to youth culture (for example within contemporary music and media domains).
Also, (ii) a greater focus on Welsh male role-models beyond the classroom environment and
into the social domains, both across an advanced case of revitalisation and also across the
breadth of the heartland stronghold. While the demographic of this study are Welsh-English
bilinguals, the attitudes uncovered by this study – combined with previous reports in the
literature relating to male speakers’ preference of English – suggest that we have a covert

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3 issue which needs addressing. In order to address and foster positive attitudes towards Welsh
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5 language among young people, feasible interventions may include the introduction of
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7 contemporary arts within the classroom environment, thus relating the language to
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9 intrinsically motivated activities. Such activity could capitalise on the new curriculum
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11 coming into force in Wales in 2020 by linking with existing vocational schemes, such as the
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13 Lead Creative Schools scheme (Welsh Government, 2016).
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Table 1

	Low domain register		High domain register	
Welsh	<i>Male</i>	<i>Female</i>	<i>Male</i>	<i>Female</i>
English	<i>Male</i>	<i>Female</i>	<i>Male</i>	<i>Female</i>

For Peer Review

Table 2: Mean scores (and standard deviations) on Welsh and English guises for male (N = 19) and female (N = 16) participants

English		
	High Register guise	Low register guise
Males	180.71 (20.00)	191.44 (17.43)
Females	185.12 (26.02)	199.43 (18.67)

Welsh		
	High Register guise	Low register guise
Males	153.73 (22.88)	161.71 (20.82)
Females	173.34 (21.12)	188.78 (25.90)

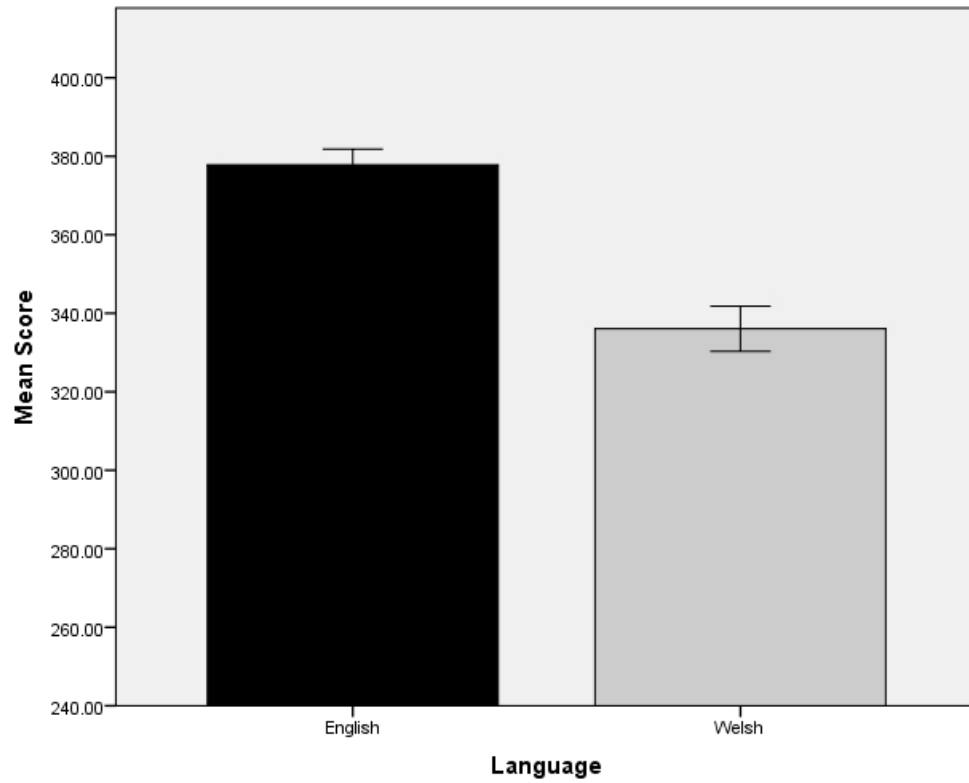


Figure 1: Total matched guise scores for each language

165x132mm (96 x 96 DPI)

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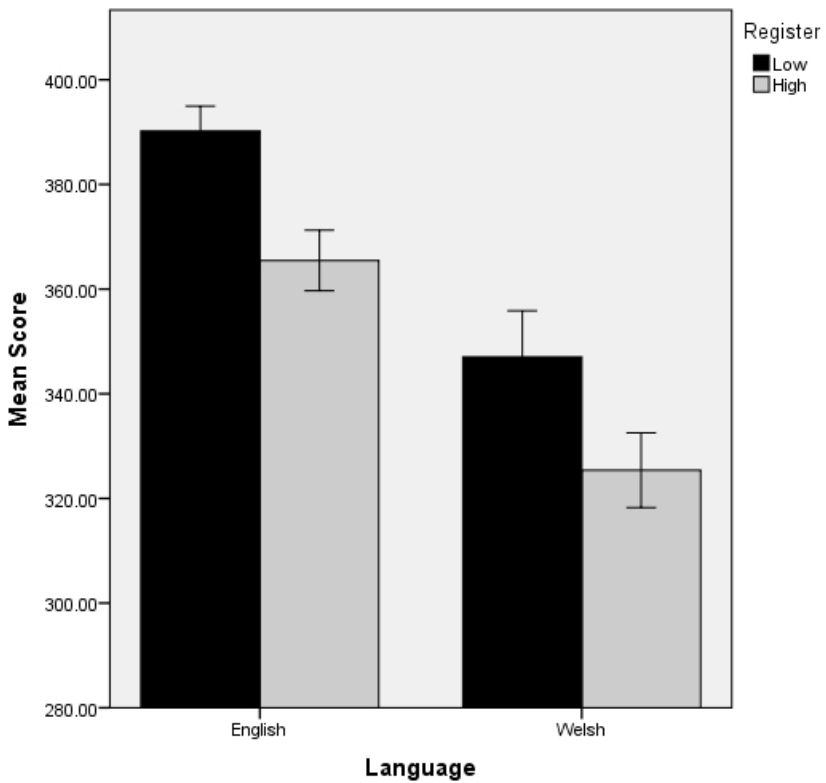


Figure 2: Matched guise scores for each language by register of guise

165x132mm (96 x 96 DPI)

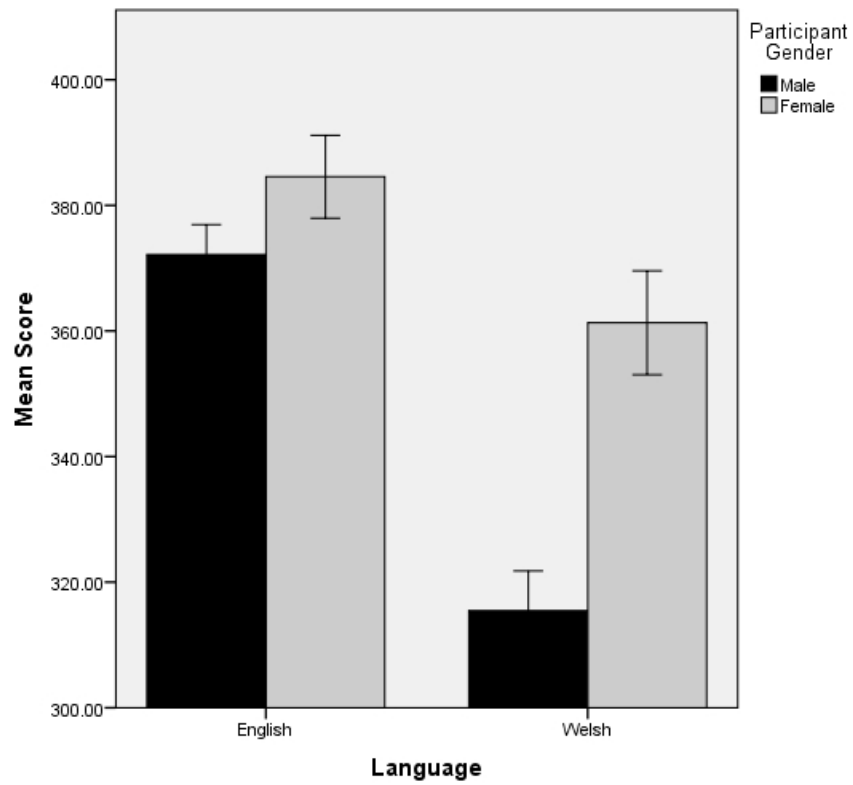


Figure 3: Scores for Welsh and English guises by participant gender

165x132mm (96 x 96 DPI)

? How much do you agree/ disagree that the speaker seems:

	totally agree	agree	neither agree nor disagree	disagree	totally disagree
judgemental	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
relatable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
friendly	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
uptight	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
down-to-earth	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
boring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
fun	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
smug	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
annoying	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
good-humoured	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	totally agree	agree	neither agree nor disagree	disagree	totally disagree
fake	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
awkward	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
dull	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
rebellious	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
easy-going	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
genuine	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
exciting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
conformist	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
natural	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
pretentious	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	totally agree	agree	neither agree nor disagree	disagree	totally disagree
likes a laugh	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
'goody-two-shoes'	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
fashionable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
book-worm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
cool	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
traditional	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
confident	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
nerdy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
popular	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
lame	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Speaker

1

? Where do you think this conversation is taking place?

? Would you socialise with this person? **Yes / No**

Figure 4: Task booklet example page in English

183x233mm (96 x 96 DPI)