

This file includes additional material for the article “Content-based clustering of hallucinations across sensory modalities in a large online survey” by Marschall et al.

Modality	Label	Description
AH	alarm	Does the participant hear alarm clocks or other alarms?
AH	animals	Does the participant hear animal sounds?
AH	children	Does the participant hear sounds that come from children
AH	doorbell	Does the participant hear the doorbell?
AH	footsteps	Does the participant hear ambient noises in or around the house?
AH	grief	Is the perceived sound linked to mourning/deceased acquaintances?
AH	laughter	Does the participant hear laughter, sighs, coughs or howls?
AH	music	Does the participant hear music?
AH	name	Does the participant hear their name?
AH	non-specific	Does the participant hear an indescribable or unspecified sound?
AH	not further specified	Does the participant not provide further information about the sound heard?
AH	other	Are there any other topics that the participant indicates to hear that have not yet been accommodated in other variables?
AH	phone	Does the participant hear on the phone?
AH	presence	Does the participant indicate a sense of presence?
AH	radio/TV	Does the participant hear the radio or TV?
AH	siren	Does the participant hear a siren wailing?
AH	talking	Does the participant hear voices?
AH	talking: acquaintances	Does the participant hear acquaintances talk?
AH	talking: call	Does the participant hear yelling or calling?
AH	talking: noise/murmuring	Does the participant hear buzzing, mumbling, gibberish or unintelligible language?
AH	talking: not further specified	Does the participant indicate simply hearing 'talk', 'talking', 'a voice' or 'voices'?
AH	talking: other	Are there any other topics that the participant indicates to hear that have not yet been accommodated in other variables?
AH	talking: scream	Does the participant hear screams or shrieks?
AH	talking: sentences	Does the participant hear full sentences, dialogues, commands or conversations?
AH	talking: whisper	Does the participant indicate hearing whispers?
AH	talking: word	Does the participant hear one or a few single words?
AH	tinnitus	Does the participant hear a buzzing, buzzing or beeping sound?
AH	vehicles	Does the participant hear vehicles or devices?
OH	associative	Does the smell arise from an association? (e.g. TV, thought, or other context)
OH	cigarettes	Does the participant smell cigarette or cigarette smoke?
OH	decaying	Does the participant smell a dead, decomposing or rotting odor?
OH	fire	Does the participant smell a burning smell or fire?
OH	flowers	Does the participant smell flowers or a floral scent?
OH	food	Does the participant smell food, drink or spices?
OH	foul: not further specified	Does the participant smell a foul odor? (without further description)
OH	foul: specific	Does the participant smell other foul odors than the above (urine, sweat, garbage, rotting, musty)?
OH	garbage	Does the participant smell waste or garbage?
OH	gas	Does the participant smell gas?
OH	grief	Is the perceived smell linked to grief/deceased acquaintances?
OH	indescribable	Does the participant smell an indescribable odor?
OH	nonspecific	Does the participant smell an unspecified odor?
OH	not further specified	Does the participant not provide any information about the perceived odor?
OH	other	Are there any other topics that the participant indicates to smell that have not yet been accommodated in other variables?
OH	perfume	Does the participant smell perfume or perfumed odors?
OH	reminicent smell	Does the participant smell a (specific or not) nostalgic or recognizable odor?
OH	smoke	Does the participant smell smoke?

OH	stale	Does the participant smell a musty smell?
OH	sweat	Does the participant smell sweat?
OH	sweet	Does the participant smell an unspecified 'sweet', 'pleasant' or 'delicious' smell?
OH	urine/faeces	Does the participant smell urine or feces?
TH	associative	Does the feeling arises from an association? (e.g. bugs, TV, other context)
TH	cold	Does the participant feel cold?
TH	grief	Is the perceived feeling linked to grief/deceased acquaintances?
TH	heat	Does the participant feel warmth?
TH	insects/critters	Does the participant feel insects in or on the body?
TH	non-specific	Does the participant experience an indescribable or unspecified feeling?
TH	not further specified	Does the participant not provide further information about the perceived feeling?
TH	other	Are there any other topics that the participant indicates to feel that have not yet been accommodated in other variables?
TH	phone	Does the participant feel a vibrating phone?
TH	physiological	Does the participant feel physiological phenomena (itching, goosebumps, shivering)?
TH	presence	Does the participant indicate a sense of presence?
TH	pressure: not further specified	Does the participant feel pressure?
TH	pressure: people	Does the participant feel pressure that comes from a human being?
TH	tingling: insects	Does the participant feel tingling or tingling that comes from bugs?
TH	tingling: not further specified	Does the participant feel tingling or tingling without further explanation?
TH	tingling: other	Does the participant feel tingling or tingling?
TH	touch	Does the participant feel a touch?
TH	water	Does the participant feel water (wet spots, drops, running water)?
TH	wind	Does the participant feel blowing air, wind or breath?
VH	animal	Does the participant see an animal or animal shape?
VH	colour	Does the participant see spots or colours?
VH	grief	Is the perceived image linked to mourning/deceased acquaintances?
VH	human	Does the participant see a person or human form (person, figure, shape)?
VH	movement	Does the participant see a moving image?
VH	non-specific	Does the participant see an indescribable or unspecified image?
VH	not further specified	Does the participant not provide further information about the observed image?
VH	object	Does the participant see an inanimate object?
VH	other	Are there any other topics that the participant indicates to see that have not yet been accommodated in other variables?
VH	pattern	Does the participant see shapes or patterns?
VH	presence	Does the participant indicate a sense of presence?
VH	shadow-like figure: animal	Does the participant see a shadowlike figure or shadow in the shape of an animal?
VH	shadow-like figure: human	Does the participant see a shadowlike figure or shadow in the shape of a human?
VH	shadow-like figure: not further specified	Does the participant see a shadowlike figure or shadow without further explanation?
VH	shadow-like figure: other	Does the participant see a shadowlike figure or shadow?
VH	simple	Does the participant see simple images, such as flashes of light?
VH	situation	Does the participant see an entire scenes/situation?