QUICKSCAN - CANVAS algorithmic and parametric 3D product design

NAME: algorithmic and parametric 3D product design
DATE: September 5, 2024 9:13 PM

DESCRIPTION OF TECHNOLOGY
Using some of your body measurements and personal Facebook data, an algorithm is used to personalise and modify traditional archetypes to your personal and individual needs. personality traits are represented in 3D via sematic association and used to deform meshes of pre existing products.
…

HUMAN VALUES

The products produced could be perceived as sculptural conversation starters and status symbols.

as users reflect on their object they may see parts of themselves they don't like or do like changing their self perception and possibly instigating change in their lifestyle.

products produced from celebrity users could be considered more valuable.

TRANSPARENCY

The way the data is used to change the form of the object is transparent and explained to the user after using the service.

IMPACT ON SOCIETY

A tool to make hyper personalisation available for all giving users the opportunity to buy back their personal data in a physical object. encourage users to reflect how much much data is available on them and reflect on their online personas.

STAKEHOLDERS

- Designer goods consumers
- art consumers
- additive manufacture industries
- customised goods idustries
- flexible manufacture industries

SUSTAINABILITY

users larger users with more data would require more material and more processing power to produce products for.

HATEFUL AND CRIMINAL ACTORS

multiple copies of the modified object could be made and sold without the users consent. It begs the question who owns the design of these objects when individuals data is being used to produce them.

DATA

yes

FUTURE

As the algorithm is more refined and there are advancements in flexible manufacturing with a possible implementation of Ai, It could result in the hyper personalisation for the masses of functional products. An increasing in the sentimental and functional value of products as well as promoting longevity.

PRIVACY

yes body measurement and all fb data is submitted but only personality trait analysis is used.

INCLUSIVITY

yes to some extent as the the physical outcomes are influenced by the designers choice of modifies and their semantic relationship to the personality trait adjectives.

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THIS CANVAS IS PART OF THE TECHNOLOGY IMPACT CYCLE TOOL. THIS CANVAS IS THE RESULT OF A QUICKSCAN. YOU CAN FILL OUT THE FULL TICT ON WWW.TICT.IO

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HUMAN VALUES

How is the identity of the (intended) users affected by the technology?

To help you answer this question think about sub questions like:

- If two friends use your product, how could it enhance or detract from their relationship?
- Does your product create new ways for people to interact?…

TRANSPARENCY

Is it explained to the users/stakeholders how the technology works and how the business model works?

- Is it easy for users to find out how the technology works?
- Can a user understand or find out why your technology behaves in a certain way?
- Are the goals explained?
- Is the idea of the technology explained?
- Is the technology company transparent about the way their…

IMPACT ON SOCIETY

What is exactly the problem? Is it really a problem? Are you sure?

Can you exactly define what the challenge is? What problem (what 'pain') does this technology want to solve? Can you make a clear definition of the problem? What 'pain' does this technology want to ease? Whose pain? Is it really a problem? For who? Will solving the problem make the world better? Are you sure? The problem definition will help you to determine…

STAKEHOLDERS

Who are the main users/targetgroups/stakeholders for this technology? Think about the intended context by…

When thinking about the stakeholders, the most obvious one are of course the intended users, so start there. Next, list the stakeholders that are directly affected. Listing the users and directly affected stakeholders also gives an impression of the intended context of the technology.
…

SUSTAINABILITY

In what way is the direct and indirect energy use of this technology taken into account?

One of the most prominent impacts on sustainability is energy efficiency. Consider what service you want this technology to provide and how this could be achieved with a minimal use of energy. Are improvements possible?

HATEFUL AND CRIMINAL ACTORS

In which way can the technology be used to break the law or avoid the consequences of breaking the law?

Can you imagine ways that the technology can or will be used to break the law? Think about invading someone's privacy. Spying. Hurting people. Harassment. Steal things. Fraud/ identity theft and so on. Or will people use the technology to avoid facing the consequences of breaking the law (using trackers to evade speed radars or using bitcoins to launder…

DATA

Are you familiar with the fundamental shortcomings and pitfalls of data and do you take this sufficiently into…

There are fundamental issues with data. For example:

- Data is always subjective;
- Data collections are never complete;
- Correlation and causation are tricky concepts;
- Data collections are often biased;…

FUTURE

What could possibly happen with this technology in the future?

Discuss this quickly and note your first thoughts here. Think about what happens when 100 million people use your product. How could communities, habits and norms change?

PRIVACY

Does the technology register personal data? If yes, what personal data?

If this technology registers personal data you have to be aware of privacy legislation and the concept of privacy. Think hard about this question. Remember: personal data can be interpreted in a broad way. Maybe this technology does not collect personal data, but can be used to assemble personal data. If the technology collects special personal data (like…

INCLUSIVITY

Does this technology have a built-in bias?

Do a brainstorm. Can you find a built-in bias in this technology? Maybe because of the way the data was collected, either by personal bias, historical bias, political bias or a lack of diversity in the people responsible for the design of the technology? How do you know this is not the case? Be critical. Be aware of your own biases.…

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