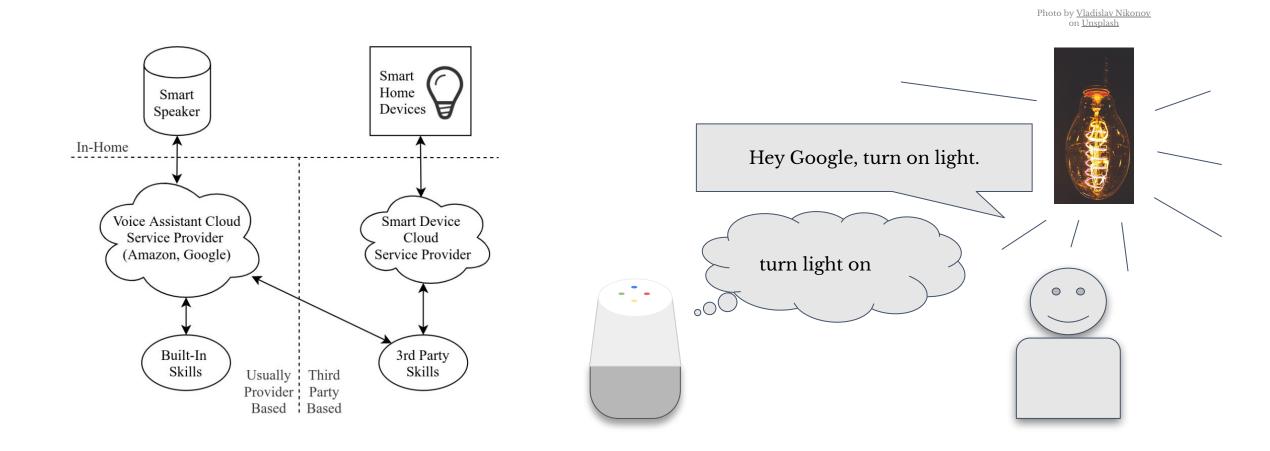
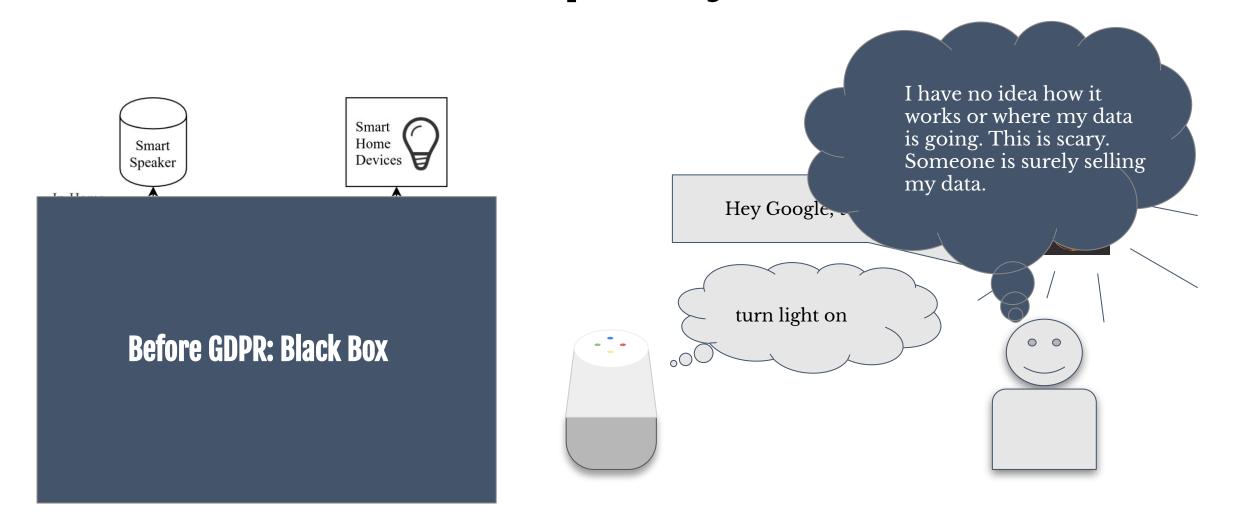
# Week 11: GDPR and HCI

Nicole Meng-Schneider

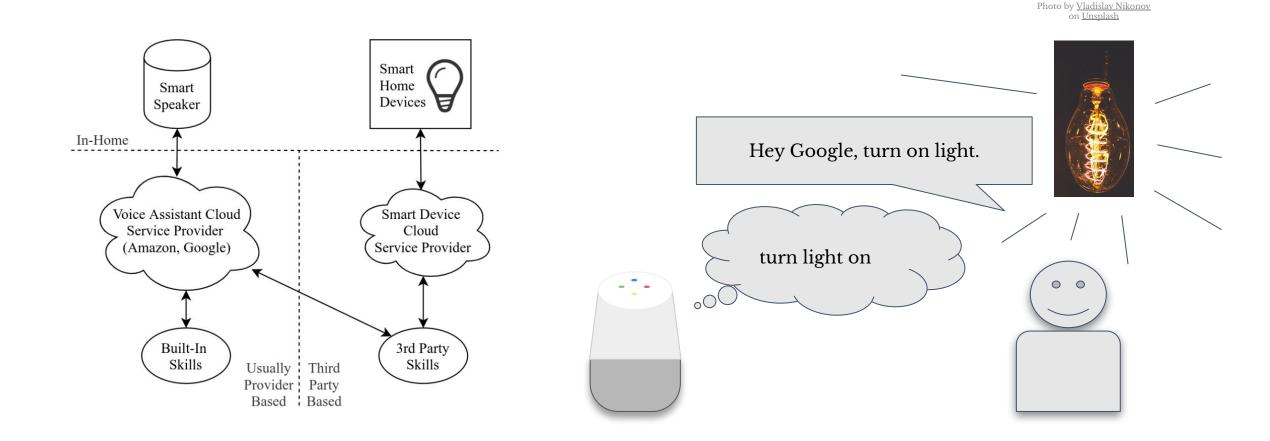
## **Remember how smart speakers work**



## **Before GDPR: Little transparency and control**



## **After GDPR: More Transparency and Control**



## What is GDPR?

General Data Protection Regulation (GDPR)

- In effect from May 2018
- Legal framework that governs data privacy and security across the EU and UK
  - i.e. how companies should collect, store, and handle our personal data
  - Applies to any organisation with ties to EU, even if based somewhere else
- Main Goal: Protect people's privacy by giving them more control
- Dictates:
  - Consent for data collection, handling and storage
  - Users should have control over their data
  - Data should be handled securely
  - Transparency of data use
  - What is personal data

# What is personal data?

#### GDPR Art.4 (1) - Definition of Personal Data

(1) 'personal data' means any information relating to an identified or identifiable natural person ('data subject'); an identifiable natural person is one who can be identified, directly or indirectly, in particular by reference to an identifier such as a name, an identification number, location data, an online identifier or to one or more factors specific to the physical, physiological, genetic, mental, economic, cultural or social identity of that natural person;

#### GDPR Art.9 - Sensitive Data (special category)

1. Processing of personal data revealing racial or ethnic origin, political opinions, religious or philosophical beliefs, or trade union membership, and the processing of genetic data, biometric data for the purpose of uniquely identifying a natural person, data concerning health or data concerning a natural person's sex life or sexual orientation shall be prohibited.

Full legal text: <u>https://gdpr-info.eu/</u>

- Strong Data Subject Rights
  - Right to erasure (Right to be forgotten)
  - Right of access
  - Right to rectification
  - And others

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  - Store only for as long as needed

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### • Consent

- When consent can be implied and when it has to be explicit
- Right to withdraw consent
- Freely given, Specific, Informed, Unambiguous

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- Responsibility
  - Dedicated Data Protection Officer to ensure compliance (large companies only)
  - Full legal text: <u>https://gdpr-info.eu/</u>

## Think Pair Share

### <u>What does GDPR mean for us as</u> <u>designers and developers?</u>

Think for 1 min Pair for 3 min Share for 5 min

**GDPR** Principles

- Strong Data Subject Rights
- Data Minimisation
- Consent
- Transparency
- Security measures
- Responsibility

## A good designer

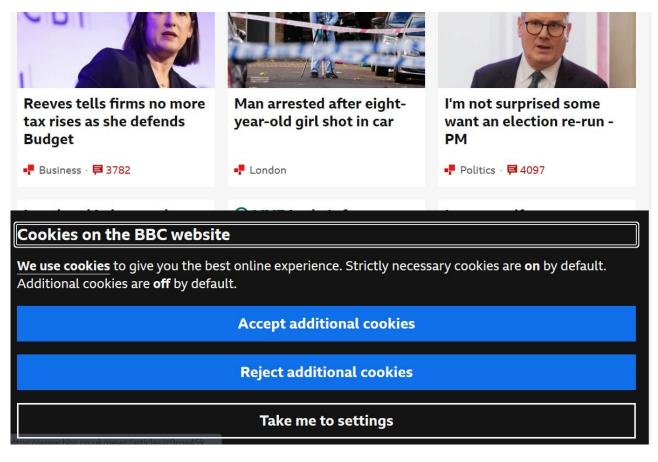
## translates these legal requirements

## into clear, usable features to help build

## safe and trustworthy technology

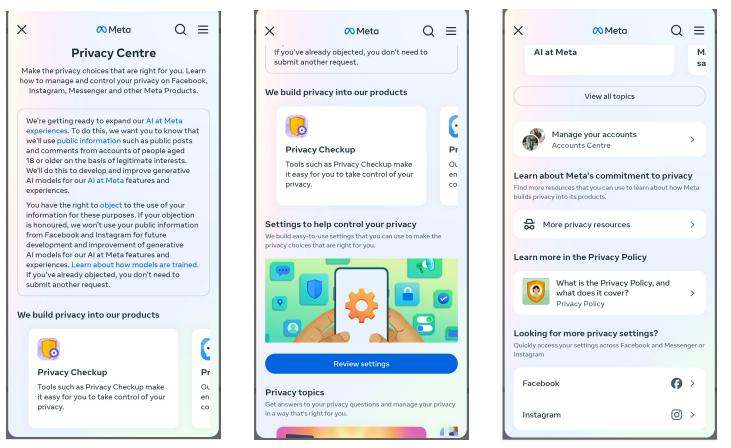
### <u>Clear Consent Mechanisms</u>

- Accept and decline option
- Way to get more information
- Unambiguous: consent is not assumed through pre-ticked boxes or ambiguous phrasing
- User makes an active choice



### **Accessible Privacy Settings**

- Privacy settings are easy to find and manage
- Intuitively organised and easily understood
- Allow users to easily update their preferences



Facebook Privacy centre

### **Transparent Language**

- clear, straightforward language
- no jargon or complex legal language
- help users understand what data is collect, why and how it will be used

#### 3. Personal data we collect about you

Cate

These tables set out the categories of personal data we collect from you. You can also watch our video about Personal Data at Spotify.

		Categories	
Collected when you sign up for the Spotify Service or when you update your account		Voice Data	
egory	Description		
r Data	Personal data that we need to create your Spotify account and that enables you to use the Spotify Service.		
	The type of data collected and used depends on the type of Service Option you have. It also depends on how you create your account, the country you are in, and if you use third party services		
	to sign in. This may include your:  profile name email address password phone number date of birth gender street address (see further details below) country university/college (for Spotify Premium Student) We receive some of this data from you e.g. from the sign up form or account page. We also collect some of this data from your device e.g. country or region. For more information about how we collect and use this	Payment and Purcha	
	data, see 'Your general (non-precise) location' in the Usage Data category.		
et Address Data	We may ask for and process your street address for the following reasons:		
	<ul> <li>to check eligibility for a Service Option</li> <li>to deliver notices which are required by law</li> <li>to deliver support options</li> <li>for billing and tax administration</li> <li>to deliver physical goods or gifts which you have requested</li> </ul>	Survey and Research	
	In some cases, we may use a third party application to help you verify your address, such as Google Maps.		

Categories	Description
Voice Data	If voice features are available in your market and where you've chosen to use a voice feature, we collect and process voice data Voice data means audio recordings of your voice and transcripts of those recordings. For more information on how different voice features work, and how you can control and turn them off, see our Voice Control Policy.
Payment and Purchase Data	If you make any purchases from Spotify or sign up for a paid Service Option or a trial, we will need to process your payment data. The exact personal data collected and used will vary depending on the payment method. It will include information such as: • name • date of birth • payment method type (e.g. credit or debit card) • if using a debit or credit card, the card type, expiration date, and certain digits of your card number Note: For security, we never store your full card number • ZIP/postal code • mobile phone number • details of your purchase and payment history
Survey and Research Data	When you respond to a survey or take part in user research, we collect and use the personal data you provide.

#### Spotify's Privacy Policy

### Limiting Data Collection

- determine which data is necessary for the service to run and which is optional
- Avoid collecting data when not absolutely relevant
- Ensure deletion when data is not needed anymore

Allow "Easy Tolling" to access your location while you are using the app? App explanation for While Use App: "Your location is used to automate tolling payments when the app is open."

### Allow While Using App

Allow Once

Don't Allow

19

## Think Pair Share

### <u>Which other GDPR UI components</u> <u>can you think of?</u>

Think for 1 min Pair for 3 min Share for 5 min

### **GDPR** Principles

- Strong Data Subject Rights
- Data Minimisation
- Consent
- Transparency
- Security measures
- Responsibility

## What changes followed GDPR?

Internet of Things (IoT) Devices (e.g. smart home)

- Enhanced Data Control (Retention, Deletion, Management)
- Transparency on Data Usage
- Clearer Consent and Privacy Notices
- Data Security Improvements



## Mobile Apps (e.g. Health and Fitness Apps)

- Data Minimization
- Consent for Sensitive Data
- Anonymization of Data
- Parental Consent for Minors

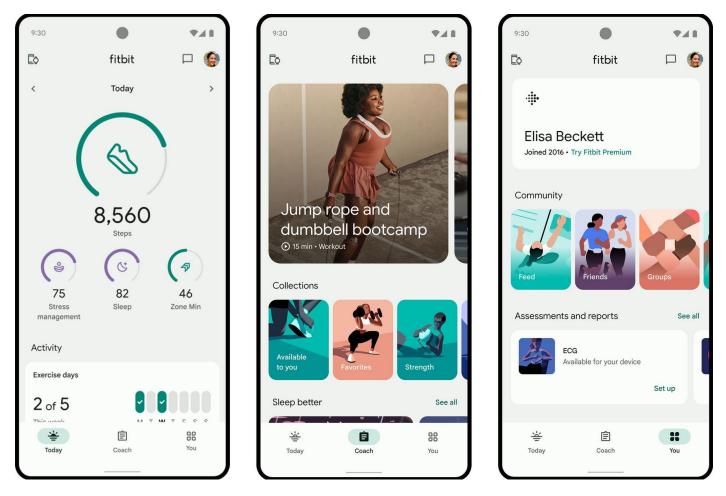
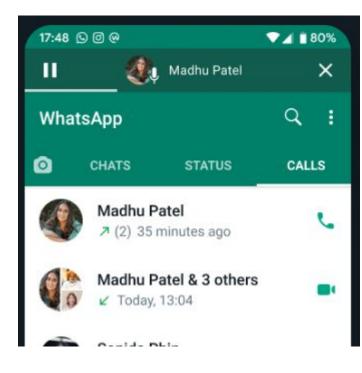
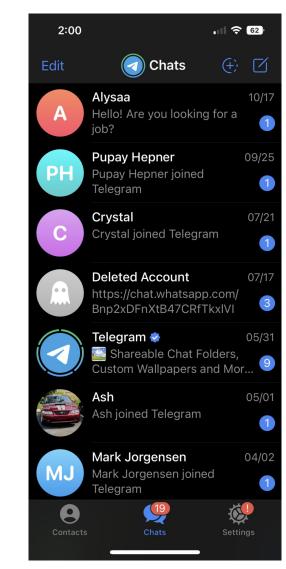


Image from https://www.theverge.com/2023/8/1/23814481/fitbit-app-redesign-google-pixel-watch-2 23

Messaging Apps (e.g. WhatsApp, Telegram)

- Data Minimization
- End-to-End Encryption
- Deletion and Data Portability
- More Transparency on
- Data Processing





## Summary GDPR

- Greater Control Over Personal Data
  - Data Access and Portability
  - Right to Be Forgotten
- Clearer Consent and Privacy Settings
  - Transparency and Consent Mechanisms
  - Better Privacy Notices and Settings
- Protection from Data Misuse
  - Minimized Data Collection
  - Clear Purpose Limitation
- Improved Security Standards
  - Stronger Data Security Requirements
  - Data Breach Notifications
- A Culture of Accountability in Tech Companies
  - Increased Accountability
  - Privacy by Design

# Any questions?

# Week 11: GDPR and HCI

Nicole Meng-Schneider