CHI 2018, Montreal, Workshop on Designing interfaces for an aging population

mapping auditory percepts into visual interfaces for hearing impaired users

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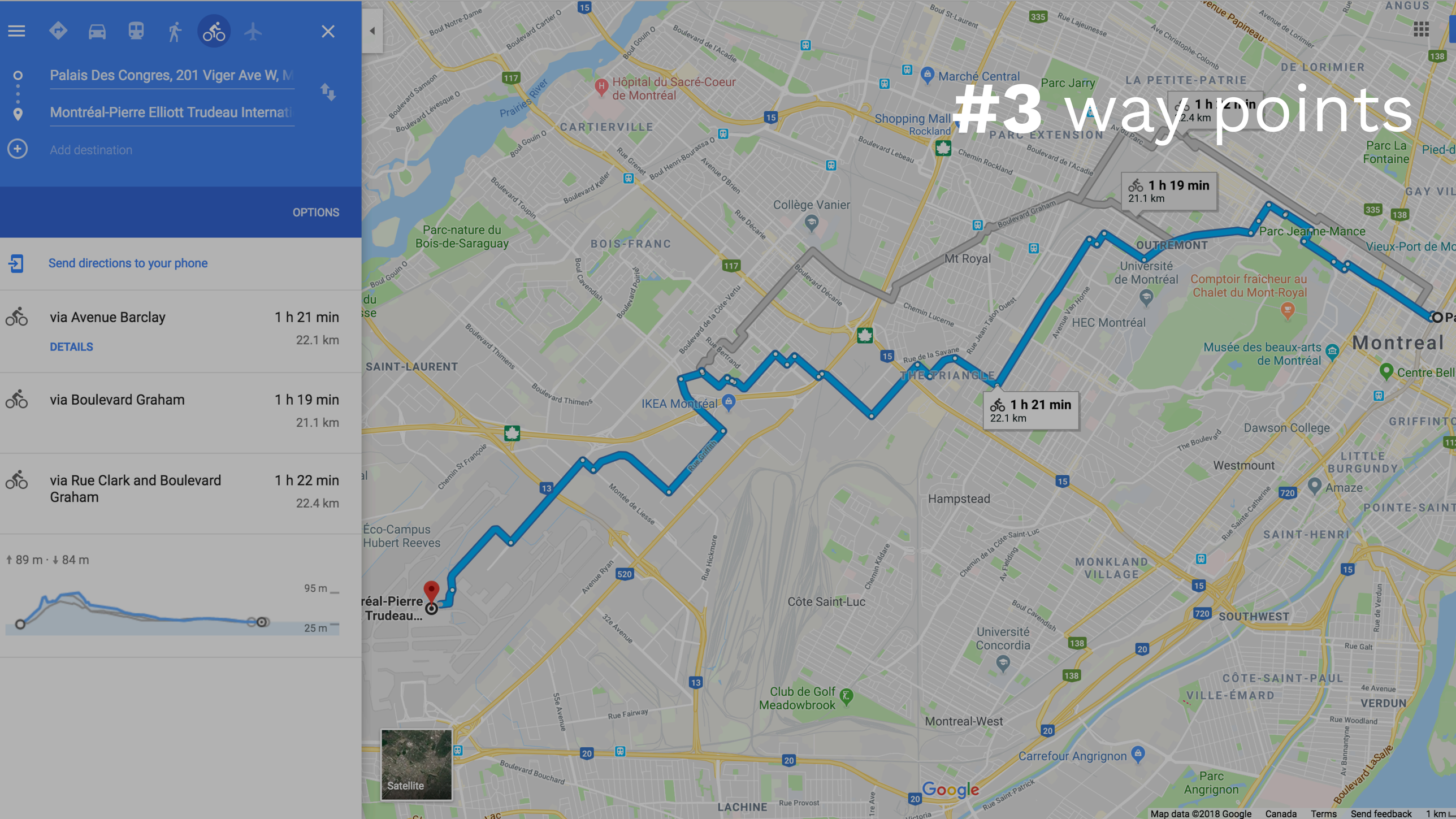
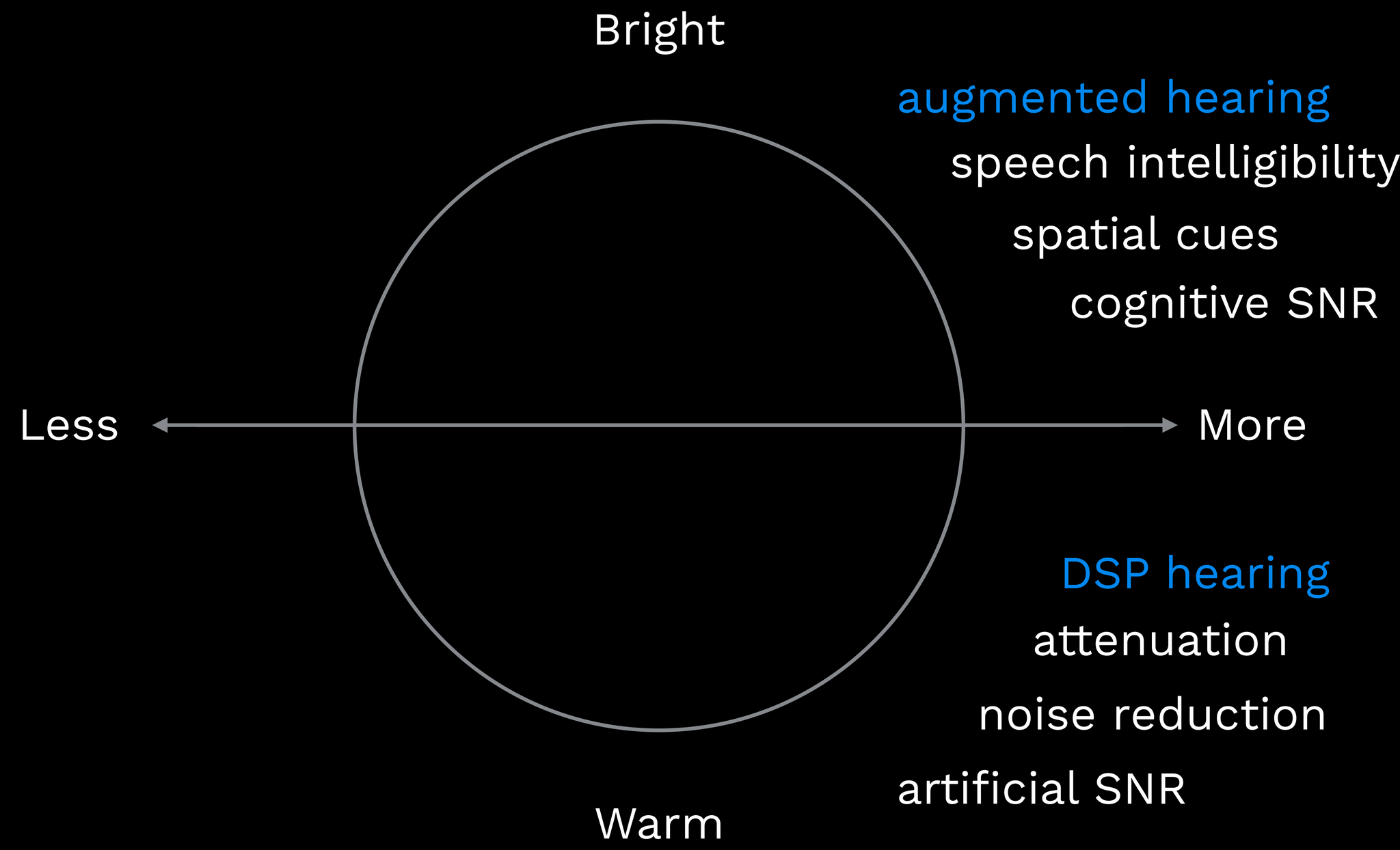
how do we map from auditory interfaces
to
visual interfaces for hearing impaired users?

#1 map metaphor

#2 visual metaphors


#3 waypoints
Palais Des Congres, 201 Viger Ave W, M
Montréal-Pierre Elliott Trudeau Internati
Add destination
OPTIONS
Send directions to your phone
via Avenue Barclay
1 h 21 min
22.1 km
DETAILS
via Boulevard Graham
1 h 19 min
21.1 km
via Rue Clark and Boulevard Graham
1 h 22 min
22.4 km
89 m · 84 m
95 m
25 m
1 h 19 min
21.1 km
1 h 21 min
22.1 km
Satellite
Google
Map data ©2018 Google
Canada
Terms
Send feedback
1 km

#4 decoding intents & behavior


Bright
augmented hearing
speech intelligibility
spatial cues
cognitive SNR
Less
More
DSP hearing
attenuation
noise reduction
artificial SNR
Warm

Thank you

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