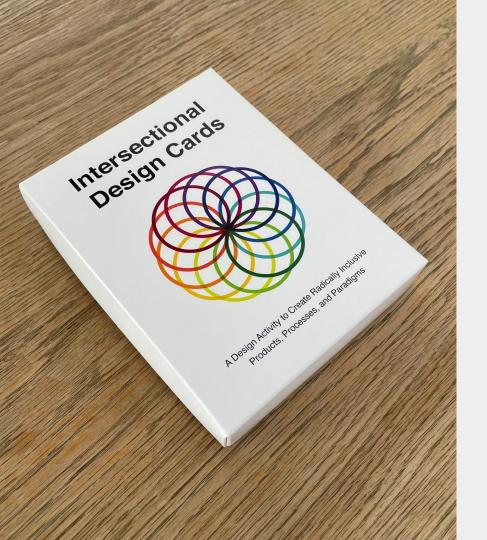
Intersectional Design Cards



A Design Activity to Create Radically Inclusive Products, Processes, and Paradigms

Intersectional Design Cards

Gendered Innovations
Stanford University
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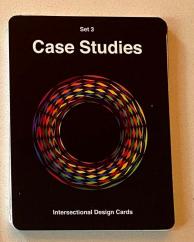
Welcome to the Cards!

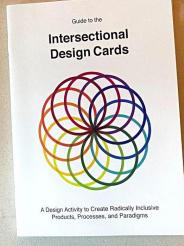
Our goal was to **create a toolkit** for design and engineering teams that is responsive to intersectional needs and perspectives.

The Intersectional Design Cards are designed to help teams explore and develop intersectional design solutions.











Each deck includes:

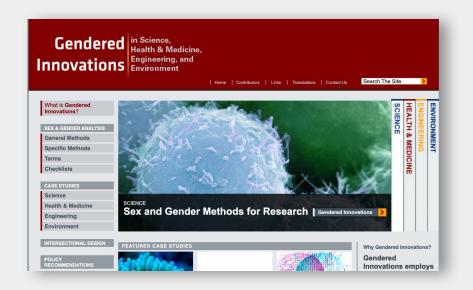
- A Guide Booklet
- Set of 12 Intersectional Factor**Definition** Cards
- Set of 12 DesignQuestion Cards
- Set of 16 Case Study Cards



Why use these cards?

The cards were designed to help people and teams:

- Navigate assumptions and biases to avoid designing to stereotypes.
- ✓ Integrate intersectional design thinking into your design work from the beginning.
- ✓ Course correct.
- ✓ Identify new markets and business opportunities.
- Build an equitable, sustainable, and just society.





This work evolved out of an ongoing collaboration by an interdisciplinary team of researchers, designers, and practitioners, who conduct research, hold workshops, and teach classes at Stanford University's Hasso Plattner Institute of Design, the d.school.

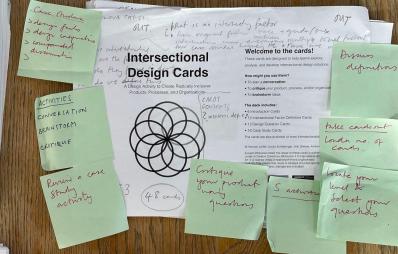


thinking about sex Paradigms and purpose

fits all," or is it customized with anthropometries, physiology, and, e.g.



What are the design levels?



Start Here These cards are designed to help teams explore, analyze, and invent inclusive design solutions Step 1: Identify Your Goal

There are three key activities to do with the cards 1 Start a conversation

2 Brainstorm ideas

3. Critique your product, process, and/or organization Decide which path you want a explore, and follow the instructions on the respective activity cards.

Step 2: Set it up Organize the cards into 3 piles.

Set 1: Definition Cards Set 2: Design Question Cards

No. of PLASERS

THUMBNAILS



Why use these carde? The goal of these cards is to help you create an inclusive design cycle.

Products that promote equality

Intersectional Design drives Innovation while supporting social justice and environmental sustainability. It's about getting the design right for users across all of society-from the very beginning. The Intersectional Design Cards include: a Guide Booklet with directions and activities a set of Intersectional Factor Definition cards a set of Design Question cards a set of Case Study cards with intersectional factors "Turning sharp academic insights into actionable tools for busin can be tricky; but the Intersectional Design Cards deck does this and more, swiccking unclandonal bias and illuminating hidden assumptions. A genuinely fun way to explore intersectional design and go from just good products to great ones." Robin Goldstein, Stanford Advisor, 22-year Apple Veters "Great to get start-ups thinking about intersectional design ser early on in the innovation process. The cost for doing this right is much smaller before companies rush into a solution that exclude:

Prototyping

The cards were prototyped for over a year, and included feedback from fellow educators, students, and industry experts.



Designed for use with designers and non-designers alike, the deck begins with a set of definitions:

What is intersectionality? What is design? What is intersectional design?



Definition

Intersectionality

In 1989, legal scholar Kimberlé Crenshaw coined the term intersectionality to describe how multiple forms of discrimination intersect in Black women's lives in ways that are erased when sexism and racism are treated separately. Since then, the term has been expanded to describe intersecting forms of inequity emerging from structural advantages and disadvantages in society.

Intersectional design considers overlapping or "intersecting" factors—including gender, ethnicity, age, geographic location, etc.—that interact to shape a person's or a group's experience and social opportunities as a starting point for a more inclusive design approach.

Age

Disability

Educational Background

Ethnicity

Family Configuration

Gender

Geographic Location

Race

Sex

Sexuality

Social and Economic Status

Sustainability

What are intersectional design factors?

Since 1989, intersectionality has broadened from gender and race, to describe multiple intersecting factors emerging from structural advantages and disadvantages in society. Intersecting factors may include age, social and economic status, educational background, geographical location, etc. that interact to shape a person's or a group's experience and social opportunities.

Our design case studies include—but are not limited to—the twelve intersecting factors, listed at left.

Other factors may include appearance, language, political ideology, religion, immigration status, work background, Indigeneity, physical and mental health, and more.

Design Level 01
Form & Function



01 Form & Function

Question 1

Who is the user?

Are you developing your product for a Black woman? An elderly man? A wealthy non-binary person? An LGBTQ+ individual in Sweden? An Asian child living in California?

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Experiences & Services



02 Experiences & Services

Question 1

Who has physical access to your experience/service?

Who does it leave out based upon physiology, age, primary sex differences (e.g., genitalia) or secondary sex differences (e.g., breasts)? Can people who are color-blind use it? What about the hearing impaired?

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Example of
Intersectional
Factor
Definition
Cards

Design Level 03

Systems & Infrastructures



03 Systems & Infrastructures

Question 1

Who is at the design table? Who isn't?

Do you think that you are designing for everyone? If so, what aspects about this design are actually for you? Which aren't?

Who are the other stakeholders involved in producing your design (e.g., in your extended supply chain)?

Are you engaging future users in a process of cocreation and participatory design?

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Design Level 04

Paradigms & Purpose



04 Paradigms & Purpose

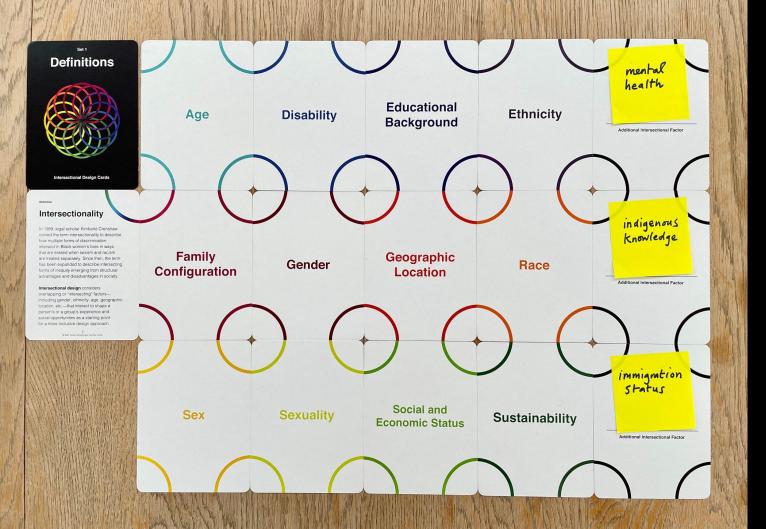
Question 1

How might your design unintentionally reinforce existing social norms?

How might your design influence users? How might it impact a user's life conditions and opportunities? How might it free people from repetitive tasks and foster educational and work opportunities?

How might your product challenge stereotypes in ways that promote social and environmental justice?

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Customization

The deck was created to adapt, with room for organizations and individuals to add factors that are relevant to their work.



What is intersectional design?

Intersectional Design drives innovation while supporting social justice and environmental sustainability. It's about getting the design right for people across all of society—from the very beginning.



01 Form & Function

The look and feel of a design, its physical qualities and characteristics; and the impact of its materials and production on the environment.



02 Experiences & Services

User/customer experience, brand interaction, business models, strategies, and design decision-making.



03 Systems & Infrastructures

Systems thinking, sustainability, interdisciplinarity, networks, and databases.



04 Paradigms & Purpose

Conceptual frameworks, models, worldviews, major cultural themes, archetypes, ideologies, and mindsets.

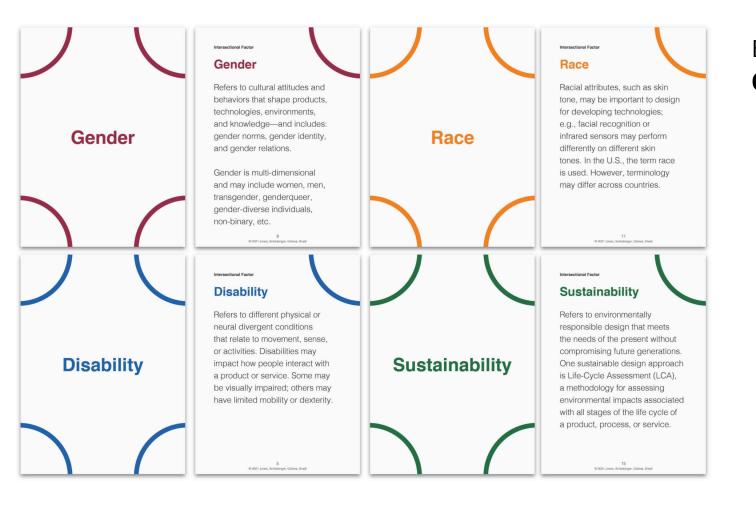
How do we define design?

Today, we recognize that design encompasses many different things. Take, for example, the smart phone. Design might mean the look and feel of the device in your hand; the experience of video chatting or using a virtual assistant; the network of hardware and software that the device connects to; and/or the cultural trends that emerge through using the device in new and unforeseen ways.



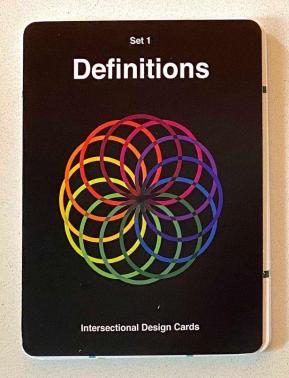
Question Index Card

There are 4 question cards pertaining to each level.

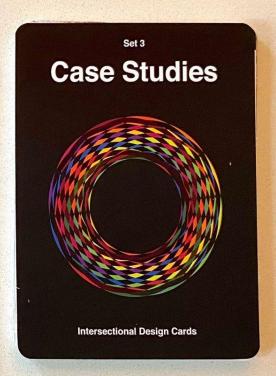


Example of **Question Cards**

The deck is organized into three sets:







Example Design Levels, Case Studies, and Questions

01 Form & Function

01 Form & Function

Question 2

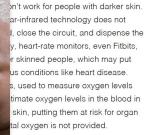
How might your product be made customizable?

For example, how might you address sex-specific biomechanics, anthropometrics, physiology, and physical strength? Or skin tones, in facial recognition, for example? Are you considering how strength and dexterity differs for young people and elderly people?

Form & Function Case Study 1.3

Pulse Oximeter

Key Intersecting Factors: Race, Sex



be also inaccurate for women,
/pically smaller and geometrically

i. Black women may experience the

27



Example Design Levels, Case Studies, and Questions

02 Experiences & Services

02 Experiences & Services

Question 3

Who might be marginalized within your target demographic?

Have you considered intersecting factors that may reveal sub-group differences between people that would otherwise have been obscured? The elderly? The disabled? Men? Women? Cis? Trans? How might you design experiences and services for them?

Experiences & Services Case Study 2.2

Virtual Assistants

Key Intersecting Factors: Gender, Ethnicity,



designers hope to add a viable

03 Systems & Infrastructures

03 Systems & Infrastructures

Question 3

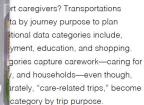
How might your design change as social or environmental relations change in the coming years?

For example, in which ways might your design assume a traditional division of labor? How are you taking into account climate change challenges?

Systems & Infrastructure Case Study 3.3

Transportation Planning

Key Intersecting Factors: Family Configuration,



nt? Caregivers tend to make multiple, short trips that are grouped none long commute trip. Taking aregivers' travel patterns allows neers to design systems that work roader segments of the population.

4



04 Paradigms & Purpose

04 Paradigms & Purpose

Question 3

What kind of future worlds would you like to see your design working within?

For example, how might your design fit into a genderless world? An intergenerational world? A socially just world? Which will your product, service and/or organization foster?

Paradigms & Purpose Case Study 4.1

Social Robots

Key Intersecting Factors: Disability, Gender, Race

nd, consequently, gender machines cultures, gender is a primary social pots are designed in a world alive gender identities, and gender

ut that, even though robots are ite—and many have blue eyes, ematic from an ethnic point of designed for learners with autism ASD)—comes in a variety of skin options might enhance human/

ed to resemble a boy because mes more boys than girls. It is eate a robot for the millions of girls enges of the disorder.

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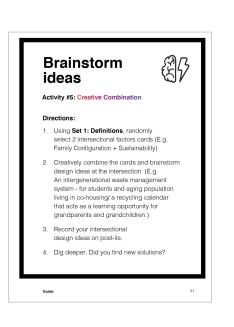


We purposefully designed the deck to be used in multiple ways.

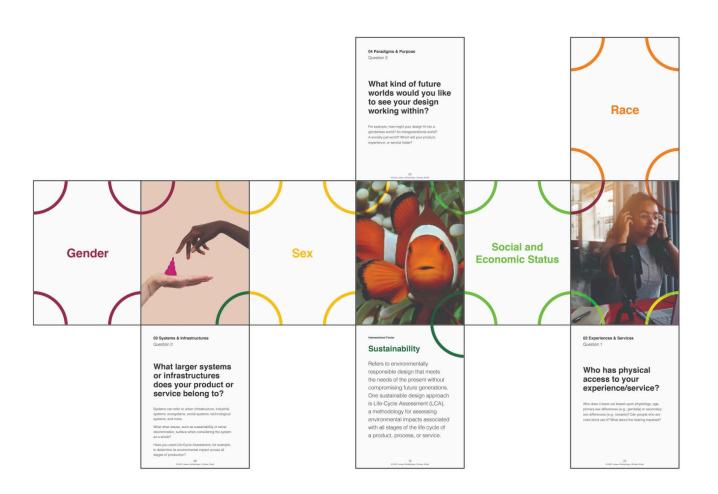
Each person or team may have a different goal for using the deck. To get you started, we suggest **three ways to use the cards**:



Start a conversation Activity #1: Definition review Directions: 1. As a team, read through all of Set 1: Definitions. 2. Break into small groups and discuss the intersectional factors definitions. Does the terminology mean different things to different people, e.g., from different geographies or cultures? Are there any definitions that stand out in relation to your design work? Come back together as a team and share insights from your discussions Which factors created the most discussion? Were there any ambiguities and/or differences of opinion regarding the definitions? Intersectional Design Cards







The cards are designed to visually connect with one another.

Teams can visualize the intersections between factors and answer questions pertaining to their products and services—or practice by analyzing the case studies.



Corazón Joh

Workshops with the Innovations in Inclusive Design d.school class



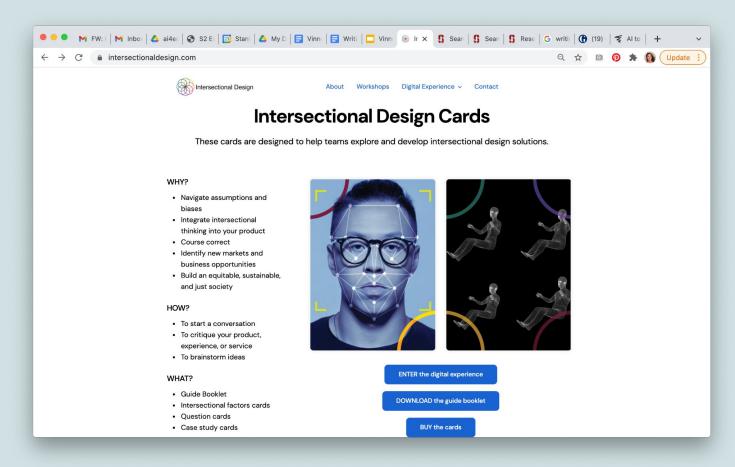
Workshop with Vinnova, the Swedish Innovation Agency

Jeyla Aranjo

Cards in Action

The cards, published in November 2021 and distributed by Stanford University Press, have been prototyped with students and start-up teams, presented at several conferences, and reviewed by industry professionals and academics.

Future workshops are planned with the Green Library at Stanford as well as several Silicon Valley tech companies.



Free Access Online

In addition to the physical deck, all of the case studies and questions are available online for free in order to reach as many people, organizations, and institutions as possible.

Accompanying website and digital version of the cards: https://intersectionaldesign.com/

Thank you, Core 77!

