1 Intro

Welcome to this online survey!

Before starting with the questionnaire, please read this introduction carefully!

This survey is part of a joint project between Marianna Obrist of the Culture Lab at the Newcastle University, United Kingdom and Alexandre Tuch of the Computer Science Department at the University of Copenhagen, Denmark. We are interested in studying people's experiences of everyday life situations that involve smell (odor).

At the beginning of this survey we will ask you to recall and report a personal experience that involves smell. This experience will be the focus of the rest of the questionnaire. We will ask you questions about different aspects of this experience. These questions are organized in four parts:

- (1) the context in which your experience took place,
- (2) the characteristics of the smell itself,
- (3) evaluate your experience as a whole,
- (4) your thoughts on future "smell technologies"

In a final part we conclude with some questions on demographics and cultural background.

We expect that it will take about 20 minutes to complete the questionnaire.

Please note that this is an anonymous survey. Your answers will be analyzed and reported anonymously.

Finally, we would like to ask you to be focused and attentive during this survey. Your answers will be assessed at the end to determine the validity of your response. Only consistent and valid answers will result in a completion code.

Thank you very much in advance!

1.1 Mindset

An exercise to start with



As you know this survey is about smell experiences. We would like you to start with an exercise.

Please think 1-2 minutes about particular moments of memorable smell experiences in your life.

Think about moments where smell played an important role, positive or negative (e.g., walking into a bakery, entering a hospital, tasting a spicy soup, trying out a new perfume, unpacking a new mobile phone, and so on)?

Try to mentally relive this moments when you perceive the smell. What did you feel, think, or do? Visualise the situation and the circumstances of this particular moment of a smell experience.

When you feel ready to proceed, please click on the "continue button".

2 Trigger

An experience involving smell

Bring to your mind one particular memorable moment of a personal smell experience. The experience can be negative or positive.

Please try to describe this particular smell experience in as much detail as possible. You can use as many sentences as you like, so we can easily understand why this moment is a memorable experience involving smell for you.

2.1 Trigger2

Title of your experience

If you have to give your experience a title, what would it be? Please write the imagined title for your experience in the text box below.

(1)

How would you evaluate your experience in general?

In general, I think that my experience was...

not nositive at all			very nositive

(3)

(4)

(5)

(2)

not positive at an	\sim	\sim		\sim	\sim	\sim	very positive	
not negative at all	0	0		0	0	0	very negative	
not personally relevant at all	0	0		0	0	0	very personally relvant	
3 Context_Social								
Part 1 Questions on the context wit	hin you	ır exper	ience	took p	lace			
Who was present when you had this ex	erience?							
Nobody								
A partner / friend / family member Several friends / family members / acquaints	ances							
O A stranger								
A group of strangers								
Others:								
4 Context_Place								
Where were you when you had this exp	erience?							
O In my own home								
In the home of friends or acquaintancesAt work								
O In a public building or in a stranger's home								
In the street or another public space In a natural setting								
O Some other place								
Please specify the location.								
Some examples: [In a public building or in a stranger's hom	e] -> <i>Airp</i>	ort in New L	Delhi, In	dia, in the	arrival h	all or New)	York city, shopping mall at the food co	urt
[In a natural setting] -> On the top of the	rocky mou	ıntains or At	the bea	ach in sout	hern Italy	, near to Ba	ari	
[In the street or another public space] -> I	n a comm	uter bus in :	San Frai	ncisco or A	t the Con	nmunity Far	mers' Market in Michigan	
					1			
5 Time								
How long ago did this experience occur Please specify the time unit with the "drop		' and enter t	he time	period in	the text f	ield.		
Please selec								
The experience occured day(s) week(s) month(s) year(s)		ago.						
6 Odor_PleIntFam								
Part 2 Questions on the characteris	tics of	the smo	II itea	\lf				
	tics of	the sine	11 1636					
How pleasant was the smell? Try to remember how pleasant the smell in	nvolved in	vour experi	ence wa	as and rate	it on the	given scale	a.	
.,	(1)	(2)	(3)	(4)	(5)	. g	I do not	
	` ,	()	(-)	()	(-)		remember	
Not pleasant at all	0	0	0	0	0	Very pleasant	0	
How intense was the smell? Try to remember how intense the smell inv	olved in v	our evnerie	nce was	and rate i	t on the	given scale		
Try to remember now meetise the sinen in	(1)	(2)	(3)	(4)	(5)	given scare.	I do not	
			(5)	(-)	(5)		remember	
NI - L								
Not intense at all	0	0	0	0	0	Very intense	0	
intense at all			0	0	0		0	
intense at all How familiar was the smell?	0	0				intense		
intense at all	O volved in	O your experie	ence wa	s and rate	it on the	intense	I do not	
intense at all How familiar was the smell?	0	0				intense		

at all Odor_affect How would you describe the smell in your experience? Which of the following terms describe the characteristics of the smell you experienced best? You can select as many as make sense to you. sophisticated pure unpleasantly surprised pleasant subtle attractive invigorating sickening beneficial voluptuous healthy dissatisfying carnal animal tonic imitated delicate unpleasant mouthwatering angry discrete foul childish relaxed distinguished sweet soothed heavy soft well being nauseous serene penetrating pleasantly surprised reinsured elegant erotic stinkv happiness revitalized feminine dirty attracted refreshed persistent harmonious feeling awe stimulated light dynamic desirable energetic refined reassuring spring nostalgic like admirable amusing romantic seducina excited salivating clean disaustina sensual Are there any other terms that describe the characteristics of the smell? Overall_affect Part 3 Some questions on the experience as a whole Feelings during the experience Try to remember how you felt during the experience. Which of the following words describe best how you felt during the experience? Please tick the corresponding adjectives. You can select as many as make sense to you. During this experience I felt... melancholic distressed at ease delighted satisfied dejected convinced angry light-hearted enthusiastic languid serene impressed aroused excited amused sleepy sad despondent serious anxious indignant attentive tense interested miserable embarrassed droopy passionate hateful solemn longing contemptuous uncomfortable glad content feel well calm reverent gloomy pleased ambitious polite frustrated determined contemplative loathing annoved

Are there any other words that describe how you felt during the experience?

alarmed

conceited

joyous

depressed

insecure

pensive

startled

friendly

hostile

wavering

bored

taken aback

envious

afraid

hopeful

conscientious

insulted

disgusted

doubtful

defiant

jealous

confident

bellicose

enraged

apathetic

elated

worried

tired

courageous

discontented

astonished

triumphant

adventurous

amorous

suspicious

ashamed

distrustful

disappointed

self-confident

happy

feeling superior

impatient

hesitant

lusting

desperate

feel guilt

dissatisfied

relaxed

	•		,				
					6		
9 (Overall_attrakdiff						
	eral characteristics of	-		scribe you	r experience best . You can	select :	as many as make sense to
The	experience was						
	isolating		gaudy		non-inclusive		clear
	integrating		classy		inclusive		unpresentable
	typical		cautious		lame		presentable
	original		courageous		exciting		commonplace
	technical		impractical		unpredictable		new
	human		practical		predictable		unruly
	amateurish		cheap		taking me distant from people		manageable
	professional		valuable		bringing me closer to people		ugly
	standard		conservative		easy		beautiful
	creative		innovative		challenging		bad
	complicated		cumbersome		confusing		good
	simple		direct				
10	Technology_1						
Par		e smell te	chnologies				

Future technologies and smell

Currently, there are some first attempts and efforts to combine smell and technology. Such smell technologies aim to enhance everyday life experiences and the way we are interacting with technology/products.

Below you find six examples of such smell-enhanced technologies and visions for future technology to produce, capture, and identify all kinds of smells, tackling a wide variety of domains and interests.

Please read through the examples below and think of their differences and qualities.



(Photo by m4tik; symbolic picture)

Cinema technology

You take a seat. The lights go dark. Tony Stark struts across the screen. What's that smell? It's Eau de Iron Man! For Iron Man 3, smell-enhanced screenings started in Japan in April this year. Special effects in movies go beyond the stimulation of our eyes and ears and included also odor effects (Smell-O-Vision!). [link]

(Copyright by Jenny Tillotson)

Wearable technology

The Smart Second Skin Dress designed by Jennifer Tillotson interacts with its wearer's changing moods by releasing atomized bursts of fragrance in response to different emotional triggers. This scent dress is designed to promote relaxation, alleviate depression, boost self-esteem, or simply telegraph your amorous intensions. [link]

Ambient technology

The smelling screen invented by Haruka Matsukura at Tokyo University of Agriculture and Technology in Japan and colleagues, makes smells appear to come from the exact spot on any LCD screen that is displaying the image of a cup of coffee, for example. [link]

Mobile technology

Your mobile phone will get the sense of smell. Adamant Technologies, a small startup in San Francisco, is trying to give your phone or computer or other medical devices the ability to smell for themselves and for instance detect bad breath and other smells, which could be relevant for your health and wellbeing. [link]

Photography technology

Olfoto is an olfactory photo-tagging and searching application developed by Steve Brewster and colleagues at the University of Glasgow in Scotland UK. The researchers envisaged that smell-enhanced interfaces allow people to interact with their very large digital photograph collections with thousands of images. [link]



(Symbolic picture)



(Symbolic picture)



(Photo by rromer; symbolic picture)

Internet technology

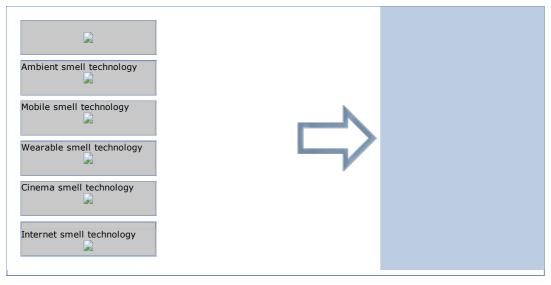


A technology that allows you to share smell sensations digitally with other people through the Internet. Such a technology may enable people to send and receive special smell experiences via the Internet. Personal experiences could be exchanged between each other – friends and family members spread around the world – in a more vivid way. [link]

11 Technology_2

Which smell technology do you like best?

Please order the five smell technologies by descending preference in the blue field to your right. You can do this by dragging and dropping the items with your mouse.



12 Technology_3

Future smell technology and your smell experience

We have shown you some examples of smell technologies, but many more will come and allow you to capture, search, identify smells, share smells, or change smell in different situations.

Please try to imagine how future smell technologies could be combined in a desirable way with the experience you reported in the beginning of this survey. Think back to your experience, and consider any desirable difference such technology could make. Please share your immediate thoughts by answering the following questions.

not?
ies would be interesting to enhance your everyday life experiences?

13 Demographics

Final part Questions on demographics & cultural background

How old are you?

I am years old.

Please indicate you gender										
0	Female									
0	Male									
0	I prefer not to answer									
Hov	w would you rate your	sensibility for	smell?							
Plea	ase rate your sensibility	for smell with	the given	scale.						
			(1)	(2)	(3)	(4)	(5)		I do not	
			()	()	(-)	. ,	(-)		know	
	_	Not	0	0	0	0	0	Very sensible	0	
	5	ensible at all						Selisible		
14	Cultural Backgrou	ınd								
Ple	ase indicate your ethni	city?								
0	White (non-Hispanic/Latino)	-								
0	White (Hispanic/Latino)									
0	American Indian and Alaska	a Native								
0	Asian									
0	Black or African American									
0	Native Hawaiian and Other	Pacific Islander								
0	Two or more races:									
0	Other:									
0	I prefer not to answer									
In	which country(ies) did	you grow up?								
You	can indicate one or mor	e countries.								
1.										
2.										
3.										
In which countries have you lived for a longer period of time (more than 6 months)?										
If there were more than five, please name these, which influenced you most.										
	iere were more than me	e, piease name	tilese, wi	ilicii iliilidei	nceu you nn	031.				
1.										
2.										
3.										
4.										
5.										
15	FollowUpAndCons	sent								
Co	nsent									
										umber). All data will be handled . This means that upon request
we	would share your anonyr	mized data wit	h academi	ic research	ners for non	-profit	research. T	o be able to de	o so, we need your conse	nt.
If y		our data avail	able to ac	cademic re	esearchers (in an e	nsured ano	nymized form) for non-profit purposes	then please tick the check box
	I hereby agree that my data will be made anonymously available to academic researchers for non-profit research.									
16	Control									
	rification questic				_					
	It is important for the verification of your responses and thus for the validity of the survey that you answer the following three questions correctly. Otherwise, we will not be able to give you a completion code.									

Please be aware that you only have two attempts to answer the questions correctly! Please read the questions and the answer options carefully before submitting your answers.

What is the main focus of this survey?

your earliest childhood memory where taste played an important role feelings associated with different kinds of different smells smell and cultural background

a memorable experience where technology played an important role

a memorable experience involving smell

questions about the characteristics of a smell questions about future smell technologies questions about your cultural background questions about your favorite smells questions about your feelings during a specific experience

Which of the following questions did occur in the survey?

How does your mobile phone smell? How old were you when the experience occurred? How did your experience affect your friends? Who was present when you had this experience? What is your favorite smell?

17.1 CompletionCode

Completion Code & Final Comment

Important! Please enter the following completion code at the HIT page to submit your answers and ensure payment.

Your code: 617169

Please copy this code or write it down.

Do you have any other comments?

If you have any comment regarding this survey, please tell us here.

/	į

17.2 ValidatedAnswer

End of the survey

Thank you for participating! Any questions regarding the survey can be sent to Marianna Obrist or Alexandre Tuch.

Important! Please enter the completion code at the HIT page to submit your answers and ensure payment. The completion code was provided on the previous page if you have answered the verification questions correctly.

If you are interested in the results and further information on the study, please feel free to contact us:

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You can close this window now.

18 WrongAnswer

Not all answers were correct!

We are sorry, but we are not able to provide you the completion code unless you answer all verification questions correctly.

Click the "continue" button to answer again the verification questions. Or click on the link below to quit the survey without getting a completion code.

Quit without completion code (no payment will be received)

19 EndWrongAnswer

No completion code

You failed twice to answer the verification questions correctly. We are sorry, but we cannot provide you the completion code.

To quit this survey you can click on the link below.

If you were unable to answer all questions correctly -- even though you filled in the survey attentively -- please contact Alexandre Tuch (shr297@diku.dk) and provide your answers to the verification question.

20 Endseite