



Values in Design

- Design decisions encode values:
 - Efficiency
 - Privacy
 - Beauty
 - Truth
 - Fairness
 - Sustainability
 - ➤ Design decisions express what we care about!

Values in Design: Chatbots

Our first AI is called Pi, for personal intelligence, a supportive and empathetic conversational AI.



- Empathy
- Respect
- Solidarity
- Kindness
- Support

Welcome to Pi







Brainstorm ideas



I need a safe space for something



Relationship advice



Practice a big conversation

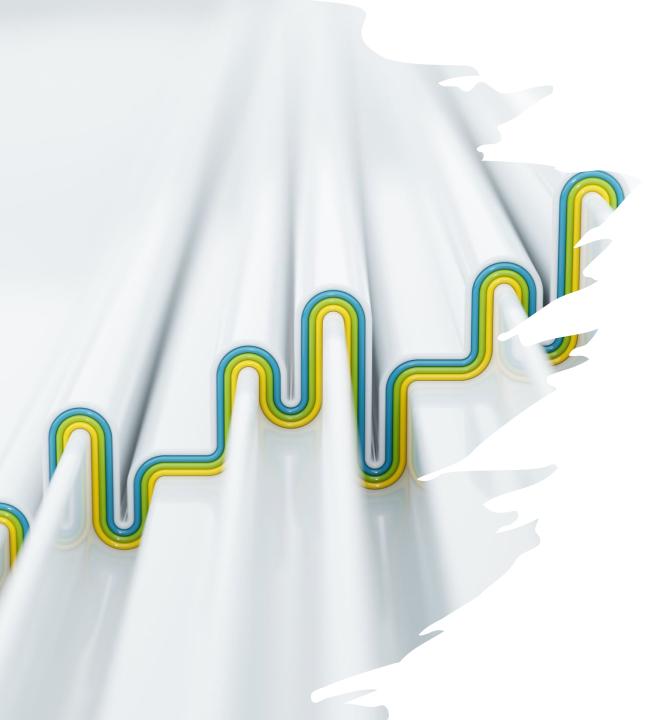




Take your time and know that I'm here to listen. What's been happening?

Values in Design: Chatbots

- Empathy
- Respect
- Solidarity
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Where do values emerge from?

- Values emerge from:
 - Designer understanding
 - Definition
 - Specification of instrumental design features
 - User perception
 - Broader context

Two Steps





Locating values

Defining values



Locating Values

- Key actors
- Functional Description
- Constraints
- Societal input



Locating Values

Collateral values: values that crop up as side effects of design decisions.

➤ Intentions vs. Impact

Locating Values

- Default assumptions: Standardization, power, and discrimination
 - *Preexisting bias*, bias that exists in broader society, culture, and/or institutions is reproduced, either intentionally or unintentionally.
 - *Technical bias:* underlying aspect of the technology reproduces bias.
 - Emergent bias: a system that may not have been biased given its original context of use or original user base comes to exhibit bias when the context shifts or when new users arrive.



Standard user

- Gender
- Age
- Ability
- Race
- Zip code
- Access to technology
- Needs













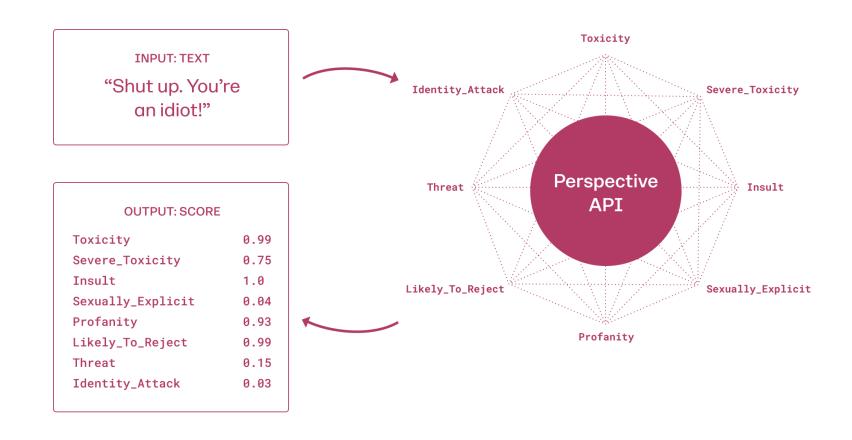








What counts as "toxicity"?



"Rude, disrespectful, or unreasonable language that is likely to make someone leave a discussion."

Defining Values

- Ethical and political values are abstract, controversial, and difficult to define.
- Definition and analysis connect abstract values to concrete design features.
- Products can miss their mark entirely if values are not welldefined

Defining "inclusion"?

- Welcoming any kind of content and any topic that is of users' interest.
- Protecting vulnerable users from insult and psychological harm by banning certain words and topics.





Value Conflicts

- Values may conflict with one another.
 - Inevitable consequence of value pluralism (i.e. the recognition that different things matter to us, often to the same degree)
- These conflicts may appear intractable
 - This does not mean that we should throw up our hands
 - Rather, we should strive to make conscientious and responsible choices



Value Conflicts

- Three approaches
 - <u>Dissolving</u>: developing a creative alternative that avoids conflict and achieves all values in question.
 - <u>Compromising</u>: promoting each of the values in question to a different degree.
 - <u>Trading-off</u>: Giving up one or some values in favor of others.