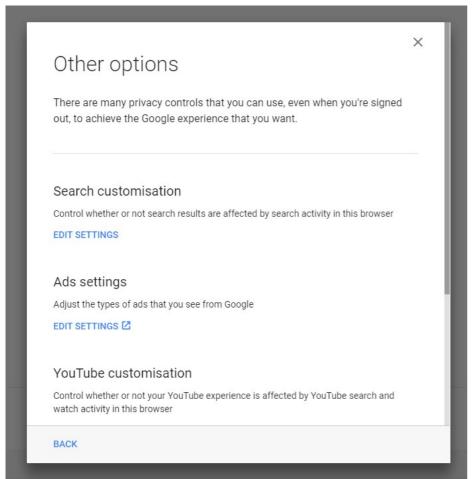
# An Investigation of Consent Dialogues on Websites

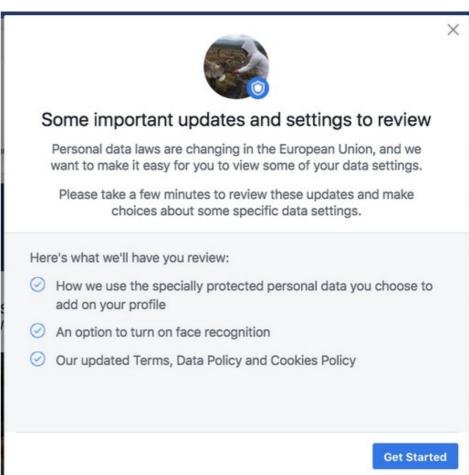
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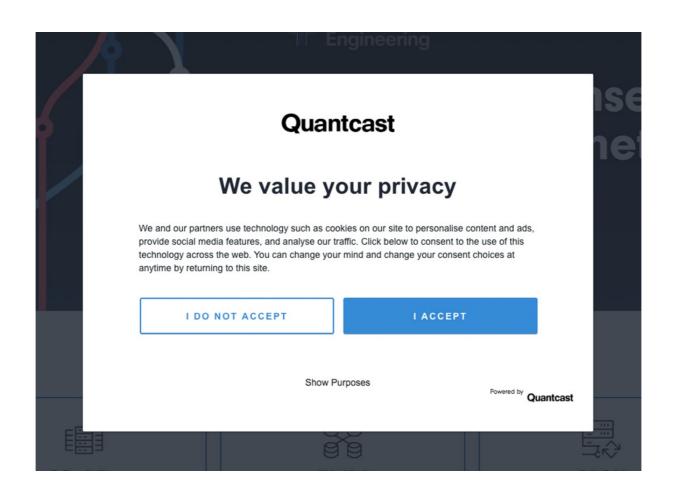
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## An offer you cannot refuse...





## An offer you're compelled to accept?

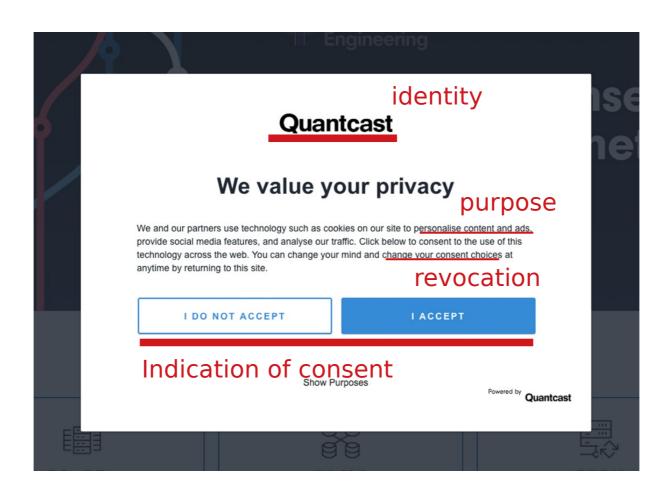


## **Consent Requirements**

- Freely given
- Specific
- Informed
- Un-ambigious
- Revocable / Can be Withdrawn

- GDPR Art. 4-11 (2016)

# So what's happening?



#### Hello, there... Dark Patterns!

#### **Dark Patterns (https://www.darkpatterns.org/)**

Dark Patterns are tricks used in websites and apps that make you do things that you didn't mean to, like buying or signing up for something.

"When applied to consent – does it count as psychological manipulation and make consent invalid?

#### Some notable observations

- Nouwens et al. (2020) scraped five most popular consent dialogue providers on top 10,000 UK websites and found that dark patterns and implied consent are the norm while only 11.8% were GDPR compliant.
- Human and Cech (2020) investigated sociological dimensions of consent and found GAFAM policies contained several variations of dark patterns in interaction design, visual design and textual descriptions
- Matte et al. (2020) list dark patterns within the IAB framework largest ad networks on the internet and showed that websites do not respect consent choices and collect data anyway
- Santos et al. (2020) expand on the above work and show (opine) "it's not possible to fully assess compliance with the law for the majority of requirements because of the current architecture of the Web"

## Why should I / YOU / WE care?

- 1) Lets assume all data collected is used to provide better ads / personalisation / benefits
- 2) This involves creating user profiles that identify attributes about age, sex/gender, interests
- 3) Raw data: collecting **everything** location, call records, apps installed, purchase history
- 4) Inferred data: correlate raw data using algorithms to identify required attributes e.g. demographics

So far, so good...

## Why should I / YOU / WE care?

- 1) You don't want to be surveiled, you don't want the benefits is that a right we have?
- 2) Is this data accurate? Am I really a female, housewife, 45-50 age, mother of 2? (as you can see/tell no.)
- 3) Who else is accessing this data? For what purposes? (Cambridge Analytica is the tip of the iceberg)

## So why consent on websites?

- Is the most closest to end-users / individuals
- Can also be applied to smartphone apps
- Legal requirements are (relatively) clear / known
- Information is (relatively) transparent and accessible making research easier
- Smaller case laws have larger implications
  (snowball effect: if you cannot touch anyone without permission, you cannot slap anyone without permission)

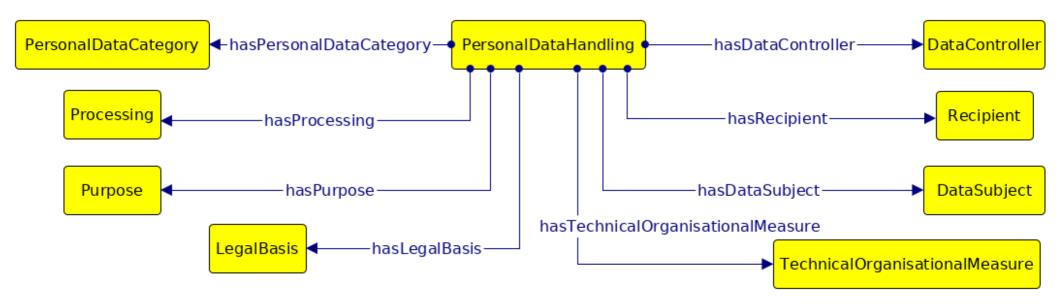
## Okay ... I'm in. Let's do this!

- Legal requirements talk about abstract dimensions of consent e.g. freely given
- Real-world delves with UI/UX paradigms
- We need to close the gap between the two
- 1) Legal Scholars legal interpretations
- 2) Sociologists social expectations
- 3) Psychologists behaviour analysis
- 4) Computer Scientists let's automate that! (that's a joke – the real reason is to analyse the underlying technological implementations)

#### **Machine-readable metadata?**

- Indicate the contents of consent for inspection
- Clear, precise (in terms of being present)
- Standardisation
- Legal Impetus??? ← lacking currently
- ISO/IEC 29184 provides some direction

#### Data Privacy Vocabulary https://www.w3.org/ns/dpv



#### **Consent Receipt**

- Record of consent interactions given, offered, withdrawn, refused – whatever, just log it
- Proof !!! Websites cannot claim consent if you have a consent receipt that says otherwise
- Specification (outdated)
- ISO/IEC published 29184 (2020-06) listing requirements for consent dialogues and mentioning possibility of machine-readable metadata
- ISO/IEC announced 27560 as an upcoming standardisation effort for consent receipts

that's all, folks!

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