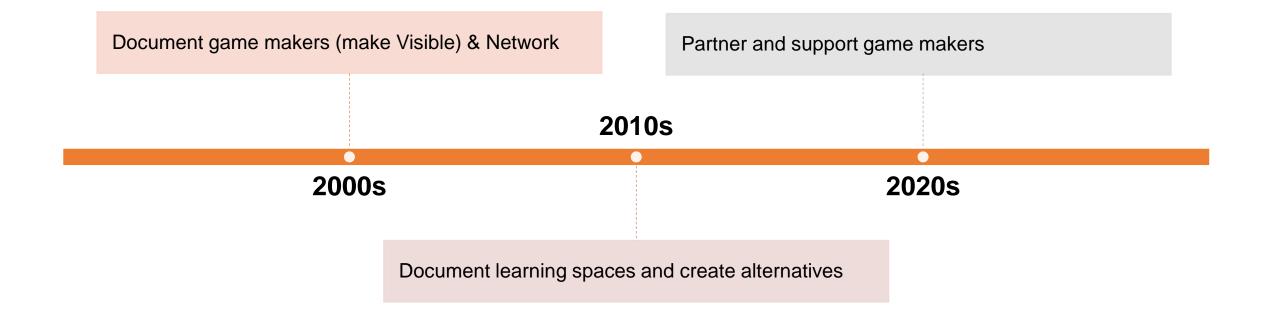




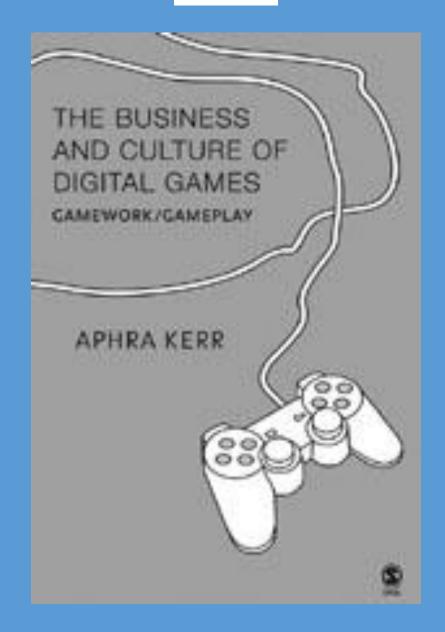
Outline

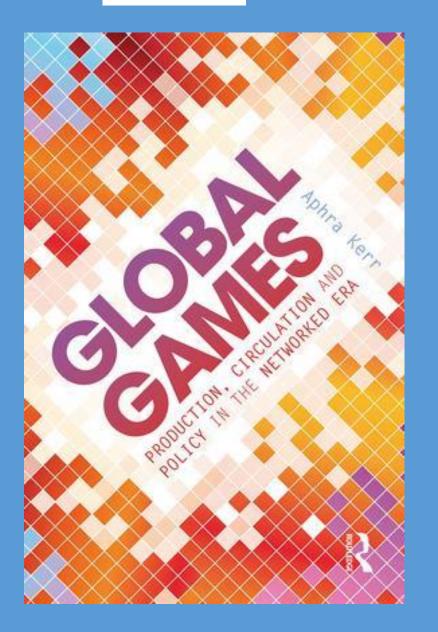
- Background
- Games and Learning approaches
- Projects: ReFiG, Bias and Algowatch
- Algowatch Project Walkthrough

20 yrs + in games research



2006 2017





Digital Game-Base Learning





Game Based Learning



JAMES PAUL GEE

Science Confederate Confederat

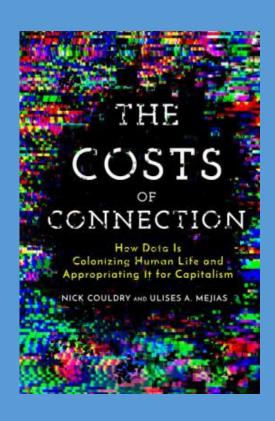
Digital Games for Empowerment and Inclusion (2013)

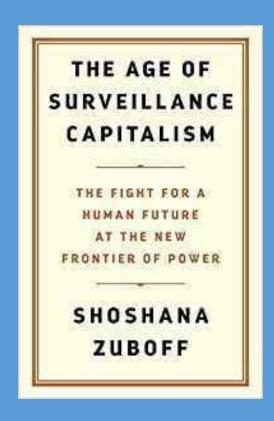
Meaningful or Applied Games.

'The use of game techniques, genres and technology to design tools and products used specifically for non-leisure ends, such as defence or education. Difficult to produce since it requires integration of expertise in 'serious' application domain with expertise in producing 'good' games. Though hotly debated, there is widespread use of the term serious games and identification of a serious game market and industry.' (pg 22)

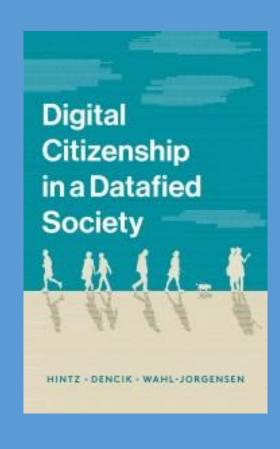


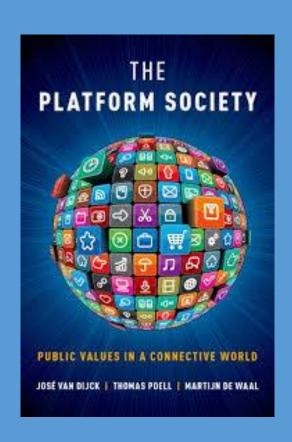
Data Colonialism or Surveillance Capitalism?





Digital Inequalities and Public Values



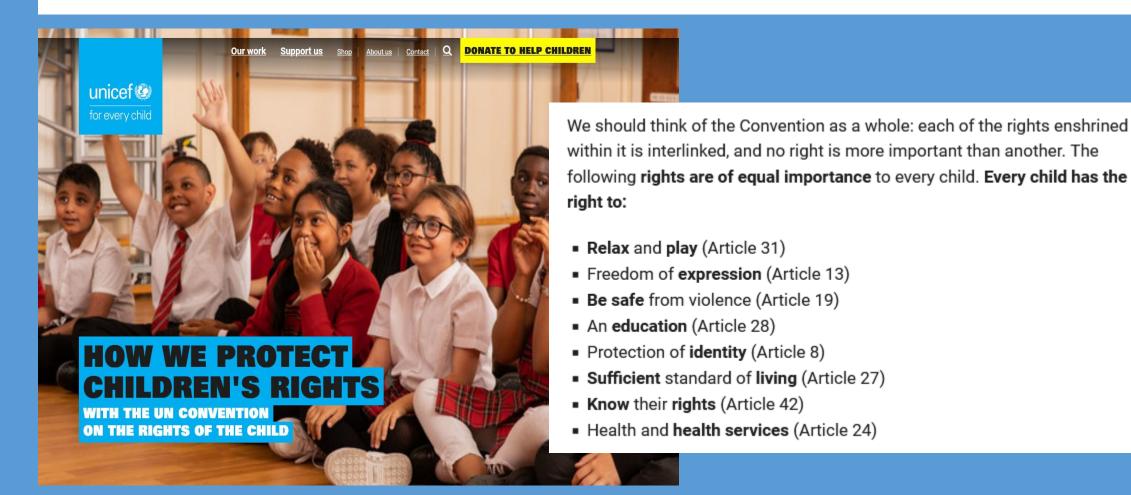


7 Playful By Design Principles — Pothong, Livingston and Colvert

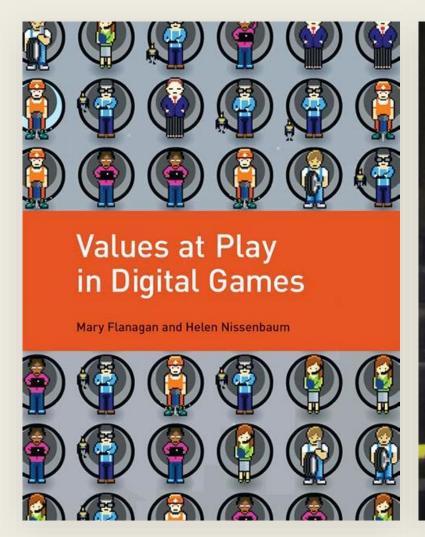


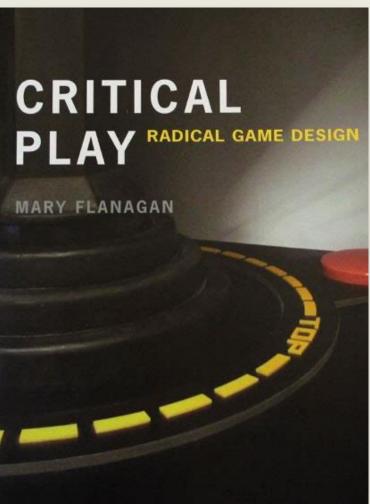
Each principle combines the digital features that should be dialled up or down to afford the qualities of free play that both children and experts value.

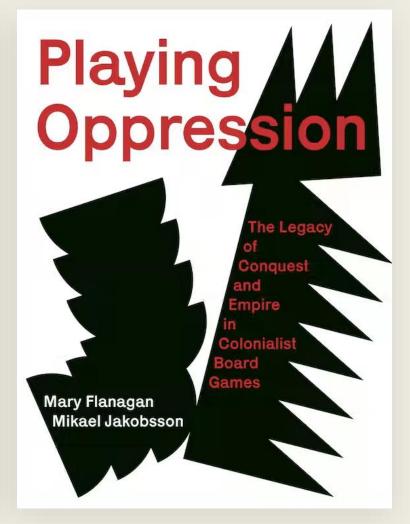
Childrens Rights and Play



maryflanagan.com







Train (2009)

brenda romero

CORE WORK BIO & AWARDS LUDOGRAPHY SPEAKING CONTACT SHOP

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TRAIN

Train is a critically acclaimed and award-winning game. Train explores complicity within systems. It also asks two questions, "Will people blindly follow the rules?" and "Will people stand by and watch?"

Game Designer: Brenda Romero

Release Date: April 29, 2009

- Design Confidante and Sounding Board: Ian Schreiber
- Testing: Christopher Schmidt, Michelle Menard, Laura Beukema, Ian Schreiber, Darren Malley, Tyler Hawley
- Thanks to: lan Schreiber, John Sharp, lan Bogost, John Romero, David Dirlam, Rabbi Belzer, Steve Meretzky, David Fox, Dan Cook, Jason Rohrer









Example 1: Creating more diverse game making cultures











ALTERCONF

about

AlterConf was a traveling conference series that provided safe opportunities for marginalized people and those who support them in the tech and gaming industries.







Events and Awareness raising, Ireland



Women in the Irish Games industry event,
International Women's Day, Dogpatch Labs, Dublin, March 2016

Family Unplugged Game design event, Inspirefest, July, 2016, & June 2017 Dublin.







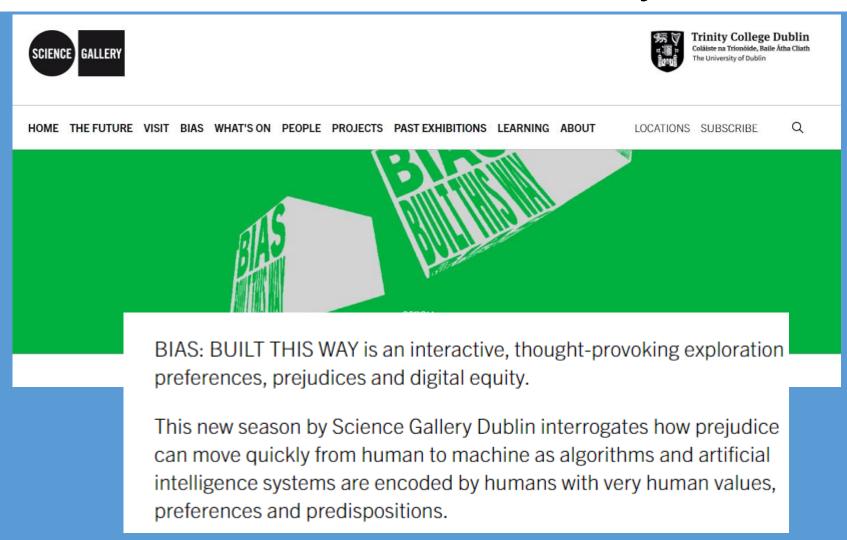


ReFiG research final report 2020





Example 2: Artistic collaborations Bias Exhibition – Science Gallery Dublin, 2021



What's it like to be a human worker in a world designed for algorithms?

Caroline Sinders, Aphra Kerr & Karl Hohn

Social media companies process billions of posts on any given day. They use AI to automate the screening and moderation of this material, but still rely on human moderators to validate and ensure the accuracy of the algorithm. This approach seems to offer the best of both worlds - the speed of AI and the eye of context and meaning of a human - but what is the experience of the human worker in a system designed to function at the speed of AI? This interactive game draws attention to the high-pressure working environment many content moderators experience on the job.

Commissioned by Science Gallery Dublin and created with ADAPT, the Science Foundation Ireland Research Centre for Al Driven Digital Content Technology.

ABOUT THE ARTISTS

Caroline Sinders is a machine-learning-design researcher and

artist. Aphra Kerr is a Professor at the Department of Sociology at Maynooth University and a Co-PI at the ADAPT Centre for Digital Media Technology. She is the scientific lead of the Transparent Digital Governance strand. Research assistance was provided by Melina Garcia, Ciara Hogan and Joi Neuda. Karl Hohn is a developer, artist, musician, and educator based in Brooklyn. Special thanks to Anastasia Clarke for music and sound effects.







https://algowatch.eu/

Algowatch.eu



HOME PROJECT → NEWS AND EVENTS

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Commission

ALGOWATCH is a European funded project which started at the **end of 2023** and will run for **two years**.

It aims to **improve literacy** about the influence of algorithms and Artificial Intelligence (Algo- and Alliteracy) in our everyday lives.

It will co-create, develop and adapt quizzes, games and an exhibition to work in different European contexts.









Partners – France, Ireland, Croatia, Portugal

Evolving MIL competencies – Frau-Meigs, D. (2024a) UNESCO & (2024b)





User empowerment through Media and Information Literacy responses to the evolution of Generative Artificial Intelligence (GAI) **Production & Context**

Knowledge

Skills

Attitudes

Values

Competence Framework on website



OTHER RESOURCES

Référentiel de compétences EMI en Algo-IA littératie

A partir de 13 ans et plus! Version 1.0 – Juin 2024 DOWNLOAD | PDF (295KB)

MIL competence framework in Algo-Al literacy

From age 13 and more! Version 1.0 – June 2024 DOWNLOAD | PDF (295KB)



at IAMCR in New
Zealand

JULY 9, 2024



Project meeting in Lisbon

JUNE 5, 2024



Media and AI literacy is everyone's mission

MARCH 16, 2024

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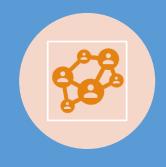
https://algowatch.eu/resources/

Target Groups



1st Target group

Youth (15+) in the schools and outside schools, as they represent the highest potential gains.



2nd Target group

Mediators and replicators (including administrators in museums and youth organizations) to reach out to larger audience (adults, seniors, migrants).

The MU team 2023 (according to GenAI)







Emma



Jean

Algorithms and AI Co-creation session



https://algowatch.eu/



Three co-creation sessions completed (IRL)

- 1. **Dublin** Educate Together, no religious ethos, mixed boys and girls school, capital city. (N=32, 15-17 years) 1 hour
- 2. **Maynooth** Community School, multi-denominational, mixed boys and girls school, small town, (N=60, 15-16 years) 1 hour
- Portlaoise Youth Group, mixed, large town (N=8, 13-17 years) 1.5 hours

4 themes/stories in main game

- Democracy and Citizenship
- Climate Change
- Health and Wellbeing
- Online Relationships

Principles

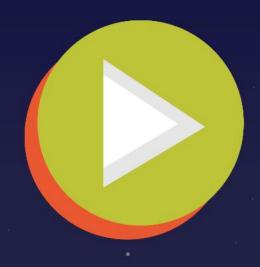
- 1. Co-design with young people, age appropriate
- 2. No advertising or datafication
- 3. Access via browser, no installation
- 4. Open ended and self paced
- 5. Adventure, puzzles, rewards.
- 6. Attend to safety and data privacy
- 7. Playtest and iterate
- 8. Pre and post test, evaluate
- 9 Four languages
- 10 Resources for use in different contexts social aspects of learning as well as individual/cognitive.



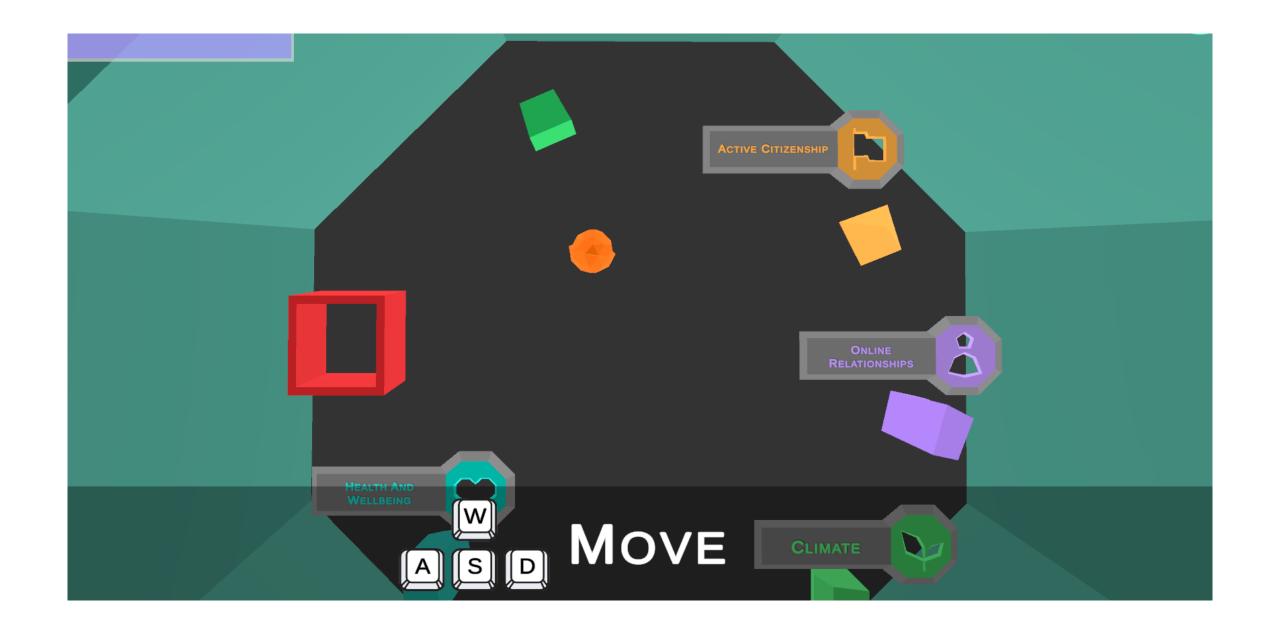
ALG, OSWATCH







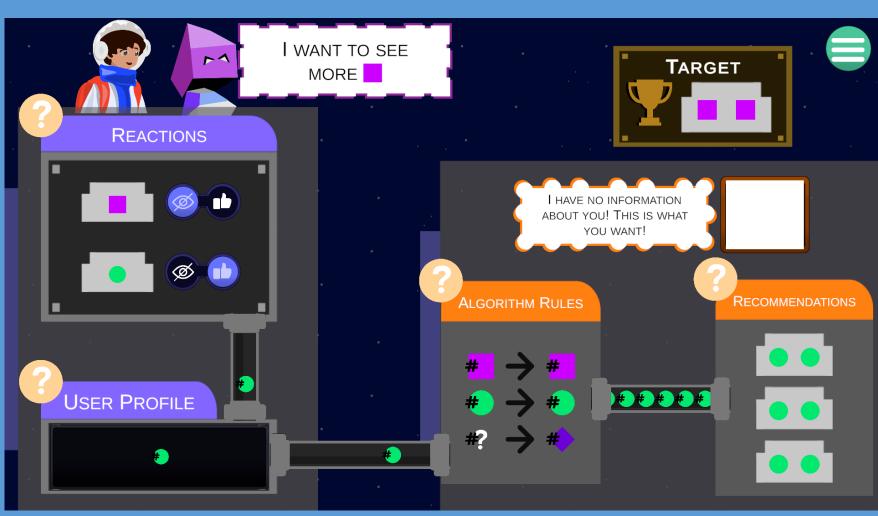






Minigame mode





Next Steps - 2025

- 1. Testing and iterating Dec./Jan.
- Training teachers, intermediaries Feb and Voices, Zagreb
- 3. Evaluation pre and post testing in schools March
- 4. Exhibition April

Thank you

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http://mural.maynoothuniversity.ie/
[open access to most publications]

Diversity in the Industry 2014

