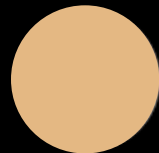




'23 MINUTES IS WALKING DISTANCE, UNLESS...'

FACTORS DETERMINING
WALKING TIME THRESHOLDS
OF TWITTER USERS

Dr. Hannah Hook



Mal 🧑

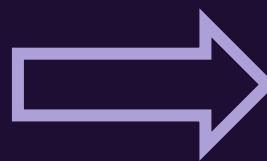


Do you guys consider 23 minutes a walking distance?

11:04 PM · Mar 28, 2022

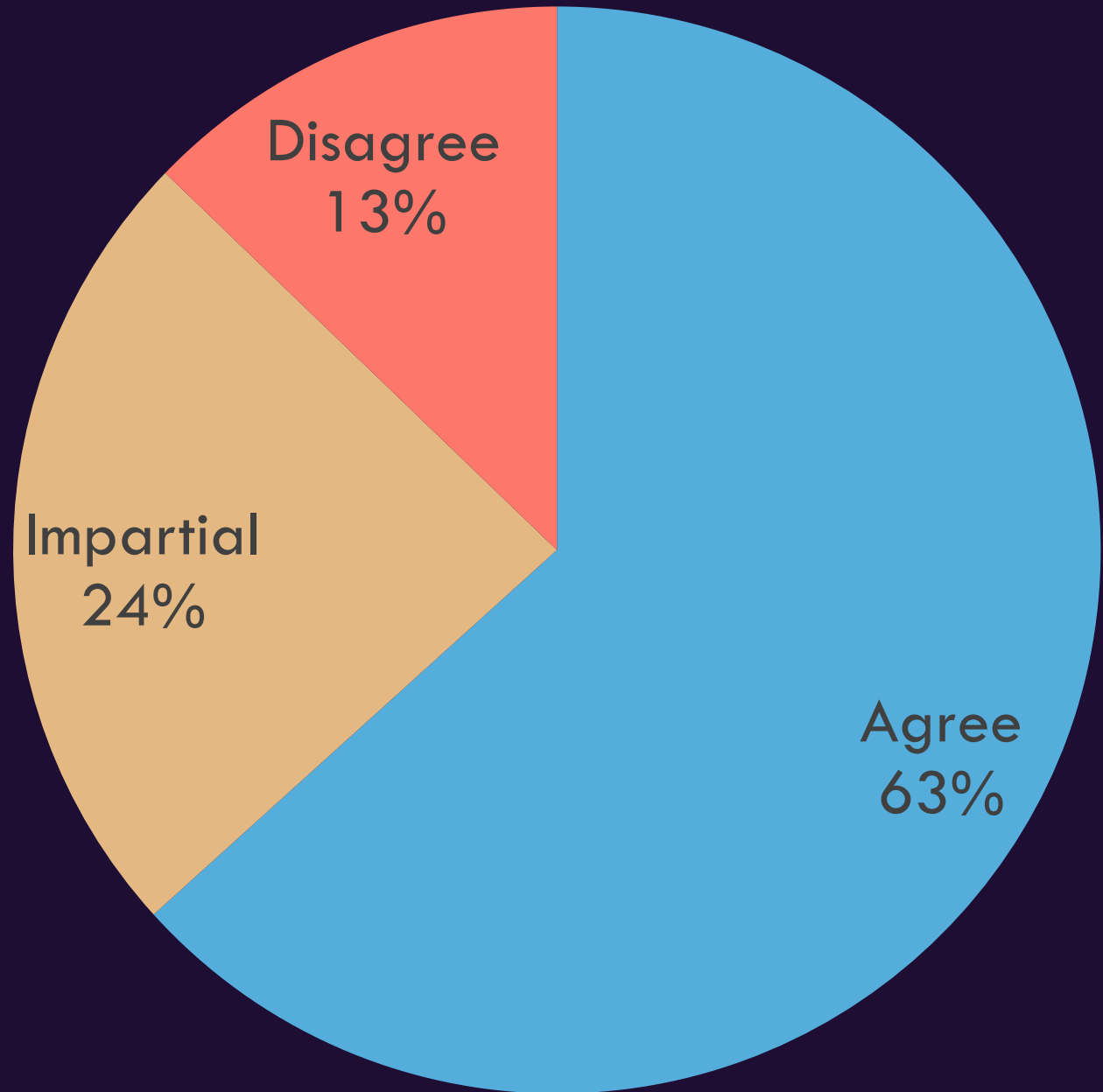
28 March – 7 July 2022

11,905 replies



n = 4,970

23 MINUTES
IS
WALKING
DISTANCE



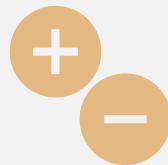
1

THEMATIC
ANALYSIS



2

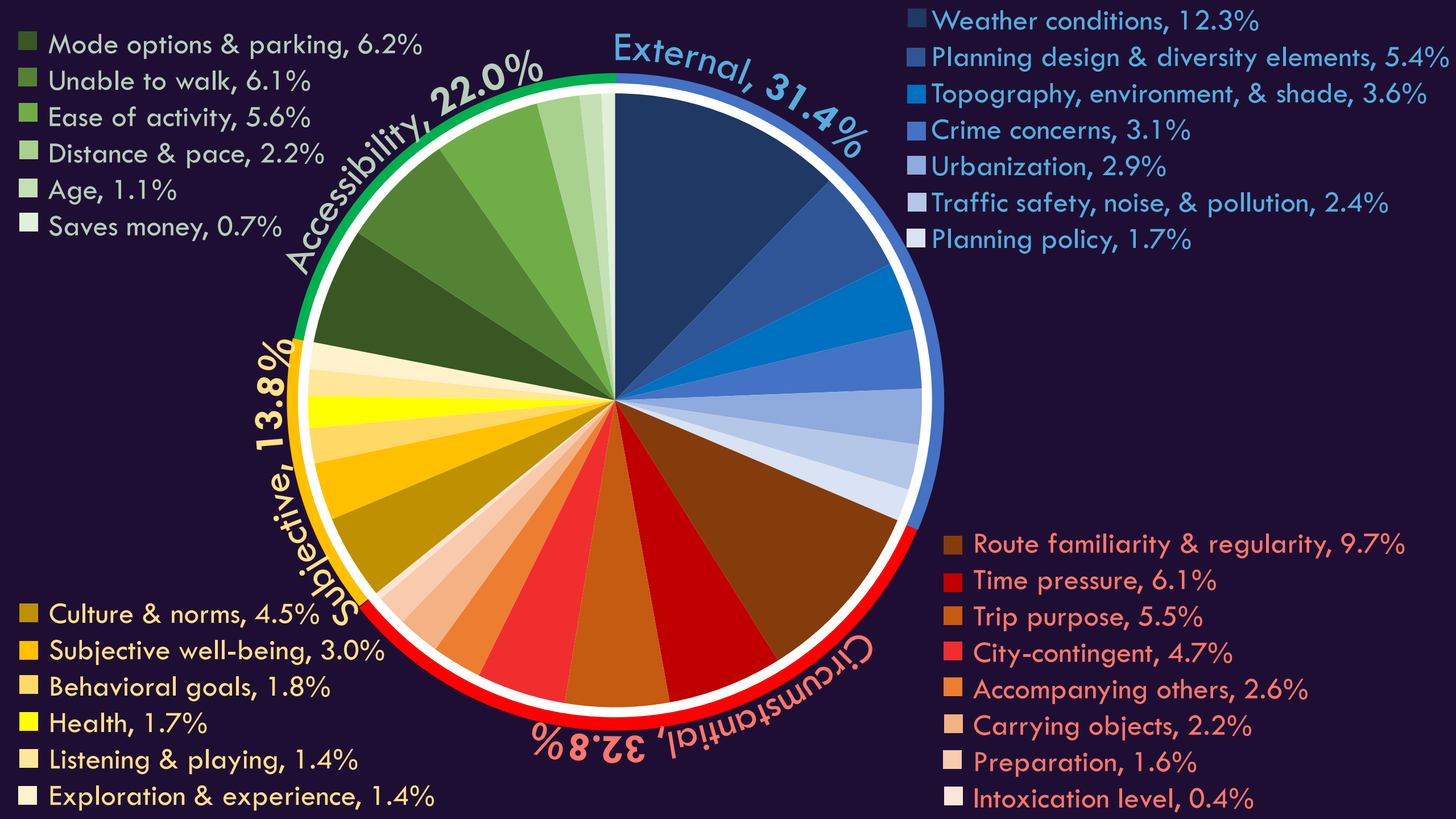
SENTIMENT
ANALYSIS

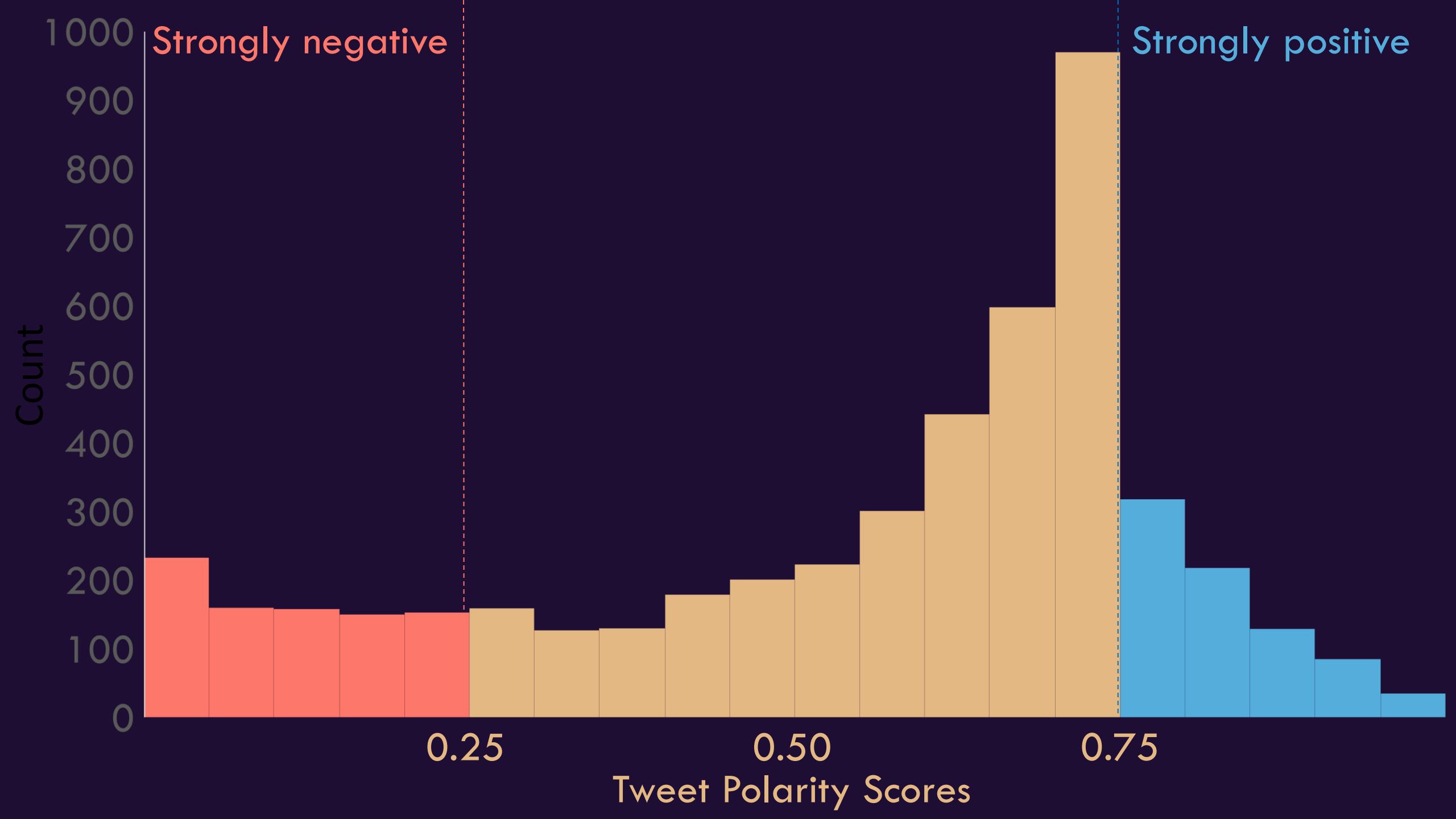


3

ANOVA
MEAN
COMPARISON







EXTERNAL

- (-) **Weather conditions** ($p < 0.001$): 'If it's raining, no.'
- (-) **Planning diversity and design elements** ($p < 0.001$): 'No, but I live somewhere without good sidewalks.'
- (-) **Crime concerns** ($p < 0.001$): 'I need to walk one way for 15 minutes (...) and I'm scared, [so] I'm going to run.'
- (-) **Traffic safety, noise, and pollution** ($p < 0.001$): 'Too many pedestrians are hit and killed where I live. The frequency is unnerving and definitely makes walking here unappealing.'

CIRCUMSTANTIAL

- (-) **Route familiarity and regularity** ($p < 0.001$): 'If it was daily, I'd invest in a bike to lock and leave at the destination.'
- (-) **Time pressure** ($p < 0.001$): 'Depends if I am in a hurry or not. Anything under 5 minutes, I'd consider easy walking distance. Over 12 minutes, I'd check for buses.'
- (-) **Trip purpose** ($p < 0.001$): 'Walking distance to work or to pick up groceries? Absolutely not.'
- (-) **City-contingent** ($p = 0.002$): 'Am I in Tokyo? Sure. Am I in Oklahoma? No.'

CIRCUMSTANTIAL

- (-) **Accompanying others** ($p < 0.001$): 'By myself? Yes. With a wife and two kids? No.'
- (-) **Carrying objects** ($p < 0.001$): 'Under 30 [minutes] is waking distance unless you have to grab groceries or something. I'm definitely not hauling bags back that far.'
- (-) **Preparation** ($p = 0.020$): 'If I know [about the walk] ahead of time, and can plan my outfit and shoes and bag accordingly, I won't mind. If someone just unexpectedly throws a 23 minute walk at me, [I am] not happy about that at all.'

SUBJECTIVE

- (-) **Subjective well-being (p=0.002):** '[A 23-minute walk] seems generally unpleasant.'
- (-) **Behavioral goals (p=0.002):** 'Only when I feel productive.'
- (-) **Health (p=0.010):** 'It depends on my health that day.'

ACCESSIBILITY

- (-) **Mode options and parking ($p < 0.001$):** 'Not if I have a car or a bike and there is parking available.'
- (-) **Unable to walk ($p < 0.001$):** 'No because I have a physical disability.'
- (-) **Age ($p = 0.002$):** 'When I was 16, yes. Now, no way.'
- (-) **Saves money ($p = 0.005$):** 'Depends. With gas prices as they are, I might be easier to convince.'
- (+) **Distance and pace ($p = 0.009$):** 'Yes. It's not even 23 [minutes] if you walk fast.'

23 MINUTES IS WALKING DISTANCE
UNLESS...



EXTERNAL
CIRCUMSTANTIAL
SUBJECTIVE
ACCESSIBILITY



Distance
& Pace

1

**DATA
BIAS**



2

**CONTEXTUAL
NUANCE**



3

**ALGORITHMIC
BIAS**



4

**PLATFORM
DEPENDENCE**





Is 23 minutes walking distance?: Factors determining walking time thresholds of Twitter users

[Hannah Hook](#)

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**FACTORS DETERMINING
WALKING TIME THRESHOLDS
OF TWITTER USERS**



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**SOCIAL AND ECONOMIC
GEOGRAPHY GROUP**
Department of Geography

