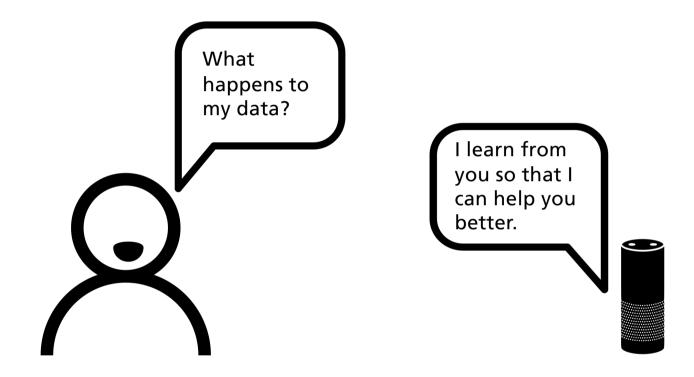
# **Conversational Privacy**

## What is conversational privacy?



Potential **USP**: Siri, Google and Alexa don't do conversational privacy well.

GDPR advises on **seamless** communication of privacy.

**User reactions** may provide insights into user experience and requirements for privacy and security.

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User	Siri				
Information What happens to my data?	I am sorry, I can't do that				
Opt-out I do not want you to process my data	<b>X</b> <sup>(2)</sup> OK.				
<b>Deletion</b> I want you to delete my data	I can't do that.				

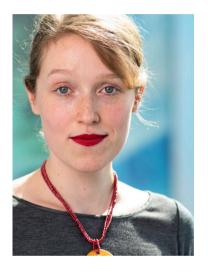
User	Google				
Information What happens to my data?	Here's the top search result: [showing web search results]				
<b>Opt-out</b> I do not want you to process my data	Here are some results: [showing web search results]				
<b>Deletion</b> I want you to delete my data	(3) Alright, here's the place where you can delete your assistant activity [Forwards user to settings were data can be deleted]				

User	Alexa				
Information What happens to my data?	I respond to you and learn from interactions, so that I can help you better.				
<b>Opt-out</b> I do not want you to process my data	I am not sure				
<b>Deletion</b> I want you to delete my data	I am not sure.				

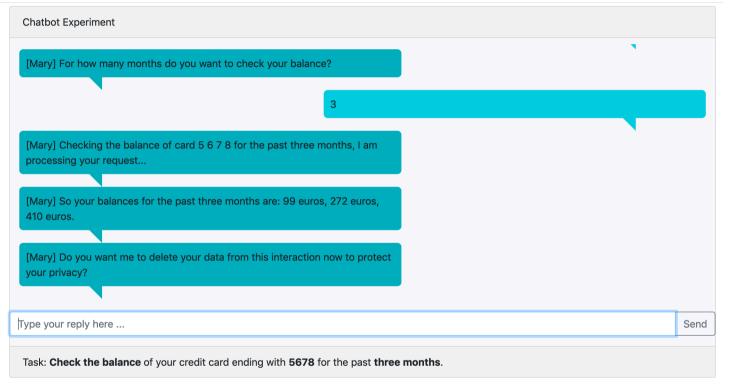
# **Researching** Conversational Privacy



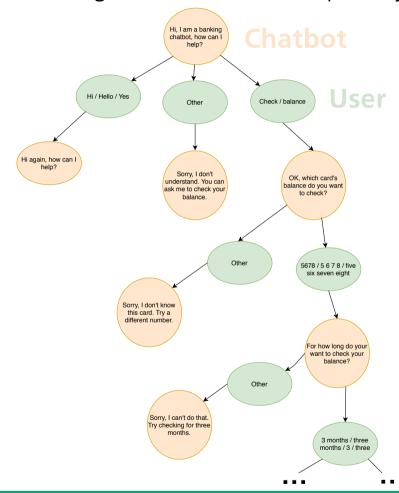
Philip Lalone

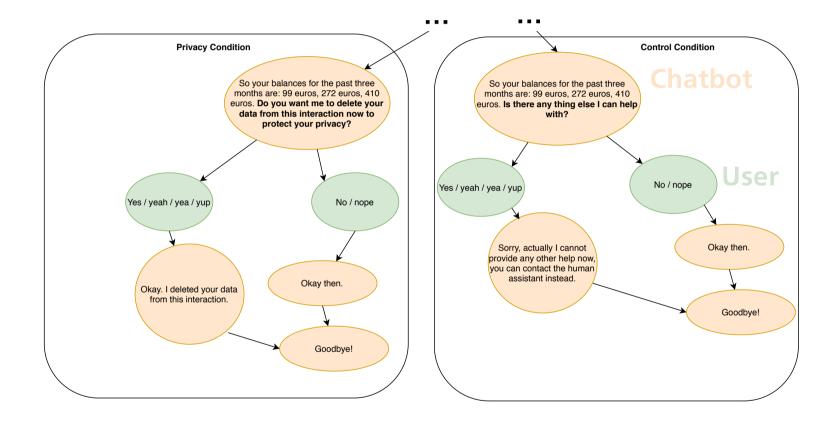


Birgit Brüggemeier









Please indicate how strongly you agree or disagree with following statements:										
	Disagree						Agree			
I think this chatbot has mechanisms to ensure the safe transmission of its users' information.	0	0	0	0	0	0	0			
I think this chatbot shows great concern for the security of any transactions.	0	0	0	0	0	0	0			
When I send data to this chatbot, I am sure that they will not be intercepted by unauthorised third parties.	0	0	0	0	0	0	0			
I think this chatbot has sufficient technical capacity to ensure that the data I send will not be intercepted by hackers.	0	0	0	0	0	0	0			
When I send data to this chatbot, I am sure they cannot be modified by a third party.	0	0	0	0	0	0	0			
I think this chatbot has sufficient technical capacity to ensure that the data I send cannot be modified by a third party.	0	0	0	0	0	0	0			
	Disagree						Agree			
I think this chatbot shows concern for the privacy of its users.	0	0	0	$\circ$	$\circ$	$\circ$	0			
I feel safe when I send personal information to this chatbot.	0	0	0	0	0	0	0			
I think this chatbot abides by personal data protection laws.	0	0	0	0	0	0	0			

#### What were my research questions?

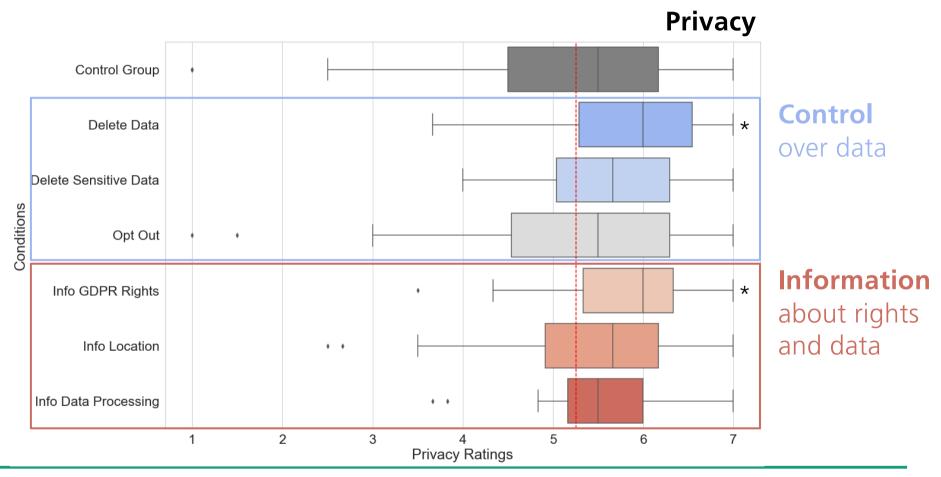
Does conversational privacy affect **user perceptions**?

Does conversational privacy affect **user choices**?

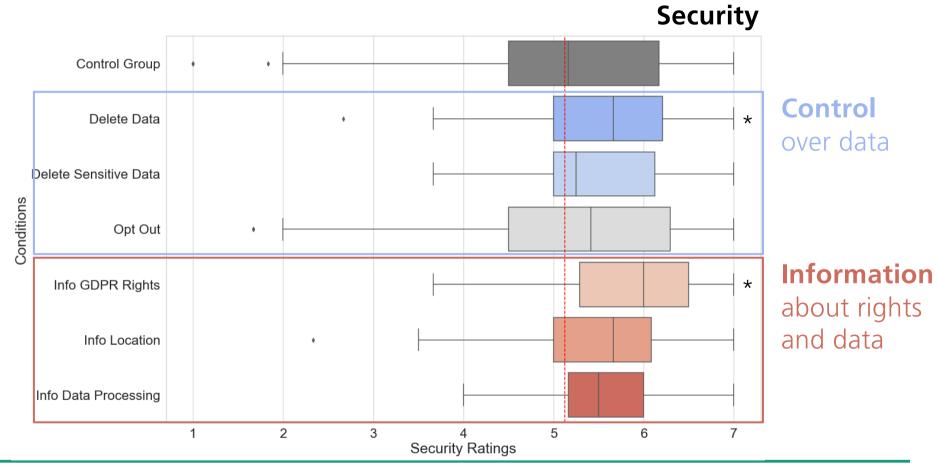
Are user perceptions affected by **privacy priming**?

Will be explained later on!

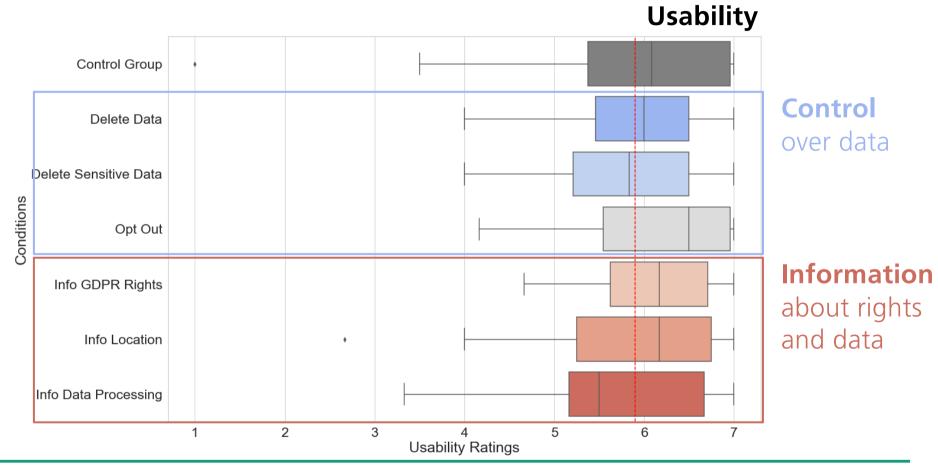
#### Does conversational privacy affect **user perceptions**?



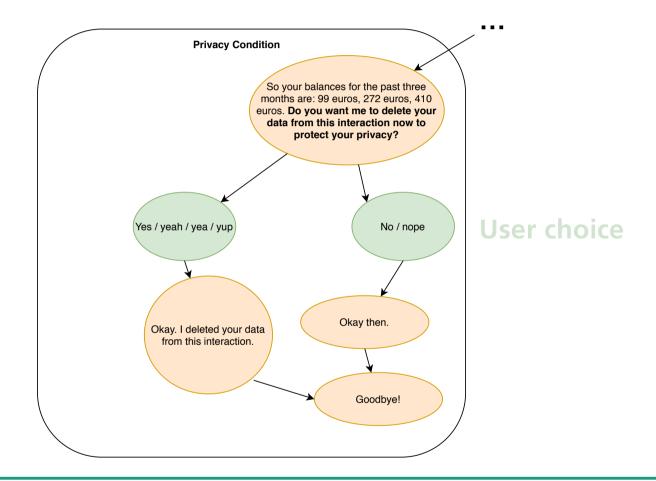
#### Does conversational privacy affect user perceptions?



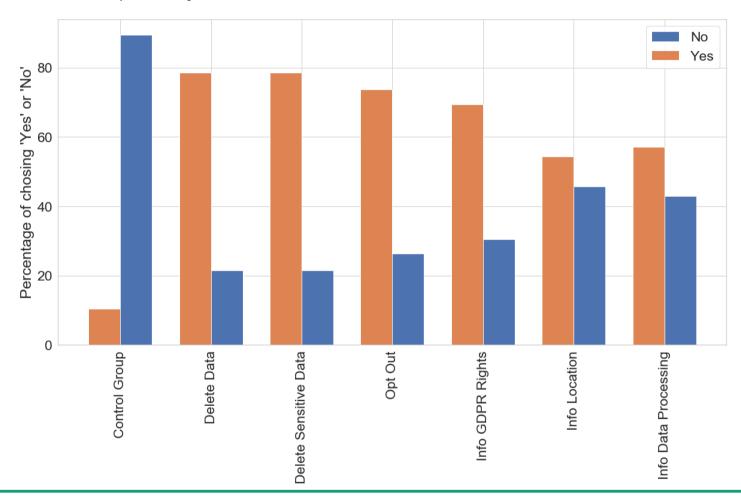
#### Does conversational privacy affect user perceptions?



#### Does conversational privacy affect user choices?



## Does conversational privacy affect user choices?

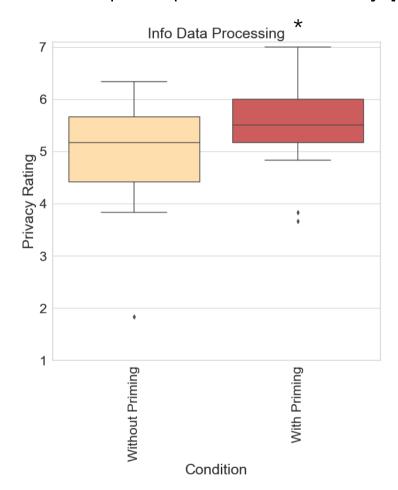


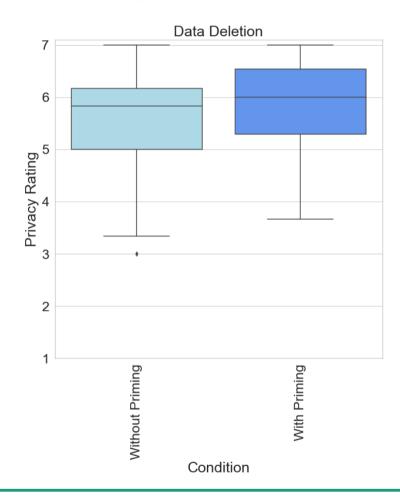
Do you want to know how your data is processed?

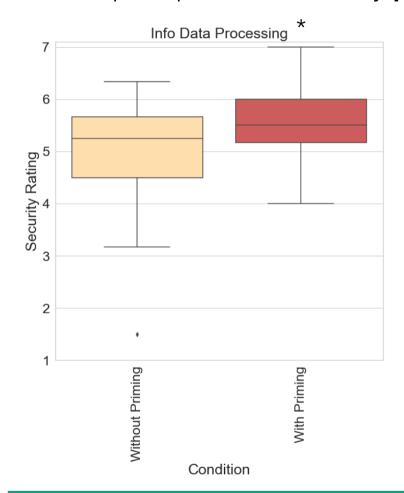
Do you want to know how your data is processed to be more informed about your data?

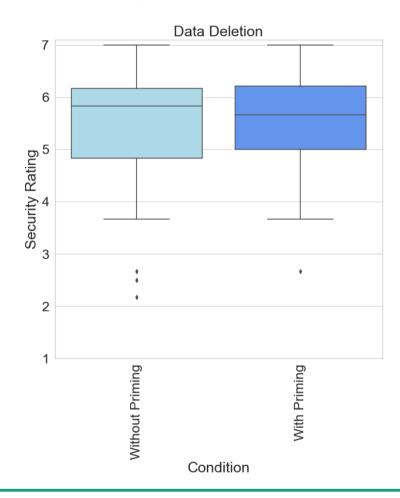
Do you want me to delete your data from this interaction now?

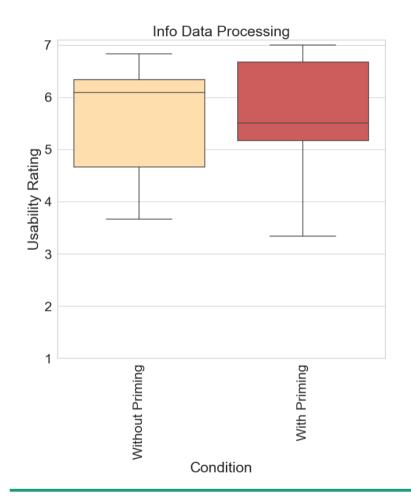
Do you want me to delete your data from this interaction now to protect your privacy?

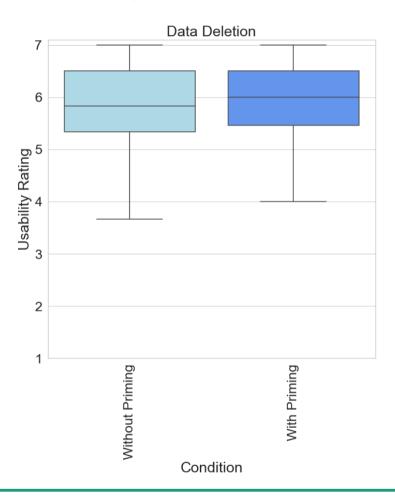










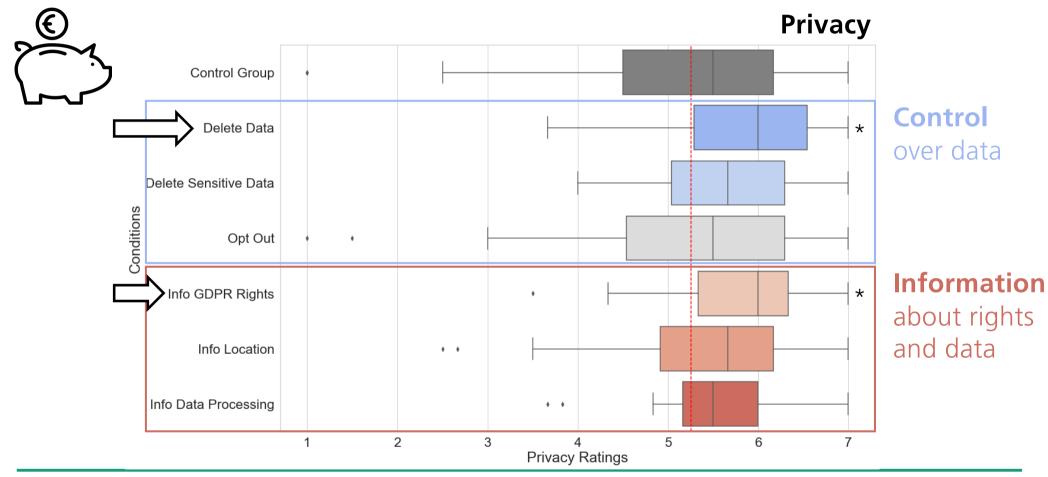






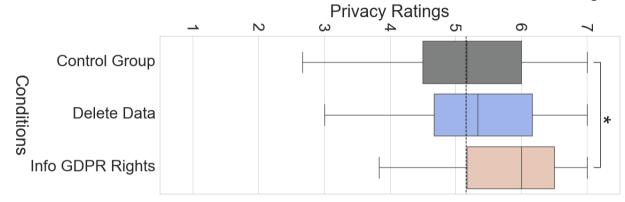




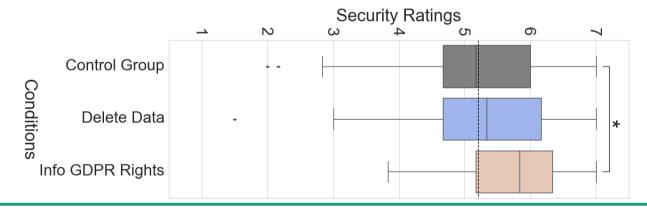


# TAX :≡::: \$=-

# Privacy

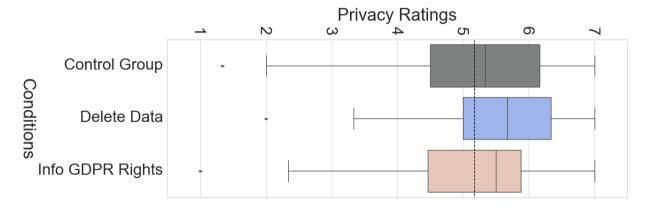


#### **Security**

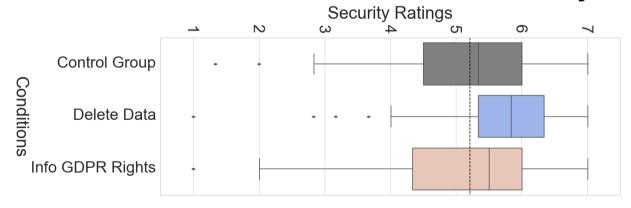


## **Privacy**





#### Security



Does conversational privacy affect **user perceptions**?

There is **no negative effect** of conversational transparency.

Some messages significantly improve privacy and security perceptions.

Does conversational privacy affect **user choices**?

Users are **more likely to accept** an offer of privacy control or information than a generic offer for help.

Are user perceptions affected by **privacy priming**?

There is **no negative effect** of privacy priming.

For some messages privacy priming may **significantly improve privacy and security perceptions**.

Are these results **use-case-dependent**?

Use-case-dependent differences in user perceptions exist.

**Some positive effects** of privacy and security perceptions **prevail** across use cases.

**User choices** are similar across use cases. Users prefer specific privacy control options and information to generic offers of help.

#### Limitations

Findings may be language-dependent.

Findings may be **interface**-dependent.

Findings may be **task**-dependent.

**Long-term use** was not investigated.

Users **do not have a real privacy stake** in the interaction data.

Thank you for your attention.