

## Project ES/K001477/1 THE HEARING BODY: How auditory perception influences body representation

This file contains descriptions of the 81 variables in the archived CSV file: TajaduraJimenez\_NordiCHldata\_2014.csv. These variables correspond to the results reported in the following paper:

Tajadura-Jiménez, A., Liu, B., Berthouze, N., Bevilacqua, F. (2014) Using sound in multi-touch interfaces to change materiality and touch behavior. Proceedings of the 8th Nordic Conference on Human-Computer Interaction: Fun, Fast, Foundational, Pages 199-202, ACM.

### Variable descriptions:

Variable name	Type	Label	Values
Age	Number	Participant age	19 to 35
Gender	String	Participant gender	Female or Male
ArmLength_cm	Number	Participant arm length in cm	63 to 82
S1_LF_Rough	Number	Self-reported perceived roughness of the surface touched during exposure to S1 LF condition	7-point scale (1 to 7)
S1_LF_Hard	Number	Self-reported perceived hardness of the surface touched during exposure to S1 LF condition	7-point scale (1 to 7)
S1_LF_Cold	Number	Self-reported surface coldness felt during exposure to S1 LF condition	7-point scale (1 to 7)
S1_LF_Paper	Number	Self-reported likeness that the surface touched during exposure to S1 LF condition was paper	7-point scale (1 to 7)
S1_LF_Metal	Number	Self-reported likeness that the surface touched during exposure to S1 LF condition was metal	7-point scale (1 to 7)
S1_LF_Textile	Number	Self-reported likeness that the surface touched during exposure to S1 LF condition was textile	7-point scale (1 to 7)
S1_LF_Sandpaper	Number	Self-reported likeness that the surface touched during exposure to S1 LF condition was sandpaper	7-point scale (1 to 7)
S1_LF_Glass	Number	Self-reported likeness that the surface touched during exposure to S1 LF condition was glass	7-point scale (1 to 7)
S1_LF_Wood	Number	Self-reported likeness that the surface touched during exposure to S1 LF condition was wood	7-point scale (1 to 7)

S1_LF_Foam	Number	Self-reported likeness that the surface touched during exposure to S1 LF condition was foam	7-point scale (1 to 7)
S1_LF_Cardboard	Number	Self-reported likeness that the surface touched during exposure to S1 LF condition was cardboard	7-point scale (1 to 7)
S1_MF_Rough	Number	Self-reported perceived roughness of the surface touched during exposure to S1 MF condition	7-point scale (1 to 7)
S1_MF_Hard	Number	Self-reported perceived hardness of the surface touched during exposure to S1 MF condition	7-point scale (1 to 7)
S1_MF_Cold	Number	Self-reported surface coldness felt during exposure to S1 MF condition	7-point scale (1 to 7)
S1_MF_Paper	Number	Self-reported likeness that the surface touched during exposure to S1 MF condition was paper	7-point scale (1 to 7)
S1_MF_Metal	Number	Self-reported likeness that the surface touched during exposure to S1 MF condition was metal	7-point scale (1 to 7)
S1_MF_Textile	Number	Self-reported likeness that the surface touched during exposure to S1 MF condition was textile	7-point scale (1 to 7)
S1_MF_Sandpaper	Number	Self-reported likeness that the surface touched during exposure to S1 MF condition was sandpaper	7-point scale (1 to 7)
S1_MF_Glass	Number	Self-reported likeness that the surface touched during exposure to S1 MF condition was glass	7-point scale (1 to 7)
S1_MF_Wood	Number	Self-reported likeness that the surface touched during exposure to S1 MF condition was wood	7-point scale (1 to 7)
S1_MF_Foam	Number	Self-reported likeness that the surface touched during exposure to S1 MF condition was foam	7-point scale (1 to 7)
S1_MF_Cardboard	Number	Self-reported likeness that the surface touched during exposure to S1 MF condition was cardboard	7-point scale (1 to 7)
S1_HF_Rough	Number	Self-reported perceived roughness of the surface touched during exposure to S1 HF condition	7-point scale (1 to 7)
S1_HF_Hard	Number	Self-reported perceived hardness of the surface touched during exposure to S1 HF condition	7-point scale (1 to 7)
S1_HF_Cold	Number	Self-reported surface coldness felt during exposure to S1 HF condition	7-point scale (1 to 7)
S1_HF_Paper	Number	Self-reported likeness that the surface touched during exposure to S1 HF condition was paper	7-point scale (1 to 7)
S1_HF_Metal	Number	Self-reported likeness that the surface touched during exposure to S1 HF condition was metal	7-point scale (1 to 7)
S1_HF_Textile	Number	Self-reported likeness that the surface touched during exposure to S1 HF condition was textile	7-point scale (1 to 7)

S1_HF_Sandpaper	Number	Self-reported likeness that the surface touched during exposure to S1 HF condition was sandpaper	7-point scale (1 to 7)
S1_HF_Glass	Number	Self-reported likeness that the surface touched during exposure to S1 HF condition was glass	7-point scale (1 to 7)
S1_HF_Wood	Number	Self-reported likeness that the surface touched during exposure to S1 HF condition was wood	7-point scale (1 to 7)
S1_HF_Foam	Number	Self-reported likeness that the surface touched during exposure to S1 HF condition was foam	7-point scale (1 to 7)
S1_HF_Cardboard	Number	Self-reported likeness that the surface touched during exposure to S1 HF condition was cardboard	7-point scale (1 to 7)
S2_LF_Rough	Number	Self-reported perceived roughness of the surface touched during exposure to S2 LF condition	7-point scale (1 to 7)
S2_LF_Hard	Number	Self-reported perceived hardness of the surface touched during exposure to S2 LF condition	7-point scale (1 to 7)
S2_LF_Cold	Number	Self-reported surface coldness felt during exposure to S2 LF condition	7-point scale (1 to 7)
S2_LF_Paper	Number	Self-reported likeness that the surface touched during exposure to S2 LF condition was paper	7-point scale (1 to 7)
S2_LF_Metal	Number	Self-reported likeness that the surface touched during exposure to S2 LF condition was metal	7-point scale (1 to 7)
S2_LF_Textile	Number	Self-reported likeness that the surface touched during exposure to S2 LF condition was textile	7-point scale (1 to 7)
S2_LF_Sandpaper	Number	Self-reported likeness that the surface touched during exposure to S2 LF condition was sandpaper	7-point scale (1 to 7)
S2_LF_Glass	Number	Self-reported likeness that the surface touched during exposure to S2 LF condition was glass	7-point scale (1 to 7)
S2_LF_Wood	Number	Self-reported likeness that the surface touched during exposure to S2 LF condition was wood	7-point scale (1 to 7)
S2_LF_Foam	Number	Self-reported likeness that the surface touched during exposure to S2 LF condition was foam	7-point scale (1 to 7)
S2_LF_Cardboard	Number	Self-reported likeness that the surface touched during exposure to S2 LF condition was cardboard	7-point scale (1 to 7)
S2_MF_Rough	Number	Self-reported perceived roughness of the surface touched during exposure to S2 MF condition	7-point scale (1 to 7)
S2_MF_Hard	Number	Self-reported perceived hardness of the surface touched during exposure to S2 MF condition	7-point scale (1 to 7)
S2_MF_Cold	Number	Self-reported surface coldness felt during exposure to S2 MF condition	7-point scale (1 to 7)

S2_MF_Paper	Number	Self-reported likeness that the surface touched during exposure to S2 MF condition was paper	7-point scale (1 to 7)
S2_MF_Metal	Number	Self-reported likeness that the surface touched during exposure to S2 MF condition was metal	7-point scale (1 to 7)
S2_MF_Textile	Number	Self-reported likeness that the surface touched during exposure to S2 MF condition was textile	7-point scale (1 to 7)
S2_MF_Sandpaper	Number	Self-reported likeness that the surface touched during exposure to S2 MF condition was sandpaper	7-point scale (1 to 7)
S2_MF_Glass	Number	Self-reported likeness that the surface touched during exposure to S2 MF condition was glass	7-point scale (1 to 7)
S2_MF_Wood	Number	Self-reported likeness that the surface touched during exposure to S2 MF condition was wood	7-point scale (1 to 7)
S2_MF_Foam	Number	Self-reported likeness that the surface touched during exposure to S2 MF condition was foam	7-point scale (1 to 7)
S2_MF_Cardboard	Number	Self-reported likeness that the surface touched during exposure to S2 MF condition was cardboard	7-point scale (1 to 7)
S2_HF_Rough	Number	Self-reported perceived roughness of the surface touched during exposure to S2 HF condition	7-point scale (1 to 7)
S2_HF_Hard	Number	Self-reported perceived hardness of the surface touched during exposure to S2 HF condition	7-point scale (1 to 7)
S2_HF_Cold	Number	Self-reported surface coldness felt during exposure to S2 HF condition	7-point scale (1 to 7)
S2_HF_Paper	Number	Self-reported likeness that the surface touched during exposure to S2 HF condition was paper	7-point scale (1 to 7)
S2_HF_Metal	Number	Self-reported likeness that the surface touched during exposure to S2 HF condition was metal	7-point scale (1 to 7)
S2_HF_Textile	Number	Self-reported likeness that the surface touched during exposure to S2 HF condition was textile	7-point scale (1 to 7)
S2_HF_Sandpaper	Number	Self-reported likeness that the surface touched during exposure to S2 HF condition was sandpaper	7-point scale (1 to 7)
S2_HF_Glass	Number	Self-reported likeness that the surface touched during exposure to S2 HF condition was glass	7-point scale (1 to 7)
S2_HF_Wood	Number	Self-reported likeness that the surface touched during exposure to S2 HF condition was wood	7-point scale (1 to 7)
S2_HF_Foam	Number	Self-reported likeness that the surface touched during exposure to S2 HF condition was foam	7-point scale (1 to 7)
S2_HF_Cardboard	Number	Self-reported likeness that the surface touched during exposure to S2 HF condition was cardboard	7-point scale (1 to 7)

Pressure_LOGscore_S1_LF	Number	Finger pressure applied when touching the surface during S1 LF condition	logarithmic scale
Pressure_LOGscore_S1_MF	Number	Finger pressure applied when touching the surface during S1 MF condition	logarithmic scale
Pressure_LOGscore_S1_HF	Number	Finger pressure applied when touching the surface during S1 HF condition	logarithmic scale
Pressure_LOGscore_S2_LF	Number	Finger pressure applied when touching the surface during S2 LF condition	logarithmic scale
Pressure_LOGscore_S2_MF	Number	Finger pressure applied when touching the surface during S2 MF condition	logarithmic scale
Pressure_LOGscore_S2_HF	Number	Finger pressure applied when touching the surface during S2 HF condition	logarithmic scale
Velocity_LOGscore_S1_LF	Number	Finger velocity when touching the surface during S1 LF condition	logarithmic scale
Velocity_LOGscore_S1_MF	Number	Finger velocity when touching the surface during S1 MF condition	logarithmic scale
Velocity_LOGscore_S1_HF	Number	Finger velocity when touching the surface during S1 HF condition	logarithmic scale
Velocity_LOGscore_S2_LF	Number	Finger velocity when touching the surface during S2 LF condition	logarithmic scale
Velocity_LOGscore_S2_MF	Number	Finger velocity when touching the surface during S2 MF condition	logarithmic scale
Velocity_LOGscore_S2_HF	Number	Finger velocity when touching the surface during S2 HF condition	logarithmic scale