

Coding the Printed page

Impacts of the research one year on, and what the future may hold

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Area of research

An exploration into creative coding as a means of producing variable digital print.

- This led to the creation of HP Spark by digital print manufacturer HP Indigo.
- The first materials showcasing this approach were launched July 2022.



Area of research

This presentation is focused on the impacts of furthering this approach over the last year:

1. Research activities and impacts
2. How this fits into the wider context of “creative” technologies
3. The future

1. Research activities and impacts

Research activities

The research activities:

1. Workshops (education/participation)
2. Designed materials

Activities

Workshops

Over the last year I have delivered:

- 13 Workshops, to
- 300 participants (approx.)

Participants included:

- 16/17 year olds (as part of UAL Insights)
- Undergraduate and postgraduate students across Publishing, Graphic Design and Illustration courses
- Design agencies and organisations associated with print...

Activities

Workshops



GF Smith employees attending one of my workshops at FE Burman

Activities

Workshops

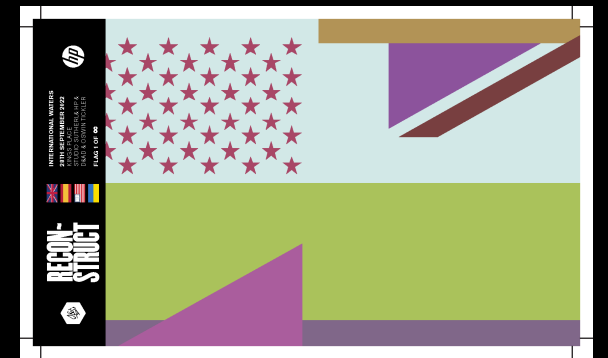
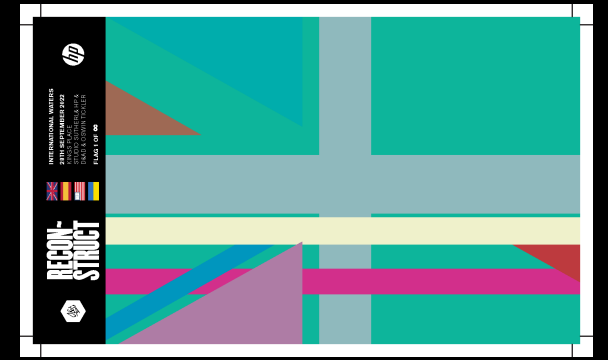
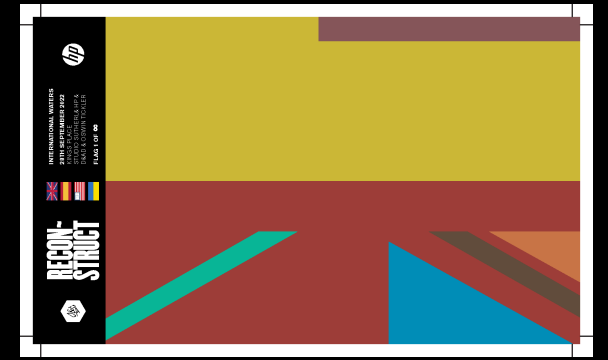
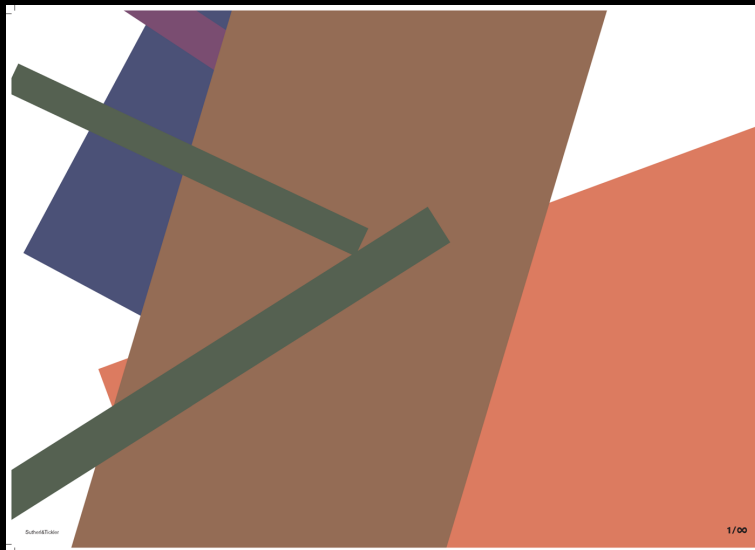
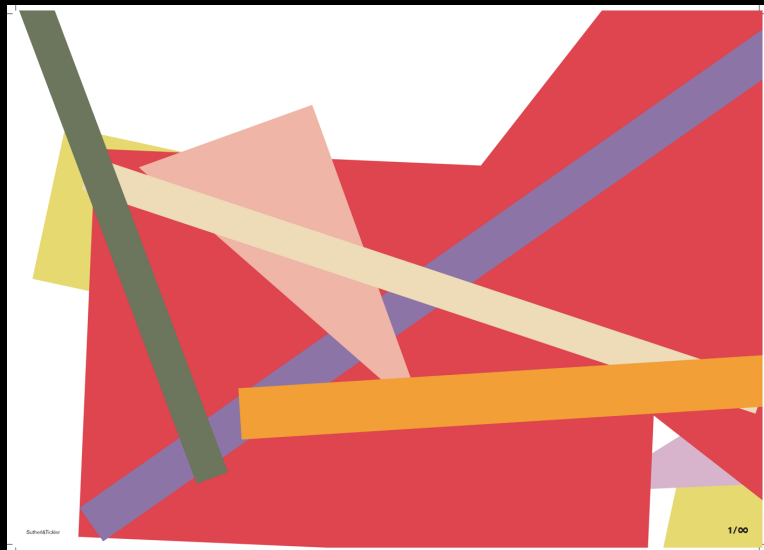
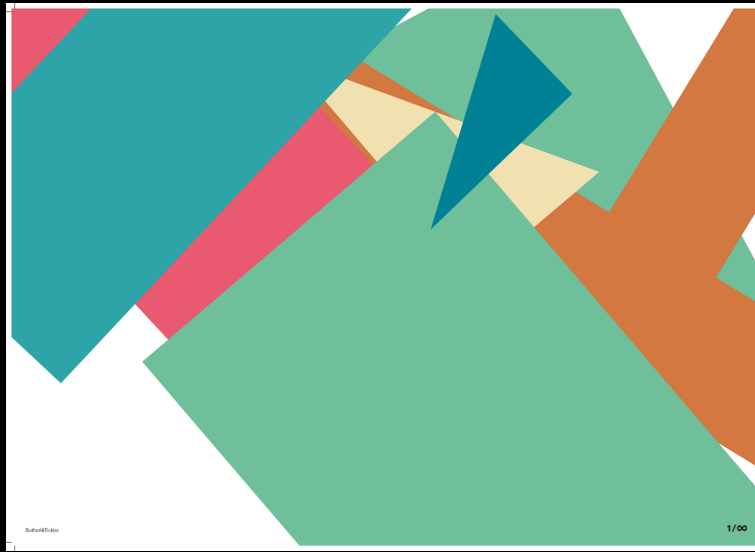
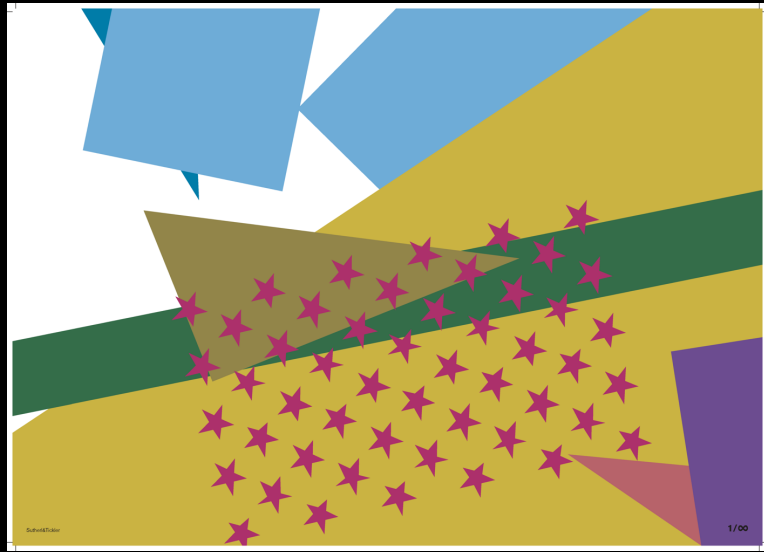


Students exploring creative coding

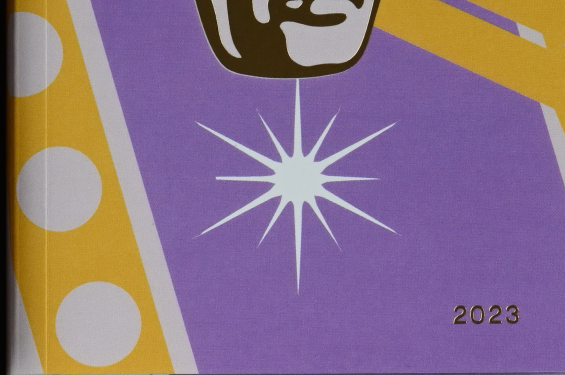
Randomness assigns value to everything and everyone it touches by giving each participant equal weight: everything is equally valuable. In this, randomness is inherently political and inherently empowering...each and every thing matters; everyone matters.

Ways of Being. James Bridle





D&AD 'Reconstruct' materials (posters and can labels).



Bafta Film Awards Brochures





The image shows a white award cover for the BAFTA Television Awards. It features a stylized golden bust of a man's head in the center, surrounded by colorful, abstract shapes and icons. The text 'BAFTA TELEVISION AWARDS' is visible on the right side of the cover.

BAFTA @BAF... · 14/05/2023 ...
Following the #BAFTATVAwards with @pandocruises at home?
Check out the digital version of...

8 13 41 53.6K



The image shows a teal award cover for the BAFTA Television Craft Awards. It features a stylized golden bust of a man's head in the center, surrounded by colorful, abstract shapes and icons. The text 'BAFTA TELEVISION CRAFT AWARDS' is visible on the left side of the cover.

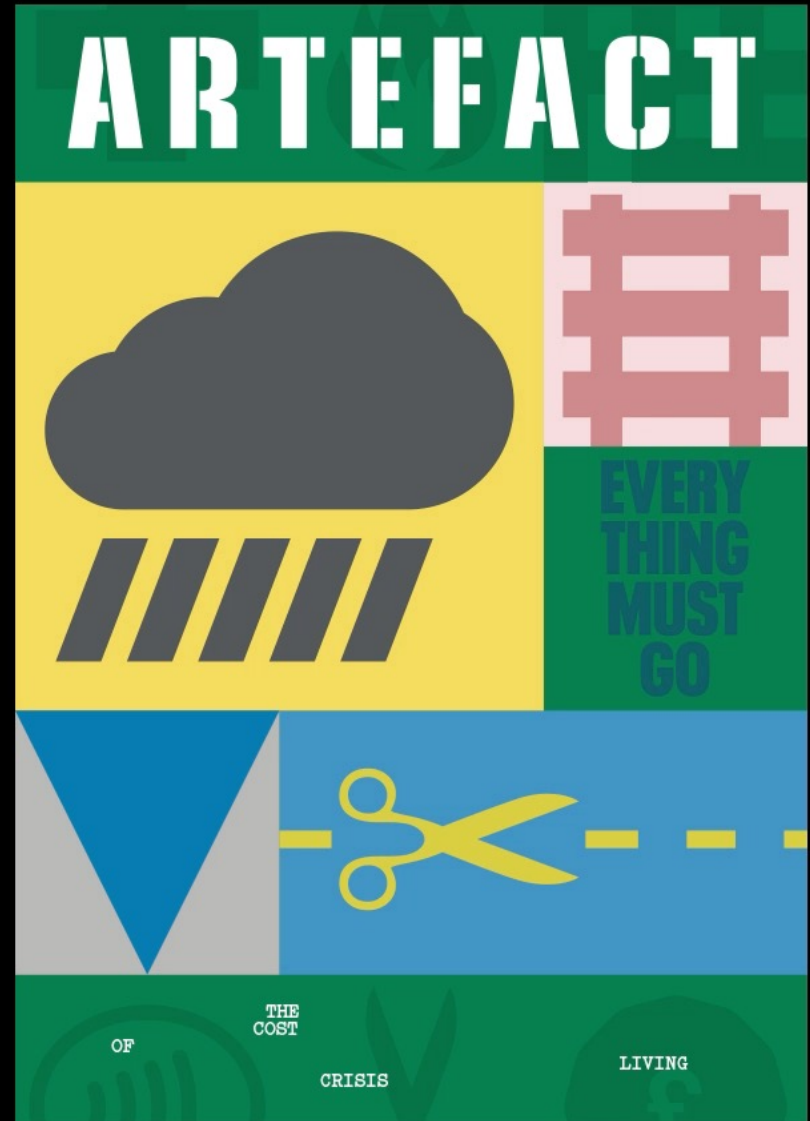
BAFTA @BAF... · 23/04/2023 ...
Following the #BAFTACraftAwards at home?
Check out the digital version of...

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for the subsequent BAFTA awards, the covers were also used as animated gifs across their social media campaigns.

Activities

Designed materials



Artefact magazine. London College of Communication
'The cost of living crisis' Issue. (1000 unique covers)

Impact:

Workshops

- Increased engagement. Participants spend longer looking at, choosing, and discussing their preferences.
- Helps participants overcome fear in relation to software and coding. De-mystifies. Encourages continued learning beyond session.
- Enthusiasm for working in innovative ways.
- Participants work individually but with a collaborative output.
- Participants support/teach each other.

Impact

Designed materials

“Your work has been instrumental to the creative this year for the brochures and they caused a lot of excitement at each award. It also helped us increase pick up overall which is one of our big aims with sustainability in mind and wanting to reduce waste.”

Abigail Bills, BAFTA, Designer

Impact

Designed materials

- Increased engagement with print.
- Reduced waste.
 - Digital printing allows you to print only what you need.
 - Increased desirability minimizes copies being discarded/ignored.
- Diversity:
 - Artwork can be generated by a variety of people (regardless of skills) and their work can be utilized without bias.
 - Sense of diversity of output from the organization (e.g. BAFTA)
- Closer relationship between print and digital assets/campaigns than previously possible.

Impact:

“We see this kind of technology as being the future of the [paper and print] industry.”

Vanessa Fletcher, GF Smith, Education Manager

Impact

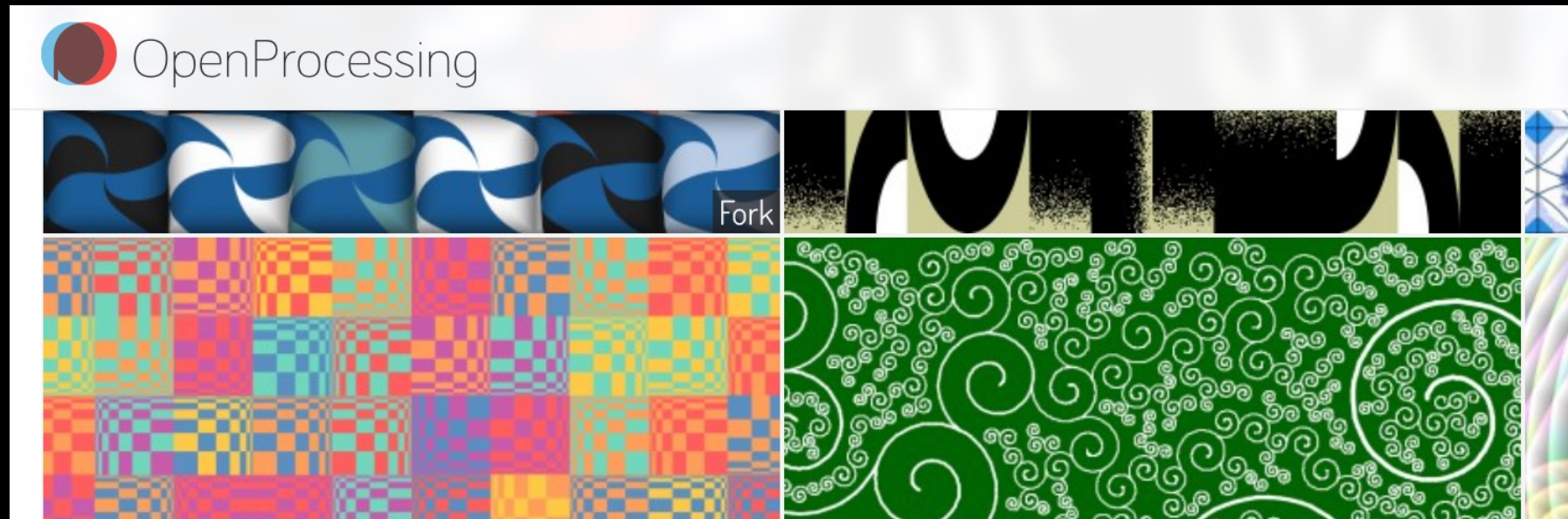
- Invited to be part of the British Printing Industries Federation Education steering group.
- (Long term) Assisting with LCC's Capital Investment bid for an HP Indigo press in the new building.
- (short term) Assisting with a formalising of LCC's relationship with FE Burman giving students access to variable digital print.
- Interviewed for latest edition of *'Editorial design: digital and print'* by Cath Caldwell. Laurence King. (2024)

2. How this fits within the wider context of “creative” technologies

Wider technological context

Open-source communities

- HP Spark is built using the open source language p5.js there is a community of existing users – albeit working for screen.
- Websites share code to explore, modify and troubleshoot.
- Free code editors & teaching resources.



Wider technological context

Artificial Intelligence

While HP Spark isn't an example of AI, it shares similarities with the basic building blocks:

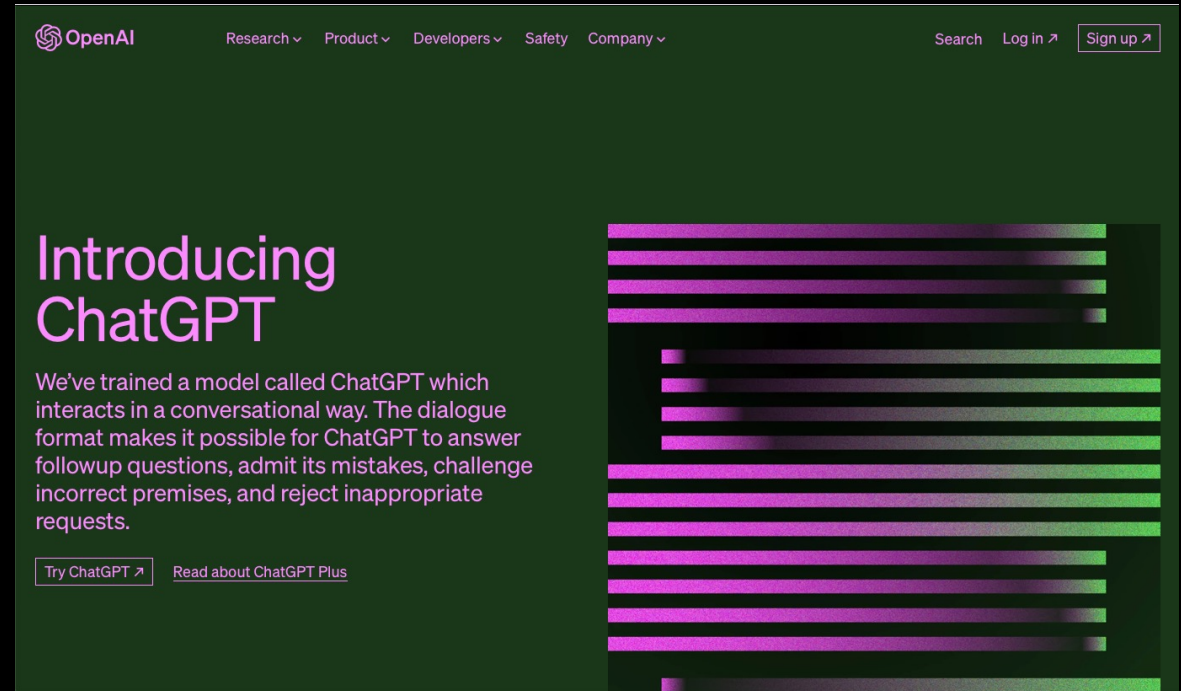
Algorithms + data = output

AI is created from complex combinations of algorithms and very large data sets from which the system “learns”.

Wider technological context

Artificial Intelligence

- ChatGPT can be used to write/generate P5.js code from text prompts.
- May help reduce the barriers to learn coding, or provide shortcuts so less time is spent writing code.
- It can produce iterations from the same prompts – possibly useful part of the process?



3. The future

The future

Challenges

- Time: to continue exploring new approaches (workshops + clients).
- Money: Currently rely on favours regarding printing and paper to help me demonstrate developments.
- Other than HP Indigo's team, I am the only designer in the world working in this way at the moment (pressure + bottleneck).
- Increased additional commitments.
- I don't have control over how HP Indigo license the software.

The future

Opportunities

- Interest from Penguin Random House (among others), in relation to both workshops and designed materials.
- Discussing partnering with paper manufacturer GF Smith delivering workshops and connecting universities and local printers (PSPs).
- In talks with universities + organisations about further lectures and workshops.
- Potential funding available in relation to paper being a “foundation industry”.

The future

Areas of further development

- Further exploration of AI in relation to creative coding and the software (alongside ethical implications).
- Development of future workshops – these seem a good way of people getting to grips with the process and coding, and how it connects into other areas of interest/business.
- Continued exploration + experimentation
 - Currently exploring this from the perspective of “*paper as interface.*”

Thank you.

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