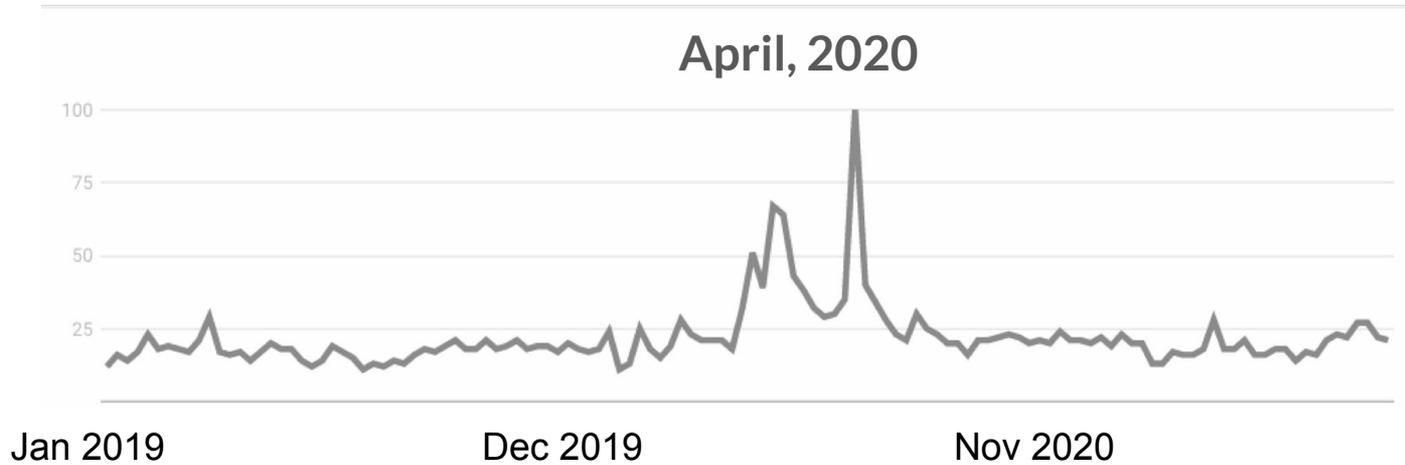


A rustic outdoor dining table set in a field. The table is made of thick wooden planks and is supported by several tree stumps. It is set with plates, cutlery, and a central floral arrangement. A wicker basket sits on the table. In the background, there is a thatched-roof house and a field of young trees. The sky is overcast.

Design for Solidarity

Lu, Dina, Elina, Carlotta, Jihae

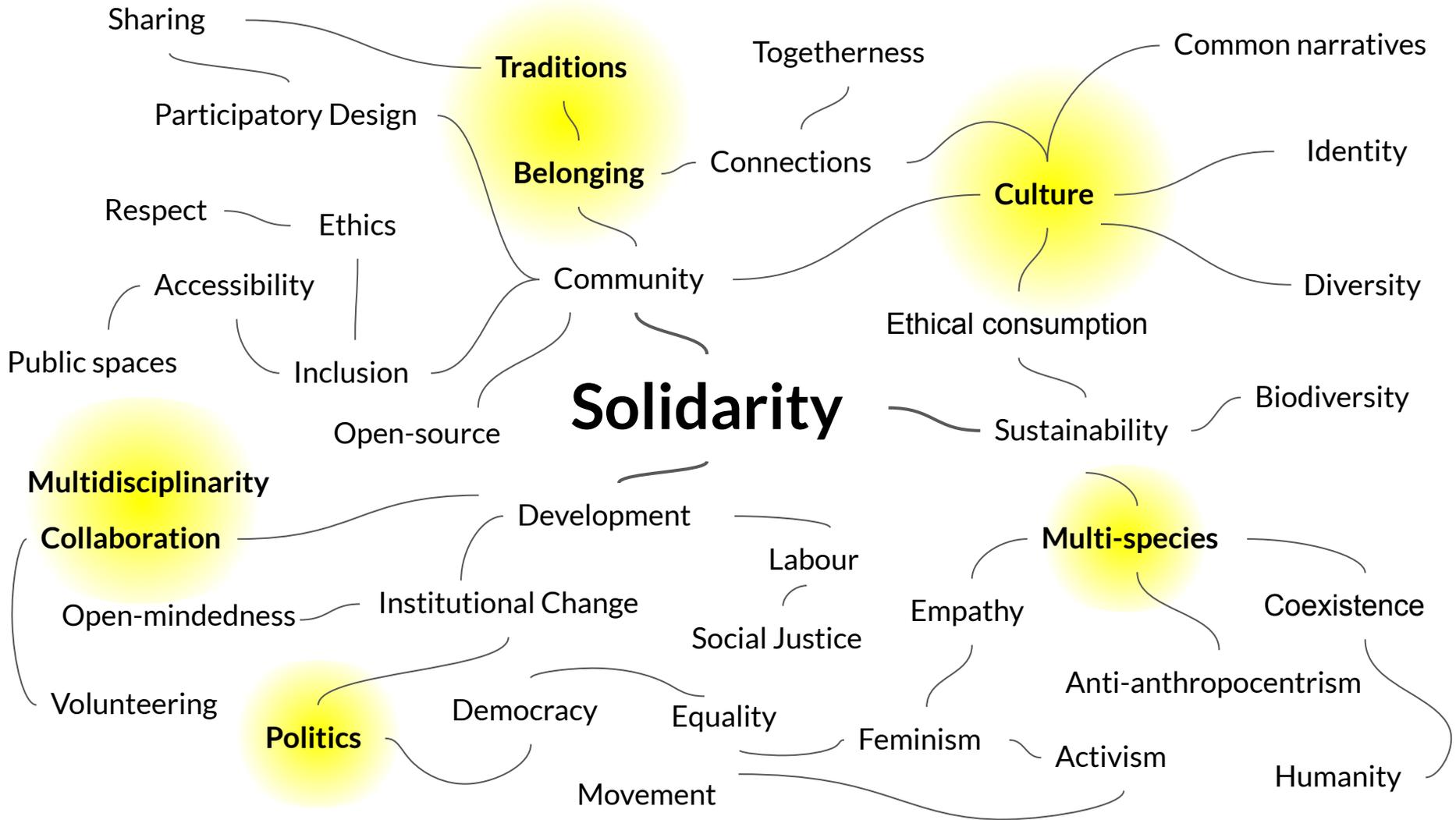
Google Web
Search Trends
of “Solidarity”



solidarity

/ˌsɒlɪˈdærɪti/
noun

an awareness of shared interests,
objectives, standards, and
sympathies creating a psychological
sense of unity



Democracy

Institutional
Change

Development

Equality

Feminism

Social Justice

Political Design

Lu

“Vaalikone” - Voting advice application
<https://yle.fi/uutiset/3-11922785>



Politics

“...is the way that people living in groups make decisions.”

Design is always “political”

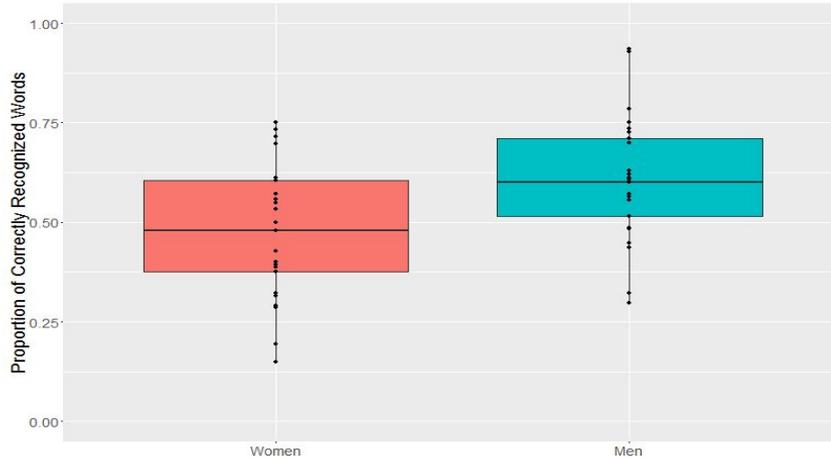
- **Who** are the decision makers
- **How** do they decide
- **Where** will the decision impact on



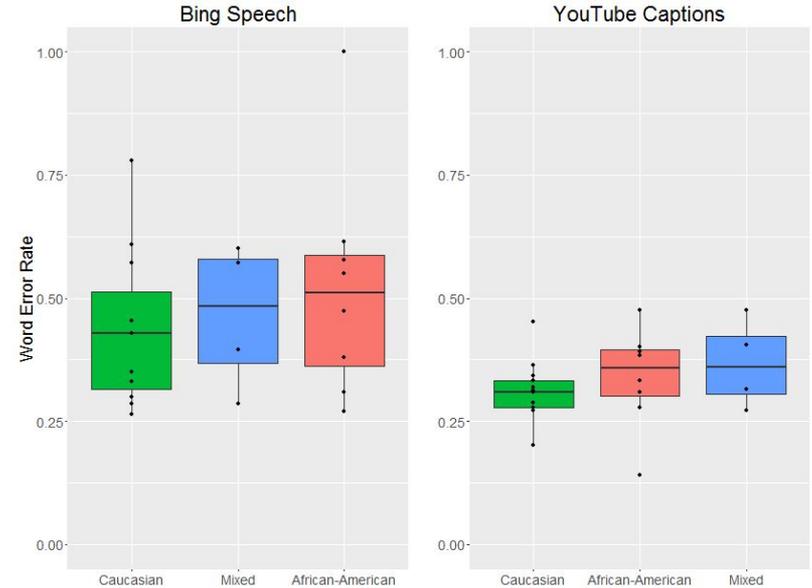
Children participating in a community space making workshop in Bangkok

Individual's Experience & Intersectionality

Biased design can further block already-disadvantaged groups' capabilities.



YouTube's auto captions consistently performed better on male voices than female voice ($t(47) = -2.7, p < 0.01$)



YouTube has significant difference in WER between races, while both are more accurate for Caucasian speakers

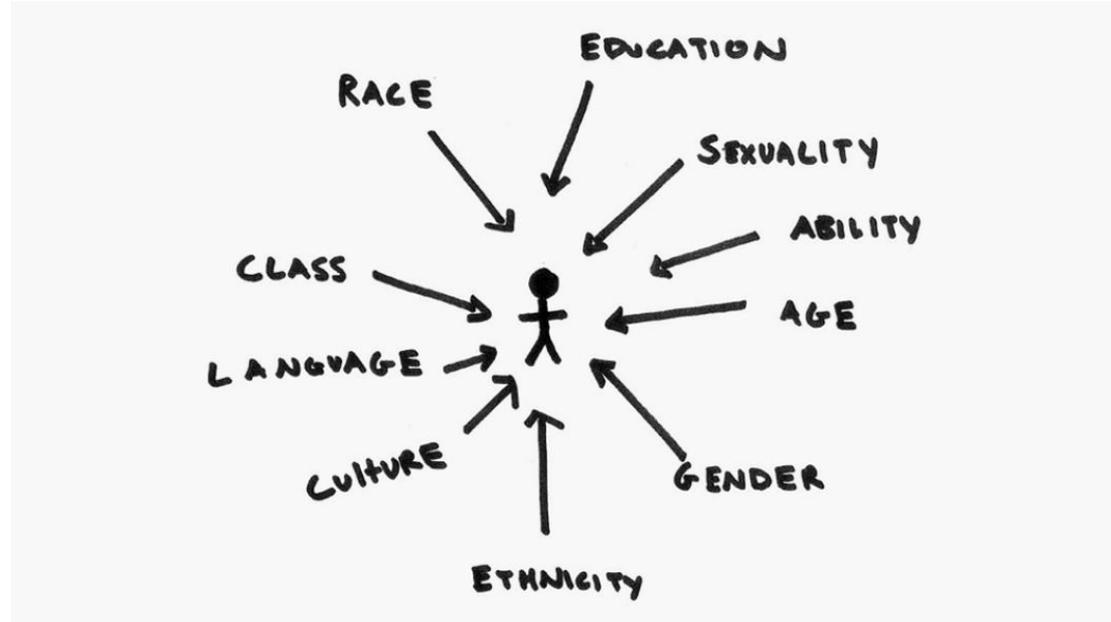
Political Design for Solidarity

Does solidarity only arise from the homogeneity of individuals (e.g., positioning, identity, values)?

No.

Design can

- help **position** oneself factually
- stimulate meaningful **conversations**



A basic intersectionality model

Possible Design Idea (Instrument for Experiential Learning)



Drinkable Gap

In this café, "region" and "gender" are assigned randomly upon order.

Visitor pays:

- price of coffee in local currency
- **hours with minimum wage work** from the assigned region
- extra **hours of unpaid care work** based proportionally on the assigned gender

Possible usage scenario:

- **experiential learning**
- encourage revisit to update the view



How shall we reclaim solidarity?

Diversity

Sustainability

Development

Empowerment

Identity

Mental well-being

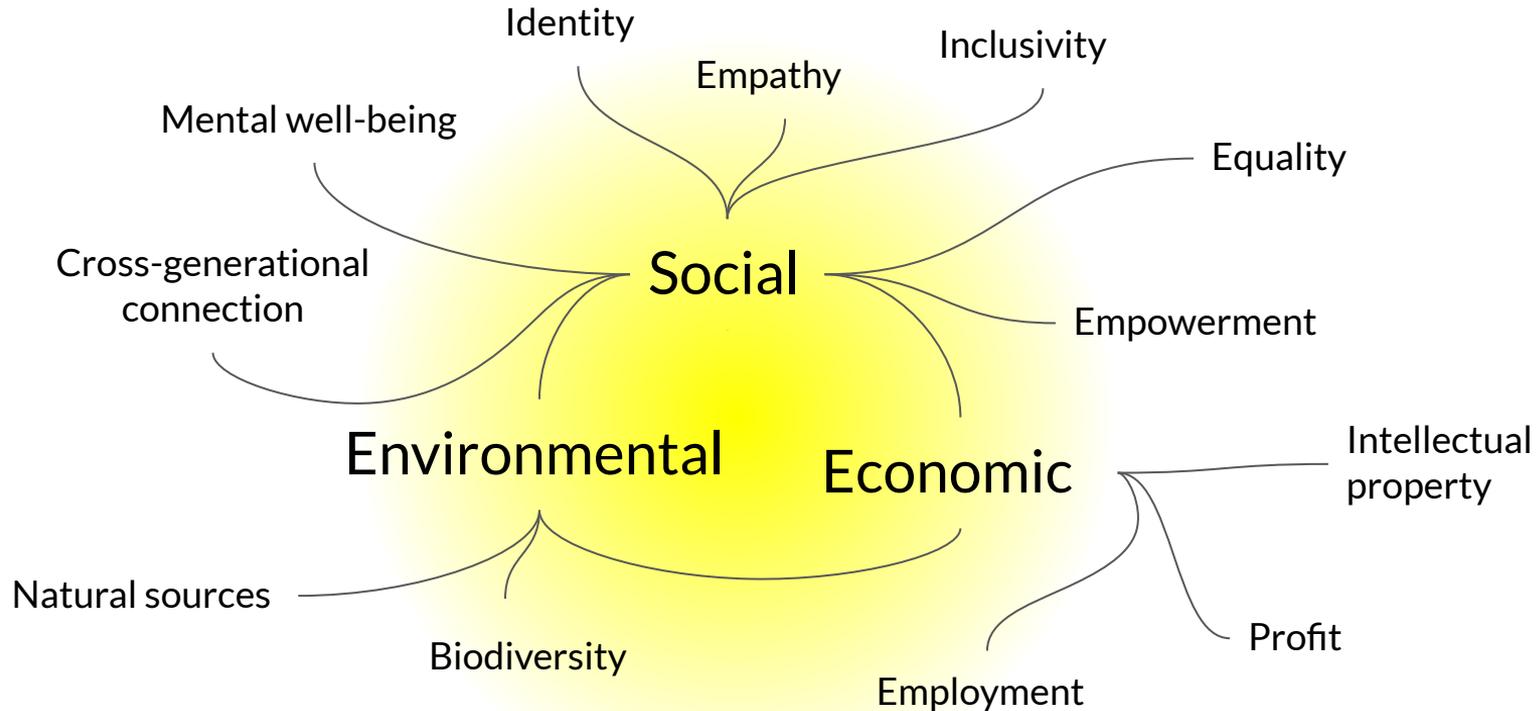
Cultural Solidarity

Dina

*Petrykivka decorative paintings,
Closed factory of local crafts
ph. Mariya Savoskula, Serhiy Korovainyi*

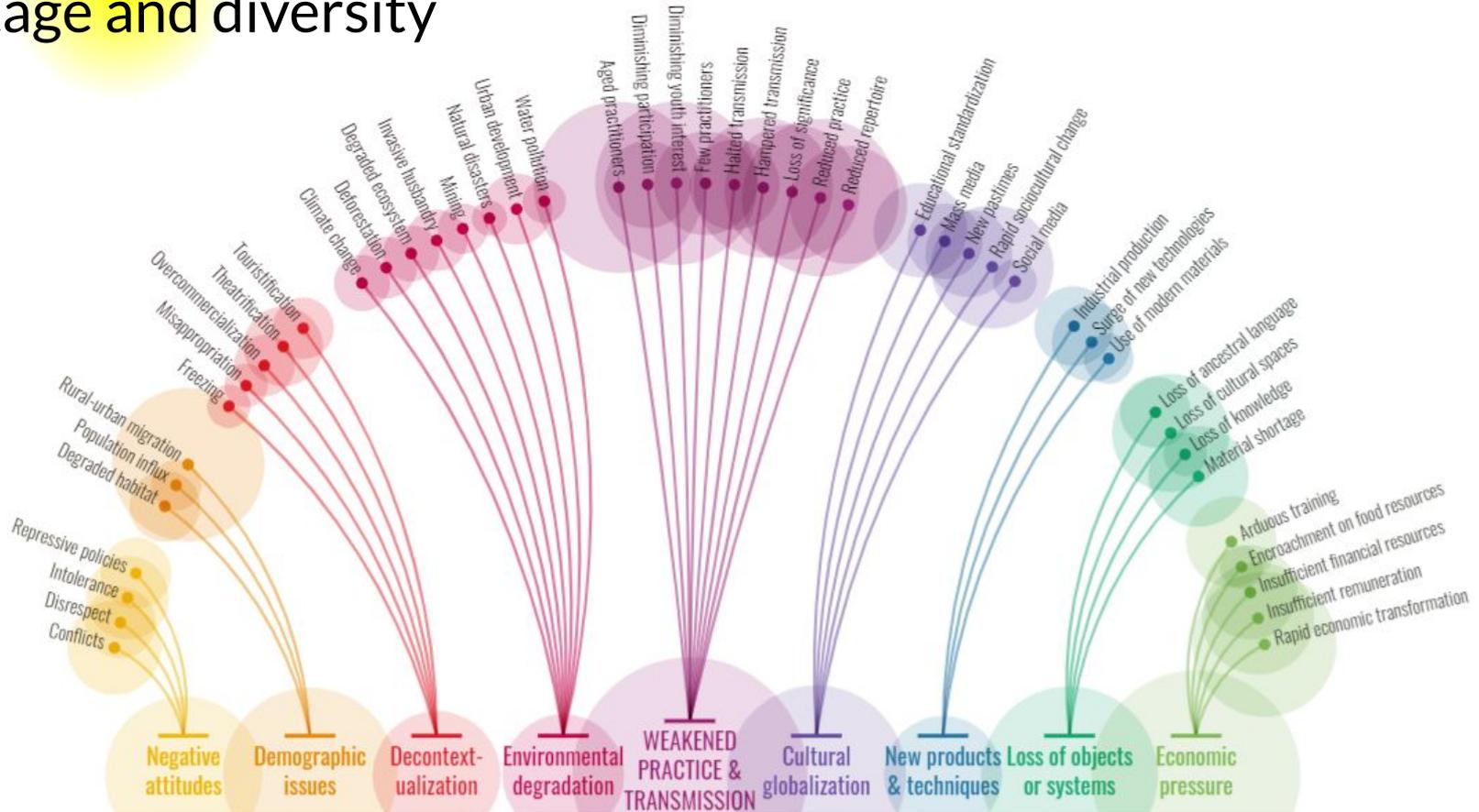


Culture diversity and Sustainable development



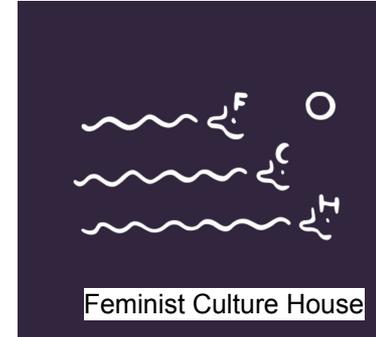
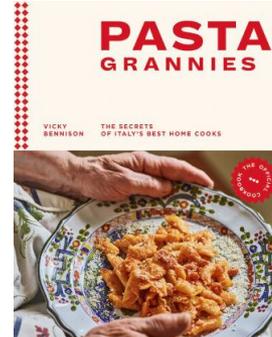
Threats to intangible cultural heritage and diversity

'Dive into intangible cultural heritage' project © UNESCO



Design for Cultural Solidarity

- Product
expressing cultural identities through design; emotionally durable design
- Communication
whose stories are told?
- Collaborative and participatory design
promoting cultural diversity



Design proposal for Cultural Solidarity

Visualizing data on cultural diversity / biodiversity using appropriate craft techniques and motifs.



Ryij



Rag rug



Ceramic paintings



Pysanka

Community

Ethics

Togetherness

Respect

Sharing

Participatory
Design

Accessibility



Traditions & Belonging

Elina

Traditions & Belonging

- Loss of culture and traditions
- Psychological impact
- Loss of individuality
- Saving traditions and culture
- Create feeling of home no matter where you live
- Make traditions more available
- Unite people
- Get to know other cultures



Traditions & Belonging

Target audience

- People who move away from their family home
- People who are interested into saving their culture and traditions

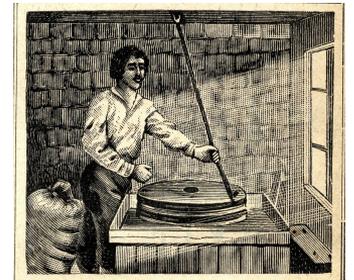
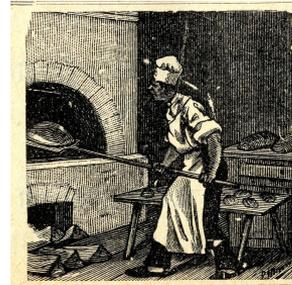


Traditions & Belonging

Kit for baking Latvian rye bread at home.

- No matter where you live
- Make traditions more available
- Saving the product

Design of this kit would be made by taking into account the Latvian aesthetic and design.



Sustainability

Empathy

Coexistence

Ethical
consumption

Anti-
anthropocentrism

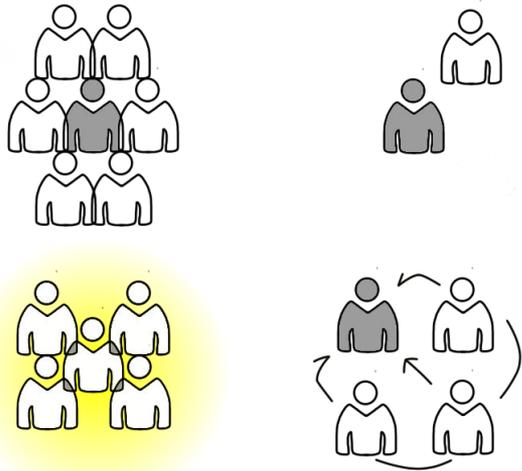
*The Guardian, "How creating wildlife
crossing can help reindeer, bears-and
even crabs"*

An aerial photograph showing a multi-lane highway cutting through a dense forest. Two large, arched concrete tunnels are built into the hillside, allowing wildlife to cross the road safely. The surrounding area is lush with green trees and vegetation. A small car is visible on the highway in the upper right.

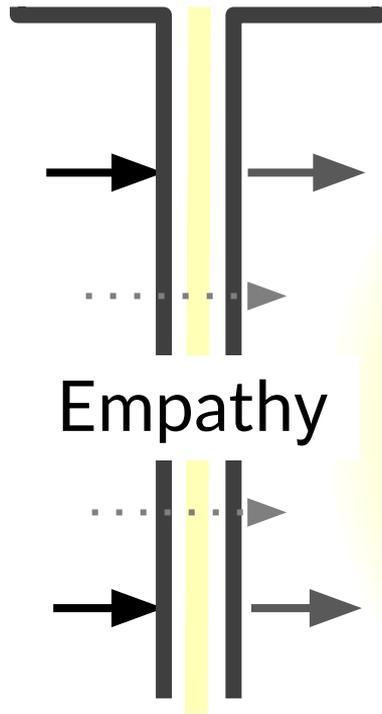
Multi-species Solidarity

Carlotta

Human

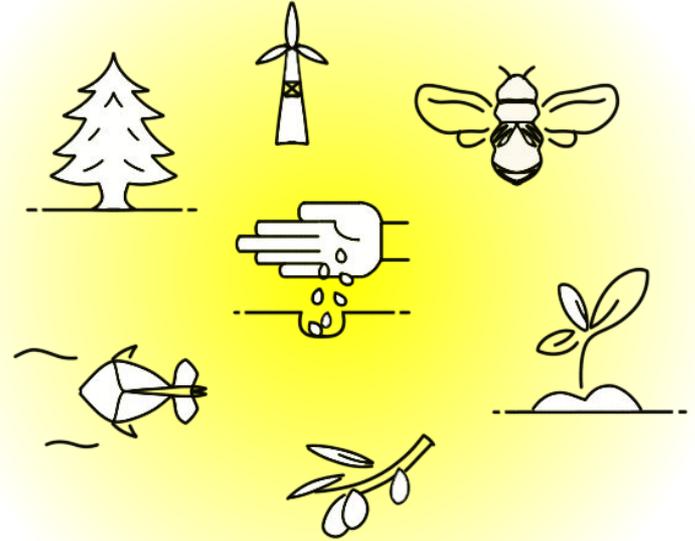


Attention
Campaigning
Action



Empathy

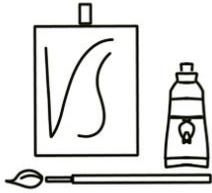
More-than-Human



Creating inspiring and plausible
visions of the future
multi-species cohabitation
beyond self-interest and utility

← **Solidarity** →

Multi-species solidarity

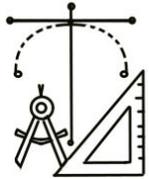


Art

Design

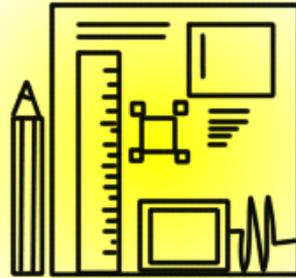


Ethics



Architecture

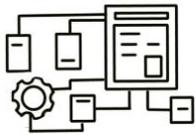
Eco-social framework
where human and
non-human lifeforms
coexist



Ecological issues,
eco-social justice and
sustainability



Politics



Engineering

entails questioning our most
basic cultural narratives



Aesthetics

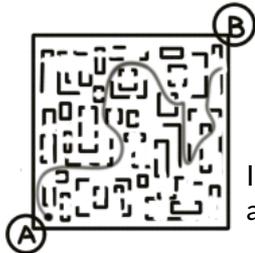
Multi-species solidarity



Criticize the world of goods and consumption

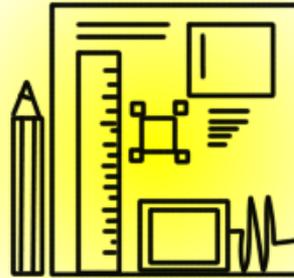


Creativity for imagining responsible relationship with the environment



Influencing participation and decision-making

Design



Ground of experiments

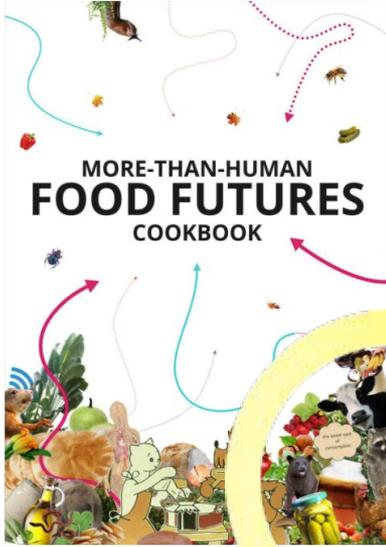
Structures

Spaces

Behaviours

Stories

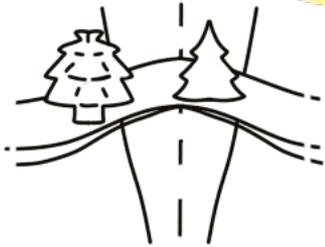
Capabilities



Urban beekeeping in New York City



The Mosquito Translator.
(Nonhuman Nonsense)



Bridge for animal crossing (The Netherlands)

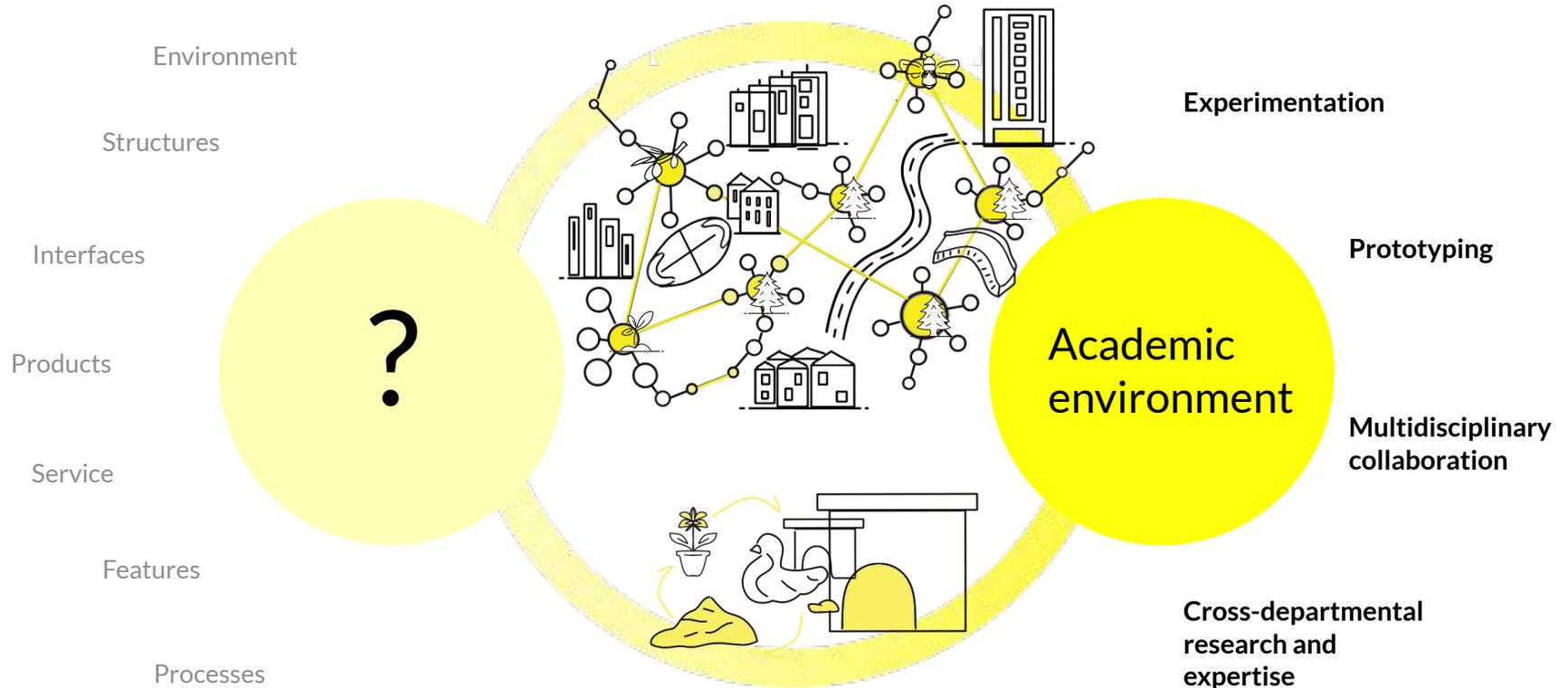


What would Food Policy Look Like if it was Made by Slugs? ("Feeding Food Futures")



'Refuge for Resurgence', La Biennale Di Venezia 2021.
("How do we live together?")

Multi-species solidarity



Thematic Studio

Learning

Opportunity

Cooperation

Synergy

Experience

Entrepreneurship

Accessible



Multidisciplinary Collaboration

Jihae Kim



Aalto University

Value

Collaboration

Student
Community

Entrepreneurship
Community

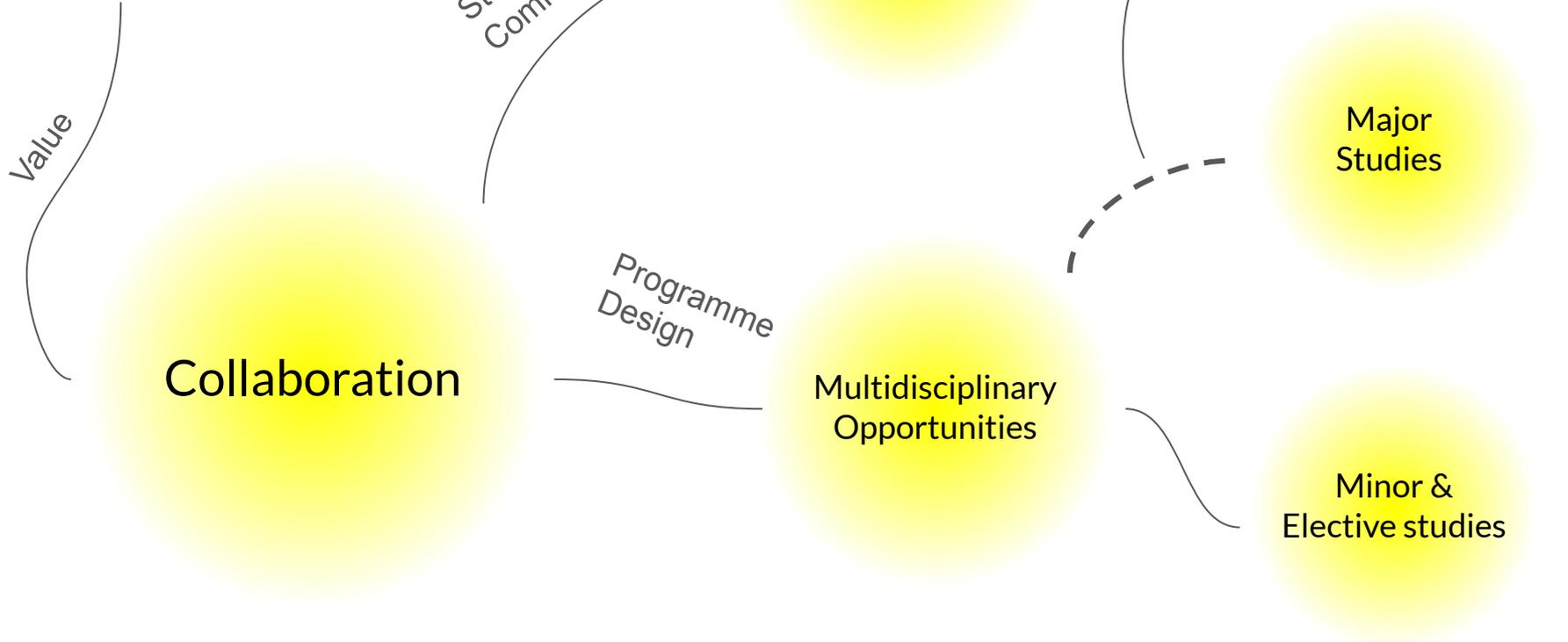
Programme
Design

Multidisciplinary
Opportunities

Major
Studies

Minor &
Elective studies

How can we practice
multidisciplinary learning
in our design major
courses?



spontaneous multidisciplinary environment

A platform where you can quickly and easily share your projects and get & give feedback, do collaboration with Aalto students in different fields, regardless of time and place

- Accessible to all Aalto members
- Reaching out to other disciplines - easy, quick, and cheap
- Exploring small and big student projects happening inside Aalto
- Making your own project more interesting and in-depth
- Giving birth to friendship, networks, community
- Looking your project from different angles

All listing types Grid List Map

ALL CATEGORIES

- ITEMS
- SERVICES
- RIKESHARE
- HOUSING/ACCOMMODATION
- JOB

Price

Min: 0 Max: 1000

[Update view](#)

Requesting

Looking for a place to stay

[Drazenko B.](#)

€62

Stage collar and soil

[Carl L.](#)

€50

50m2 loft in Eiv. Toik/Kemppi available in June

[Shawar B.](#)

Requesting

Looking for a studio apartment from August.

[Shawar B.](#)

€680 /month

A studio for rent in Korkeala

[Shawar B.](#)

Requesting

Looking for a furnished room from later July to September

[Viktor W.](#)

€20

Bed (IKEA)

[Matti M.](#)

€800 /month

A studio for rent in Korkeala

[Shawar B.](#)

[thefacebook] home search global social net invite faq logout

Mark Zuckerberg's Profile Puget Sound

Picture

Send Mark a Message

Poke Him!

Connection

This is you.

Mutual Friends

You have 19 friends in common with Mark.

Information

Account Info:

Name: Mark Zuckerberg

Member Since: The beginning (February 4, 2004)

Last Update: July 19, 2005

Basic Info:

School: Harvard

Status: Student

Sex: Male

Residence: Todd 311

Birthday: May 14, 1984

Home Town: Dobbs Ferry, NY

High School: Phillips Exeter Academy

Contact Info:

Email: mzuckerb@fas.harvard.edu

Screename: zberg02

Mobile:

A? Aalto-yliopisto
Aalto-universitetet
Aalto University

Welcome to Aalto University's research portal

Advanced search

Profiles

Research output

Datasets

Projects

Prizes

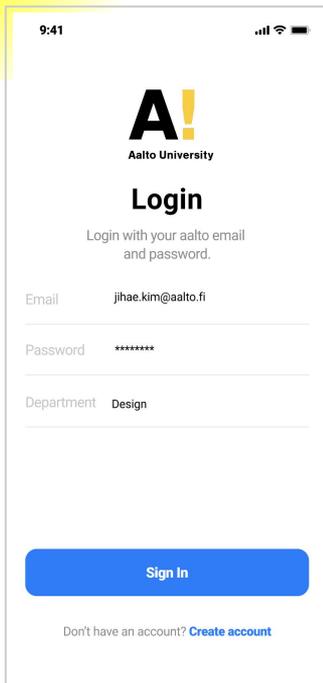
Activities

Press / Media

More



Share & Accelerate your project



9:41

A!
Aalto University

Login

Login with your aalto email and password.

Email

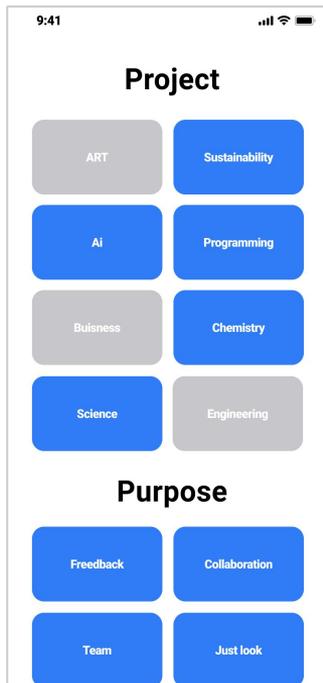
Password

Department

[Sign In](#)

Don't have an account? [Create account](#)

Login your aalto email



9:41

Project

ART Sustainability

AI Programming

Buisness Chemistry

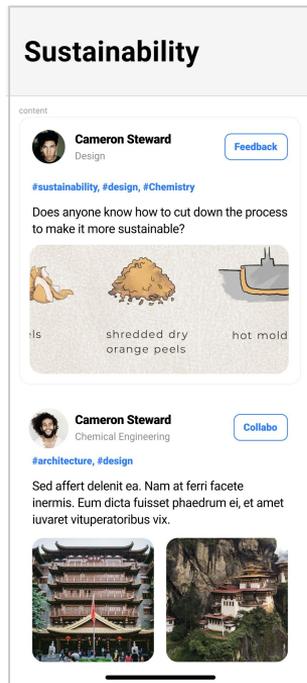
Science Engineering

Purpose

Feedback Collaboration

Team Just look

Select your interests



Sustainability

content

Cameron Steward
Design

[Feedback](#)

[#sustainability, #design, #Chemistry](#)

Does anyone know how to cut down the process to make it more sustainable?

peels shredded dry orange peels hot mold

Cameron Steward
Chemical Engineering

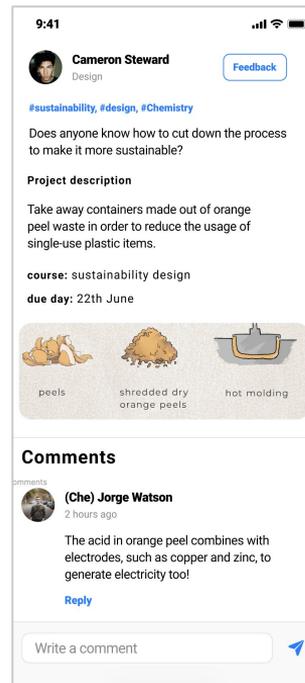
[Collabo](#)

[#architecture, #Design](#)

Sed affert delenit ea. Nam at ferri facete inermis. Eum dicta fuisse phaedrum ei, et amet iuaret vituperatoribus vix.



Explore projects in other fields



9:41

Cameron Steward
Design

[Feedback](#)

[#sustainability, #design, #Chemistry](#)

Does anyone know how to cut down the process to make it more sustainable?

Project description

Take away containers made out of orange peel waste in order to reduce the usage of single-use plastic items.

course: sustainability design
due day: 22th June

peels shredded dry orange peels hot molding

Comments

(Che) Jorge Watson
2 hours ago

The acid in orange peel combines with electrodes, such as copper and zinc, to generate electricity too!

[Reply](#)

Write a comment

Get & Write the Feedback
Do collaboration
Have a discussion
Find the team members!

Thematic Studio
Theme Proposal

From personal
milieu to structural
change

Suitability for
workshops

Design for Solidarity

Critical
thinking

Flexible for
different forms
of design

Rich in
literature

References - Political Design, Lu

<https://www.gapminder.org/>

Yuval-Davis, N. (1999). What is 'transversal politics'?. Soundings Special Issue: Transversal Politics. 12.

Yuval-Davis, N. (2006). Intersectionality and Feminist Politics. European Journal of Women's Studies, 13(3), 193–209. <https://doi.org/10.1177/1350506806065752>

Tatman, R., (2017). Gender and Dialect Bias in YouTube's Automatic Captions

Boehnert, J, Gaziulusoy, I, Lockton, D, Pettersen, I N & Sinclair, M 2019, Track 2.d Introduction : Power and politics in design for transition . in Conference Proceedings of the Academy for Design Innovation Management . 1 edn , vol. 2 , Academy for Design Innovation Management , London , pp. 286-289 , Academy for Design Innovation Management Conference , London , United Kingdom , 19/06/2019 . <https://doi.org/10.33114/adim.2019.2d>

Economist. (2021).The Big Mac index <https://www.economist.com/big-mac-index>

Roberto A. Fredman, Quartz, Ritche King, Quartz, and Quartz (2014). How Many Hours of Minimum Wage Work Does It Take to Earn a Beer? <https://www.theatlantic.com/international/archive/2014/02/how-many-hours-minimum-wage-work-it-takes-earn-beer/357833/>

Reshaur, K. (1992). Concepts of Solidarity in the Political Theory of Hannah Arendt. Canadian Journal of Political Science / Revue Canadienne De Science Politique, 25(4), 723-736. Retrieved June 3, 2021, from <http://www.jstor.org/stable/3229685>

Herzog, L. (2018). Durkheim on social justice: The argument from "organic solidarity". The American Political Science Review, 112(1), 112-124. doi:<http://dx.doi.org/10.1017/S000305541700048X>

Priestley, M., Stickings, M., Loja, E., Grammenos, S., Lawson, A., Waddington, L., Fridriksdottir, B., The political participation of disabled people in Europe: Rights, accessibility and activism, Electoral Studies, Volume 42,2016, Pages 1-9, ISSN 0261-3794, <https://doi.org/10.1016/j.electstud.2016.01.009>

References - Cultural solidarity, Dina

Universal Declaration on Cultural Diversity © UNESCO 2002

Petrykivka decorative paintings. Photo from : <https://birdinflight.com/ru/reportaj/zalozhili-ornament-puteshestvie-na-rodinu-petrikovskoj-rospisi.html>

Dive into intangible cultural heritage! Threats. UNESCO <https://ich.unesco.org/en/dive&display=domain#tabs>

Examples FAINA and Ifassen and found in <https://ecc-italy.eu/exhibitions/2019venicedesign>

Faina collection by Viktoriya Yakusha <https://faina.design/>, <https://designwanted.com/design/faina/>

Crafted bags from recycled plastic bags <https://www.ifassen.com/en/>

Pasta Grannies project <https://www.pastagrannies.com/>, <https://www.instagram.com/pastagrannies/>

Feminist Culture House <https://feministculturehouse.org/>

Korpikaivo-Tamminen Laura, suunnittelija. Ryijy. 1966-1967 https://www.fnna.fi/Record/musketti_lpmuseot.M40:KTMKTEE5:

Rag rugs photo. ManipulatinMae, CC BY-SA 3.0 <<https://creativecommons.org/licenses/by-sa/3.0/>>, via Wikimedia Commons.
https://commons.wikimedia.org/wiki/File:Manufactured_Rag_Rugs-2013-08-05_01-37.jpg

Opishnya village pottery

https://uk.wikipedia.org/wiki/%D0%A4%D0%B0%D0%B9%D0%BB:%D0%9E%D0%BF%D1%96%D1%88%D0%BD%D1%8F_%D0%9E%D1%80%D0%BD%D0%B0%D0%BC%D0%B5%D0%BD%D1%822.JPG

Ukrainian pysanka photo. Lubap, CC BY-SA 4.0 <<https://creativecommons.org/licenses/by-sa/4.0/>>, via Wikimedia Commons.
https://commons.wikimedia.org/wiki/File:Ukrainian_Pysanka_with_Birds.jpg

References - Traditions & Belonging, Elina

https://d1wqtxts1xzle7.cloudfront.net/58068046/2012_IntJourArchResea_SkyscraperandPlacemakingSupportingLocalCultureandIdentity.pdf?1545872707=&response-content-disposition=inline%3B+filename%3DSKYSCRAPERS_AND_PLACEMAKING_SUPPORTING_L.pdf&Expires=1622637184&Signature=Z99cGbG5N9lunRuK~zgNQEBJqYDFw5u0WLA3rXG82~ilVwZKMrpZ0rI-o0uVs7UTuOtFc3TQAcqo6BHaeNqS9yf4M2M8WZyxkUPKQuOe1BysWSnAwZ67KwvrPQb92tzIXq7WLFmzWM5eQZT7u08P1SZe3tAot6TvM0XsMR~7~lksq1Ht-K1v17ukw9PHhmZjRPZ2IZE3ZxDYcTf1zuX-E9wtVy6rCnhzs9fHwCO75pVg4-Jk8n8jscEhzOM7IB-Vo4EMGbZZADiiYJwSOQ6~Q-UOlixk4yIAQoyfYB5yJ~73ukXpBI9Vu~mnrINvUqWhJ2et5FcyXcrPJUejfrw__&Key-Pair-Id=APKAJLOHF5GGSLRBV4ZA

http://static.davidreport.com/2011/04/dr_2011_13_1.pdf

<https://kakawdesigns.com/>

Design roots: culturally significant designs, products, and practices

References - Multi-species solidarity, Carlotta

- Roudavski, S. (2020) Multispecies Cohabitation and Future Design, in Boess, S., Cheung, M. and Cain, R. (eds.), Synergy - DRS International Conference 2020, 11-14 August, Held online. <https://doi.org/10.21606/drs.2020.402>
- Szu-Yu (Cyn) Liu. 2019. Designing for Multispecies Collaboration and Cohabitation. In Conference Companion Publication of the 2019 on Computer Supported Cooperative Work and Social Computing (CSCW '19). Association for Computing Machinery, New York, NY, USA, 72–75. <https://doi.org/10.1145/3311957.3361861>
- Valiente-Riedl, Elisabeth, Towards Multispecies Solidarity: Individual Stories of Learning to Consume Ethically, *Animal Studies Journal*, 8(2), 2019, 113-132. Available at: <https://ro.uow.edu.au/asi/vol8/iss2/9>
- Morton, T. (2017). Humankind: Solidarity with nonhuman people. <https://nonhuman-nonsense.com/mosquito-translator>
- Barla, J., & Hubatschke, C. (2017). Technoecologies of borders: Thinking with borders as multispecies matters of care. *Australian Feminist Studies*, 32(94), 395-410. doi:10.1080/08164649.2017.1466648
- Bazzul, J. Solidarity with nonhumans as an ontological struggle. *Educational Philosophy and Theory*, ahead-of-print(-), 1-10. doi:10.1080/00131857.2020.1804360
- King, A. D. K. (2017). Animals, work, and the promise of interspecies solidarity. *Labour*, (79), 307-310. Retrieved from ABI/INFORM Collection, Canadian Business & Current Affairs Database, Social Science Premium Collection database. Retrieved from <https://www.proquest.com/scholarly-journals/animals-work-promise-interspecies-solidarity/docview/1910739134/se-2?accountid=27468>
- Lainé, N., & Morand, S. (2020). Linking humans, their animals, and the environment again: A decolonized and more-than-human approach to "one health". *Parasite (Paris)*; *Parasite*, 27, 55. doi:10.1051/parasite/2020055
- Moore, L. J., & Kosut, M. (2014). Among the colony: Ethnographic fieldwork, urban bees and intra-species mindfulness. *Ethnography*, 15(4), 516-539. doi:10.1177/1466138113505022
- Tschakert, P. (2020). More-than-human solidarity and multispecies justice in the climate crisis. *Null*, , 1-20. doi:10.1080/09644016.2020.1853448

Sources

<https://hipporoller.org>

<https://proximitydesigns.org/>

[https://socialsci.libretexts.org/Bookshelves/Sociology/Introduction_to_Sociology/Book%3A_Sociology_\(Boundless\)/06%3A_Social_Groups_and_Organization/6.06%3A_Social_Structure_in_the_Global_Perspective/6.6A%3A_Durkheim%E2%80%99s_Mechanical_and_Organic_Solidarity](https://socialsci.libretexts.org/Bookshelves/Sociology/Introduction_to_Sociology/Book%3A_Sociology_(Boundless)/06%3A_Social_Groups_and_Organization/6.06%3A_Social_Structure_in_the_Global_Perspective/6.6A%3A_Durkheim%E2%80%99s_Mechanical_and_Organic_Solidarity)

https://en.m.wikipedia.org/wiki/Kamppi_Chapel

<https://superflux.in/index.php/work/refuge-for-resurgence/#>

<https://www.inverse.com/article/20840-how-3d-printers-are-saving-lives-in-remote-parts-of-the-world>

<https://superflux.in/index.php/work/mangala/#>

<https://www.un.org/esa/documents/Development.and.Conflict2.pdf>

<https://www.tandfonline-com.libproxy.aalto.fi/doi/full/10.1080/08164649.2017.1466648>

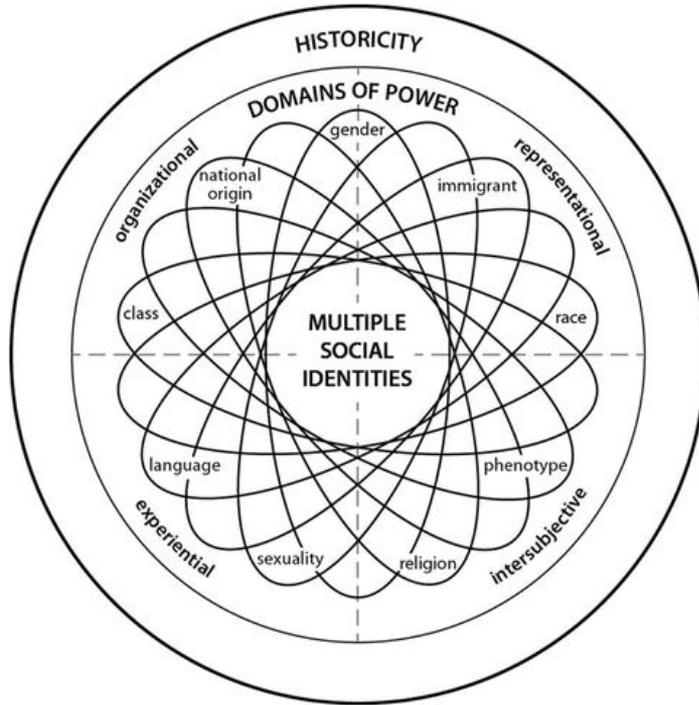
https://www.appropedia.org/Hexayurt_mass_evacuation#Shelter_for_One_Million_Families

<https://minerva-access.unimelb.edu.au/bitstream/handle/11343/241799/DRS%202020%20-%20Multispecies%20Co-habitation%20and%20Future%20Design%20-%20DISTRIBUTION.pdf>

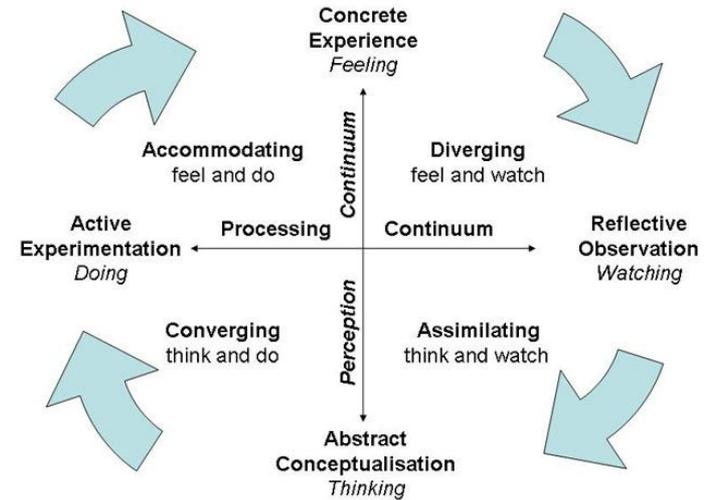
<https://www.cambridge.org/core/journals/canadian-journal-of-political-science-revue-canadienne-de-science-politique/article/abs/concepts-of-solidarity-in-the-political-theory-of-hannah-arendt/AB4FDC2A514908BD59BC44A78A3C0566>

<https://www.fold.lv/en/2021/03/transforming-nowhere-into-a-place-gardens-of-sporta-pils/>

Appendix



An intersectionality framework used in higher education



Kolb's Learning Styles and Experiential Learning Cycle

https://link.springer.com/chapter/10.1007/978-94-017-8005-6_2

<https://www.simplypsychology.org/learning-kolb.html>