



Dark Patterns

Quirin Weinzierl, ass. iur., LL.M. (Yale)

1. Was sind Dark Patterns?

„Dark Pattern sind User Interfaces, die mit Sorgfalt so gestaltet sind, um Nutzer zu verleiten etwas zu tun, das sie sonst nicht tun würden.“

„A dark pattern is a user interface carefully crafted to trick users into doing things they might not otherwise do.“

<https://darkpatterns.org/>

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Here's what we'll ask you to review:

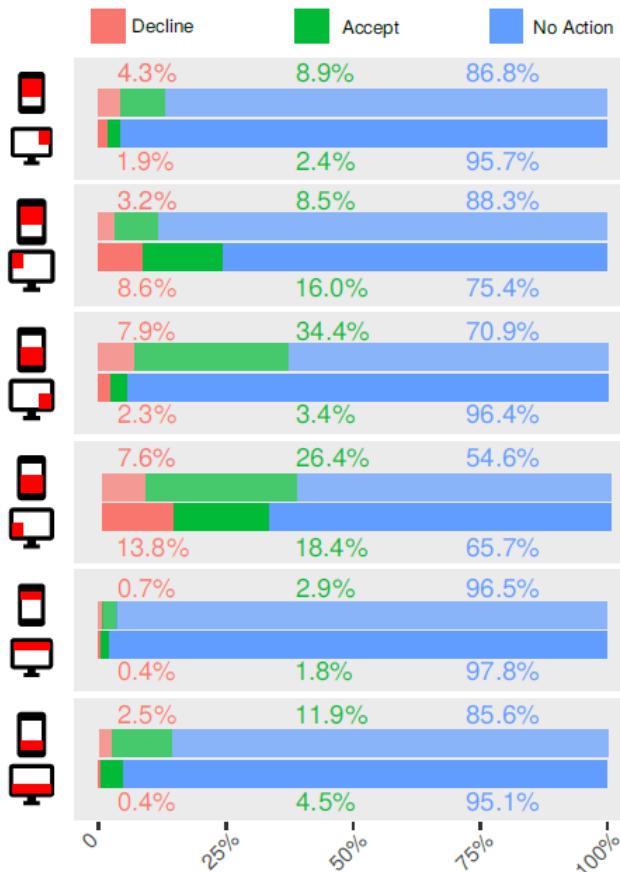
An option for turning on face recognition

Our updated Terms, Data Policy and Cookie Policy

Facebook © 2018

	Gefühlter Druck (Perceived pressure)	Operativer Zwang (Forced action)	Hindernisse (Hurdles/obstruction)	Erschleichen (Sneaking)	Irreführung (Disguise/deception)
Wirkungsweise	Nutzer fühlt sich unter Druck gesetzt, eine bestimmte Handlung (nicht) vorzunehmen	Keine Entscheidungsmöglichkeit oder (mindestens) eine Entscheidungsalternative an weitere Bedingungen geknüpft	Entscheidungsmöglichkeiten werden unterschiedlich schwierig gestaltet	Nutzer bemerkt Konsequenzen seiner Handlung aufgrund heimlicher Änderungen nicht	Gestaltung, die übliche Erwartungen enttäuscht bzw. ihnen entgegenläuft
Beispiele	<ul style="list-style-type: none"> • Nagging • Confirmshaming • Countdowns • Scarcity • Social Proof • Recommendation 	<ul style="list-style-type: none"> • Forced Enrollment • Forced Continuity • Mandated Choice 	<ul style="list-style-type: none"> • Default/Preselection • Hidden Information • Click Fatigue • Roach Motel • Price Comparison Prevention 	<ul style="list-style-type: none"> • Sneak into Basket • Hidden Costs • Hidden Subscription 	<ul style="list-style-type: none"> • Trick Questions • Misdirection • Bait and Switch

2. Wirken Dark Patterns?



Utz et al., (Un)Informed Consent

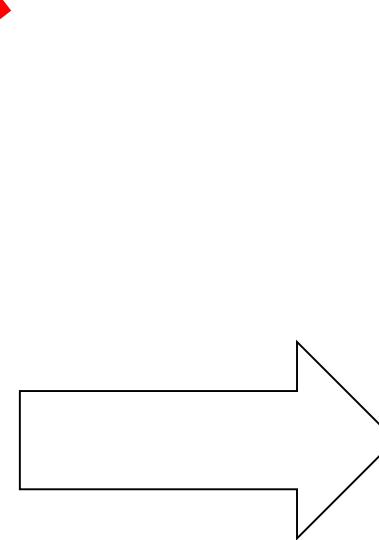
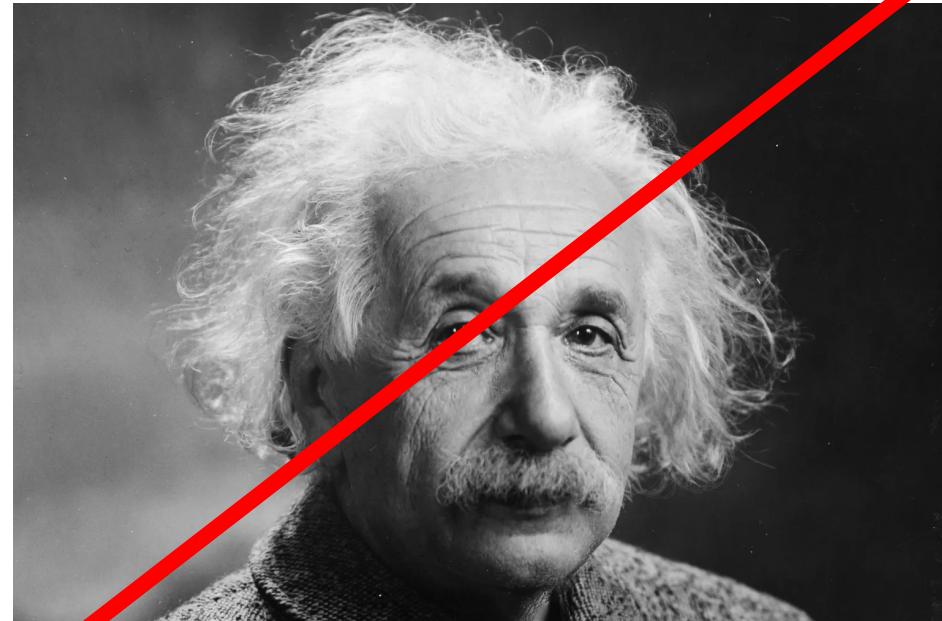
	Control	Recommended	Default	Obstruction
Control	13.2%	15.1% <i>p = .46</i>	15.0%	19.5% <i>p = .03</i>
Scarcity	10.6% <i>p = .39</i>	10.8% <i>p = .41</i>	18.9%	17.4% <i>p = .19</i>
Confirmshaming	20.5% <i>p = .02</i>	16.4% <i>p = .29</i>	21.0% <i>p = .012</i>	20.4% <i>p = .03</i>
Social Proof	19.0% <i>p = .053</i>	21.0% <i>p = .01</i>	21.4% <i>p = .009</i>	27.9% <i>p < .001</i>
Hidden Information	30.8% <i>p < .001</i>	28.7% <i>p < .001</i>	26.7% <i>p < .001</i>	34.5% <i>p < .001</i>

Strahilevitz/Luguri, Dark Patterns: Online Manipulation of Consumers

3. Wie funktionieren Dark Patterns?

„Dark Pattern sind User Interfaces, die mit Sorgfalt so gestaltet sind, um Nutzer zu verleiten etwas zu tun, das sie sonst nicht tun würden. Sie sind sorgfältig gestaltet, mit einem festen Verständnis menschlicher Psychologie und sie haben nicht die Interessen des Nutzers als Ziel.“

„A dark pattern is a user interface carefully crafted to trick users into doing things they might not otherwise do. They're carefully crafted with a solid understanding of human psychology, and they do not have the user's interests in mind.“





anchoring

The first thing you judge influences your judgment of all that follows.

Human minds are associative in nature, so the order in which we receive information helps determine the course of our judgments and perceptions.

We're especially mindful of this bias during financial negotiations such as houses, cars, and salaries. The initial price offered is proven to have a significant effect.



confirmation bias

You favor things that confirm your existing beliefs. We are primed to see and agree with ideas that fit our preconceptions, and to ignore and dismiss information that conflicts with them.

Think of your ideas and beliefs as software you're actively trying to find problems with rather than things to be defended.

"The first principle is that you must not fool yourself – and you are the easiest person to fool."

- Richard Feynman



backfire effect

When your core beliefs are challenged, it can cause you to believe even more strongly.

We can experience being wrong about some ideas as an attack upon our very selves, or our belief system. This can lead to motivated reasoning, which causes us to double-down, despite disconfirming evidence.

"It ain't what you don't know that gets you into trouble. It's what you know for sure that just ain't so."

- Mark Twain



declinism

You remember the past as better than it was, and expect the future to be worse than it will likely be.

Despite living in the most peaceful and prosperous time in history, many people believe things are getting worse. The 24-hour news cycle, with its reporting of overtly negative and violent events, may account for some of this effect.

Instead of relying on nostalgic impressions of how great things used to be, use measurable metrics such as life expectancy, levels of crime and violence, and property statistics.



just world hypothesis

Your preference for a just world makes you presume that it exists.

A world in which people don't always get what they deserve, hard work doesn't always pay off, and injustice happens is an uncomfortable one that threatens our preferred narrative. However, it is also the reality.

A more just world requires understanding rather than blame. Remember that everyone has their own story, we're all fallible, and bad things happen to good people.



sunk cost fallacy

You irrationally cling to things that have already cost you something.

When we've invested our time, money, or emotion into something, it hurts us to let it go. This aversion to pain can distort our better judgment and cause us to make unwise investments.

To regain objectivity, ask yourself: had I not already invested something, would I do the same now? What would I counsel a friend to do if they were in the same situation?



availability heuristic

Your judgments are influenced by what springs most easily to mind.

How recent, emotionally powerful, or unusual our memories are can make them seem more relevant. This, in turn, can cause you to apply them too readily.

To gain different perspectives and relevant statistical information rather than relying purely on first judgments and emotive influences:



belief bias

If a conclusion supports your existing beliefs, you'll rationalize anything that supports it.

It's difficult for us to set aside our existing beliefs to consider the true merits of an argument. In practice this means that our ideas become impervious to criticism, and are perpetually reinforced.

A useful thing to ask is: when and how did I get this belief? We tend to automatically defend our ideas without ever really questioning them.



curse of knowledge

Once you understand something you presume it to be obvious to everyone.

Things make sense once they make sense, so it can be hard to remember why they didn't. We build complex networks of understanding and forget how intricate the path to our available knowledge really is.

When teaching someone something new, go slow and explain like they're ten years old (without being patronizing). Repeat key points and facilitate active practice to help embed knowledge.



self-serving bias

You believe your failures are due to external factors, yet you're personally responsible for your successes.

Many of us enjoy unequal privileges, luck and advantages that others don't. It's easy to tell ourselves that we deserve these things, while blaming circumstance when things don't go our way.

When judging others, be mindful of how this bias interacts with the just-world hypothesis, fundamental attribution error, and the in-group bias.



negativity bias

You allow negative things to disproportionately influence your thinking.

The pain of loss and hurt are felt more keenly and persistently than the fleeting justification of pleasant things. We are primed for survival, and our aversion to pain can distort our judgment for a modern world.

Pro-and-con lists, as well as thinking in terms of probabilities, can help evaluate things more objectively than relying on a cognitive impression.



barnum effect

You see personal specifics in vague statements by filling in the gaps.

Because our minds are given to making connections, it's easy for us to take nebulous statements and find ways to interpret them so that they seem specific and personal.

Psychics, astrologers and others use this bias to make it seem like they're telling you something relevant. Consider how this might be interpreted to apply to anyone, not just you.



framing effect

You allow yourself to be unduly influenced by context and delivery.

We all like to think that we think independently, but the truth is that we are, in fact, influenced by delivery, framing and subtle cues. This is why the ad industry is a thing, despite almost everyone believing they're not affected by advertising messages.

Only when we have the intellectual humility to accept the fact that we can be manipulated, can we hope to limit how much we are. Try to be mindful of how things are being put to you.



fundamental attribution error

You judge others on their character, but yourself on the situation.

If you haven't had a good night's sleep, you know why you're being a bit slower, but if you observe someone else being slow you don't have such knowledge and so might presume them to just be a slow person.

It's not only kind to view others' situations with charity; it's more objective too. Be mindful to also err on the side of taking personal responsibility rather than justifying and blaming.



halo effect

How much you like someone, or how attractive they are, influences your other judgments of them.

Our judgments are associative and automatic, and so if we want to be objective we need to consciously control for irrelevant influences. This is especially important in a professional setting.

If you notice that you're giving consistently high or low marks across the board, it's worth considering that your judgment may be suffering from the halo effect.



bystander effect

You presume someone else is going to do something in an emergency situation.

When something terrible is happening in a public setting we can experience a kind of shock and mental paralysis that detracts us from a sense of personal responsibility. The problem is that everyone can experience this sense of deindividuation in a crowd.

If there's an emergency situation, presume to be the one who will help or call for help. Be the change you want to see in the world.



reactance

You'd rather do the opposite of what someone is trying to make you do.

When we feel our liberty is being constrained, our inclination is to resist; however, in doing so we can over-compensate.

Be careful not to lose objectivity when someone is being coercive/manipulative, or trying to force you to do something. Wisdom springs from reflection, not from reaction.



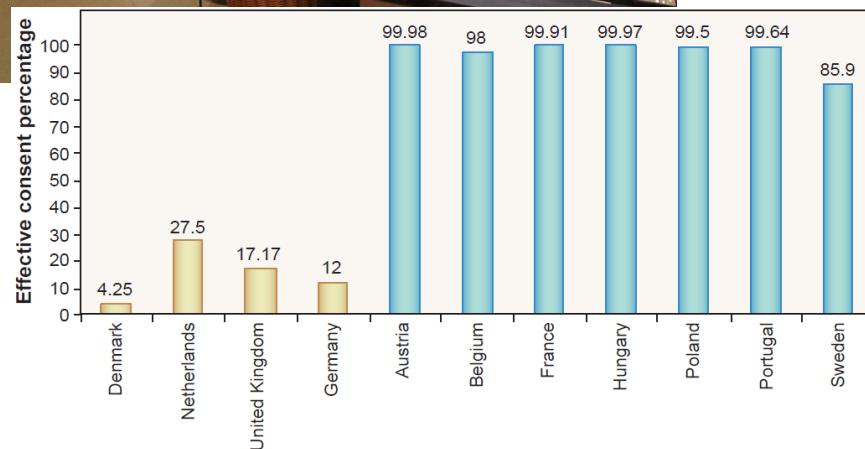
spotlight effect

You overestimate how much people notice how you look and act.

Most people are much more concerned about themselves than they are about you. Against overt prejudices, people generally want to like and get along with you as it gives them validation.

Instead of worrying about how you're being judged, consider how you make others feel. They'll remember this much more, and you'll make the world a better place.

4. Was macht Dark Patterns besonders/gefährlich?



Mayer is famous for many things at Google, but the one that always sticks out – and defines her in some ways – is the “Forty shades of Blue” episode. she ordered that 40 different shades of blue would be randomly shown to each 2.5% of visitors; Google would note which colour earned more clicks. And that was how the blue colour you see in Google Mail and on the Google page was chosen.

5. Sind wir vor Dark Patterns geschützt?

DSGVO

- **kein klares Verbot**
- jedoch:
 - Verbot von pre-ticked boxes (Erwägungsgrund 32)
 - Data protection by design and by default (Art. 25 DSGVO)
 - Fairness-Prinzip (Art. 5 DSGVO)

Information Commissioner's Office (ICO) (UK)

- Age Appropriate Design Code (2020): “Do not use nudge techniques to lead or encourage children to provide unnecessary personal data or turn off privacy protections.”

Europäischer Datenschutzausschuss (EDSA) (EU)

- Guidelines on Consent (4/2019, v2): “dark patterns ... are contrary to the spirit of Article 25”

- 1. Was sind Dark Patterns: Lenkende Design Interfaces**
- 2. Wirken Dark Patterns: Ja**
- 3. Wie funktionieren Dark Patterns: Nutzen Entscheidungsschwächen aus**
- 4. Was macht Dark Patterns besonders/gefährlich: A/B-Testen**
- 5. Sind wir vor Dark Patterns geschützt: Es könnte besser sein**

Danke für Ihre Aufmerksamkeit!

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DaPDe - Dark Pattern Detection Project

- Ziele:
 - Erforschung, Aufschlüsselung und Aufklärung über Dark Patterns
 - Entwicklung von Methoden zur automatisierten Erkennung von Dark Patterns
 - Dark Patterns Detection App
 - Rechtliche Antworten auf Dark Patterns für besseren Schutz von Verbraucher:innen
- Website: <https://dapde.de/de/>



dapde
Dark Pattern
Detection Project

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