Data documentation

Data belong to:
Berger, Stephanie. 2024. *"Like, comment, subscribe" – Perception of acoustic-prosodic features of content creators' charismatic speech on YouTube* [PhD thesis]. Kiel University. Kiel, Germany. `https://doi.org/10.38071/2024-00858-9`

Documents

- "**P1_Charisma-adjacent.html**" – the linear mixed models and visualizations for the first perception study (prosodic manipulations; Chapter 8), only for the charisma-adjacent attributes.

- "**P1_Charisma-familiarity.html**" – the linear mixed models, correlations and visualizations for the first perception study (prosodic manipulations; Chapter 8), only for the charisma ratings and familiarity.

- "**P2_Charisma-adjacent.html**" – the linear mixed models and visualizations for the second perception study (pause duration and breathing; Chapter 9), only for the charisma-adjacent attributes.

- "**P2_Charisma-familiarity.html**" – the linear mixed models, correlations and visualizations for the second perception study (pause duration and breathing; Chapter 9), only for the charisma ratings and familiarity. This html also includes the data and code for pause duration distribution in the entire speech corpus.

- "**P3_Intonation.html**" – the correlations between mean ratings of the unmodified stimuli with intonation-related features, both inferential and descriptive, as well as visual comparisons between corpus and stimuli (Chapter 10).

- "**P3_Pitch.html**" – the correlations between mean ratings of the unmodified stimuli with pitch-related features, both inferential and descriptive, as well as visual comparisons between corpus and stimuli (Chapter 10).

- "**P3_Tempo.html**" – the correlations between mean ratings of the unmodified stimuli with tempo-related features, both inferential and descriptive, as well as visual comparisons between corpus and stimuli (Chapter 10).

Data frames

Results_accenttiming_final.txt

Column name	Data type	Explanation and possible cell values
speaker	string	Speaker abbreviation (AD = Alfie Deyes, CB = Colleen Ballinger, DH = Daniel Howell, LP = Louise Pentland, LS = Lilly Singh, MF = Markiplier, MP = Matthew Patrick, PL = Phil Lester, SP = Stephanie Patrick, ZS = Zoe Sugg)
unit	string	Indicates if the row refers to a phrase or a pause (phrase for corpus measurements, long for measurements of phrases in long stimuli, short for measurements in short stimuli)
majorphrase	string	Phrase label (speaker abbreviation plus running number)
durationMajor	numeric	Duration of major intonational phrase in s
startIP	numeric	Start point of major intonational phrase
endIP	numeric	End point of major intonational phrase
time_accent	numeric	Time point of the accent tone (if the tone comes in the syllable before or after the perceptually prominent syllable, this value signifies the time of the actual tone)
label_accent	string	Label of the accent tone (marked by *): H = high; L = low; ^= upstep; ! = downstep; < = tone in following syllable; > = tone in preceding syllable
prominence	numeric	Level of the prominence of the syllable: 1 = weak; 2 = strong; 3 = extra-strong/emphatic; –3 = extra-strong/emphatic without tonal movement
accentNr	numeric	Number of the accent within the minor phrase
vowel	string	Vowel (SAMPA annotation) of the prominent syllable
startVowel	numeric	Start point of the vowel
endVowel	numeric	End point of the vowel

results_corpusdur.txt

Column name	Data type	Explanation and possible cell values
speaker	string	Speaker abbreviation (AD = Alfie Deyes, CB = Colleen Ballinger, DH = Daniel Howell, LP = Louise Pentland, LS = Lilly Singh, MF = Markiplier, MP = Matthew Patrick, PL = Phil Lester, SP = Stephanie Patrick, ZS = Zoe Sugg)
corpusdur_s	numeric	Duration of annotated corpus in s
corpusdur_min	numeric	Duration of annotated corpus in minutes

results_experiments.txt[1]

Column name	Data type	Explanation and possible cell values
exppart	numeric	Part of the experiment: 1 = rating of charisma-adjacent attributes; 2 = rating of charisma directly and familiarity with the speakers
scale	string	Attribute that was rated: authentic, enthusiastic, likable, persuasive, charismatic

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[1] Original collection of perception data: November 2020 to October 2022

results_experiments.txt (continued)

Column name	Data type	Explanation and possible cell values
list	numeric	Experimental list for Part 1 of the experiment (numbers 1 to 4)
speaker	string	Speaker abbreviation (AD = Alfie Deyes, CB = Colleen Ballinger, DH = Daniel Howell, LP = Louise Pentland, LS = Lilly Singh, MF = Markiplier, MP = Matthew Patrick, PL = Phil Lester, SP = Stephanie Patrick, ZS = Zoe Sugg)
manip	string	Type of manipulation:
		Short: ORIG = unmodified HF0/LF0 = increased/decreased pitch level HF0R/LF0R = widened/narrowed pitch range LSR = low speech rate MSR = medium speech rate HSR = high speech rate falling = falling final contour plateau = level final contour rising = rising final contour
		Long: LONG_BR = long pauses with breathing noise LONG_NBR = long pauses without breathing noise MED_BR = medium pauses with breathing noise MED_NBR = medium pauses without breathing noises SHORT = short pauses without breathing noises MIX_BR = one non-breathing and two breathing pauses MIX_L = one long, medium, and short pause CUT = cuts instead of pauses _O = unmodified _M = modified
order	numeric	Order in which the stimuli were presented to each participant (since the order was randomized)
response	numeric	Rating response of the participants for each stimulus; 1 = strongly disagree, 2 = disagree, 3 = neither agree nor disagree, 4 = agree, 5 = strongly agree
group	numeric	Experiment group: 1 = short stimuli and charisma-adjacent attributes; 2 = long stimuli and charisma-adjacent attributes; opposite stimuli with direct charisma ratings
vp.id.cont	string	Anonymous participant code: Letter p indicates participant, running number follows, randomly assigned.
response_factor	string	Rating response as a character factor: strongly disagree, disagree, neither agree nor disagree, agree, strongly agree
response_familiarity	string	Familiarity rating as a character factor: I do not know the speaker, Unsure, They seem familiar, I know the speaker
familiarity_recode	numeric	Re-coded rating response of the familiarity with the speaker so that the more familiar a speaker was rated, the higher was the numerical value: 1 = I do not know the speaker, 2 = Unsure, 3 = They seem familiar, 4 = I know the speaker
speaker_gender	string	Gender of speaker: F = female, M = male
speaker_origin	string	General origin of speaker: ENG = England, NAM = North America

Results_promratio_final.txt

Column name	Data type	Explanation and possible cell values
speaker	string	Speaker abbreviation (AD = Alfie Deyes, CB = Colleen Ballinger, DH = Daniel Howell, LP = Louise Pentland, LS = Lilly Singh, MF = Markiplier, MP = Matthew Patrick, PL = Phil Lester, SP = Stephanie Patrick, ZS = Zoe Sugg)
unit	string	Type of stimulus. Possible values: short (for stimuli with prosodic manipulations), long (for stimuli with pause duration and breathing noise manipulation), phrase (for corpus).
phrase	string	Phrase label (speaker abbreviation and running number)
duration_phr	numeric	Phrase duration in s
syllable_number	numeric	Number of (produced) syllables in the phrase
speechrate	numeric	Speech rate calculated as syllable_number / duration_phrase, in syll/s
promsyll	numeric	Number of prominent syllables in the phrase
ratioprom	numeric	Ratio of prominent syllables to syllables in the phrase
prom1	numeric	Number of syllables with weak prominence (level 1)
prom2	numeric	Number of syllables with strong prominence (level 2)
prom3	numeric	Number of syllables with extra-strong (emphatic) prominence (level 3)

results_prosodypro.txt

Column name	Data type	Explanation and possible cell values
speaker	string	Speaker abbreviation (AD = Alfie Deyes, CB = Colleen Ballinger, DH = Daniel Howell, LP = Louise Pentland, LS = Lilly Singh, MF = Markiplier, MP = Matthew Patrick, PL = Phil Lester, SP = Stephanie Patrick, ZS = Zoe Sugg)
phrase_pause	string	Indicates if the row refers to a phrase or a pause (phrase for corpus measurements, long for measurements of phrases in long stimuli, short for measurements in short stimuli)
unit	string	Phrase/pause label (speaker abbreviation plus running number; pauses also have a code indicating pause type: PSP = silent pause at syntactic boundary; PSD = silent pause before/after discontinuity; PSH = silent pause for hesitation; PSE = silent pause for emphasis)
maxf0*	numeric	Maximum F0 in phrase in Hz
minf0*	numeric	Minimum F0 in phrase in Hz
excursion_size*	numeric	Difference between maxf0 and minf0 in st
pitch_sd_Hz[+]	numeric	Standard deviation of F0 within phrase in Hz
pitch_sd_st[+]	numeric	Standard deviation of F0 within phrase in st
meanf0*	string	Mean F0 in phrase in Hz
duration*	numeric	Phrase/pause duration in ms
median_pitch*	numeric	Median pitch in phrase in Hz

* measured with ProsodyPro (Xu, 2013[2], version 5.7.8.1)
[+] additions to ProsodyPro by author

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[2]Xu, Y. (2013). ProsodyPro – A tool for large-scale systematic prosody analysis. *Proceedings of Tools and Resources for the Analysis of Speech Prosody (TRASP 2013), Aix-en-Provence, France*, 7–10.

stimdur_long_unchanged_stimuli.txt

Column name	Data type	Explanation and possible cell values
speaker	string	Speaker abbreviation (AD = Alfie Deyes, CB = Colleen Ballinger, DH = Daniel Howell, LP = Louise Pentland, LS = Lilly Singh, MF = Markiplier, MP = Matthew Patrick, PL = Phil Lester, SP = Stephanie Patrick, ZS = Zoe Sugg)
stimdur_s	numeric	Duration of long stimulus in s
stimdur_min	numeric	Duration of long stimulus in minutes