

# Materiality on the Web

So Jung Yoon and Lucy Pham

# ma·te·ri·al·i·ty

/mə'tirē'älədē/

*noun*

the quality or character of being material or composed of matter.

## print.js

Print.js was primarily written to help us print PDF files directly within our apps, without leaving the interface, and no use of embeds. For unique situations where there is no need for users to open or download the PDF files, and instead, they just need to print them.

There are four print document types available: 'pdf', 'html', 'image' and 'json'.

The default type is 'pdf'.

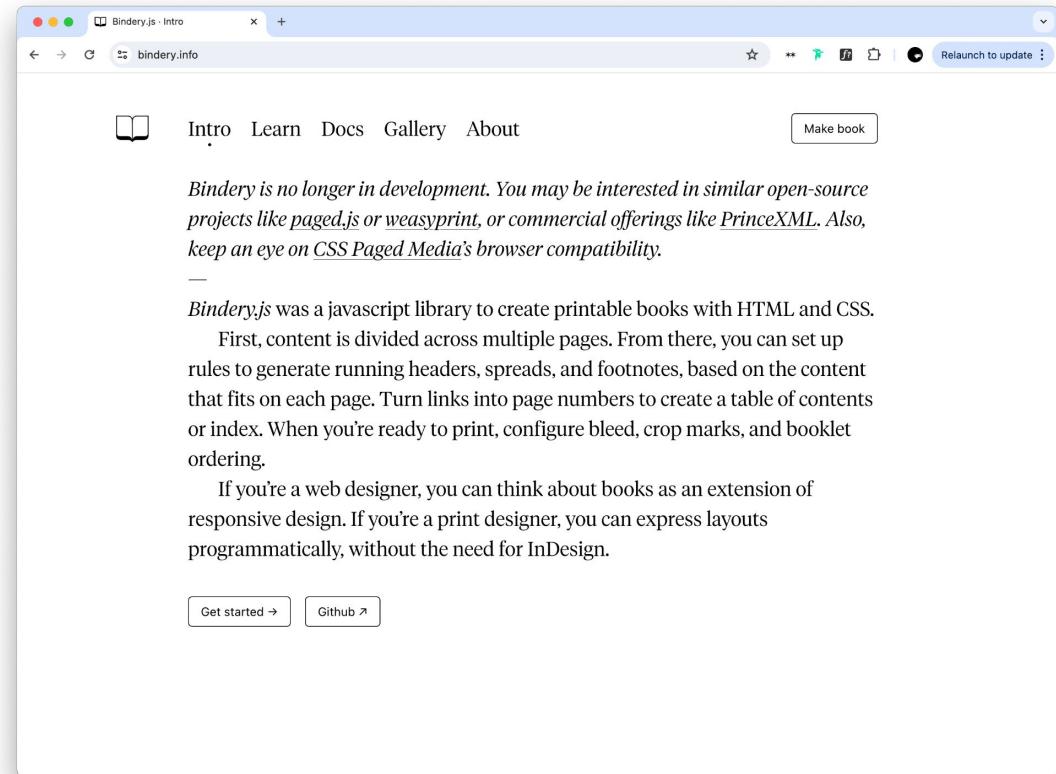
Code as Creative Medium

## Bindery.js

Bindery relies on your browser's PDF generation. (Bindery is no longer in development.)

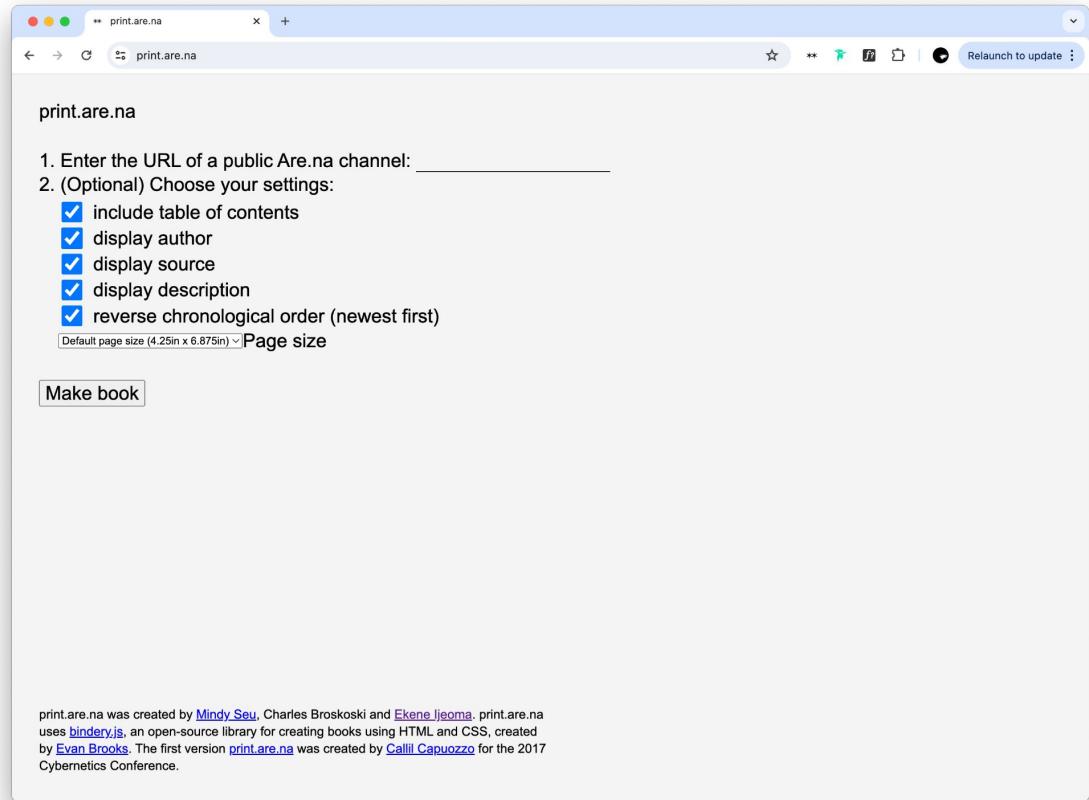
**Bindery.js 1.0** was developed in Spring 2014 for *for/with/in*, a publication from participants in the graphic design course *HTML Output* at RISD.

**Bindery.js 2.0** has been developed since February 2017 by Evan Brooks. It has been rewritten from scratch to be smaller, faster, more flexible, and more robust. (With thanks to John Caserta and Teddy Bradford for contributions and feedback.)



→ Books & tools made with bindery.js

: print.are.na



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The screenshot shows a web browser window for the Are.na platform. The URL is [are.na/minkyung-kim/readings-titvq4asfz8](https://are.na/minkyung-kim/readings-titvq4asfz8). The page title is "Readings | Are.na". The main content area displays the "Readings" channel for Minkyung Kim. The channel has 14 followers. A message in the center states: "You've reached your block limit. Upgrade to a Premium to get unlimited blocks, reader mode, table view and more." Below this message are four thumbnail previews of posts:

- Square Pixel Inventor Tries to Smooth Things Out**: A post by Square Pixel Inventor featuring a black and white portrait of a person and text about a smoothie.
- What impact is AI having on entry-level and junior creative jobs?**: A post by LeMonde with a blue background and text about AI's impact on creative jobs.
- WILL AI BECOME THE NEW MCCARTHY?**: A post by LeMonde with a blue background and text about AI's impact on creative jobs.
- I probably missed something important in the conversation**: A post by LeMonde with a colorful abstract background and text about a conversation.

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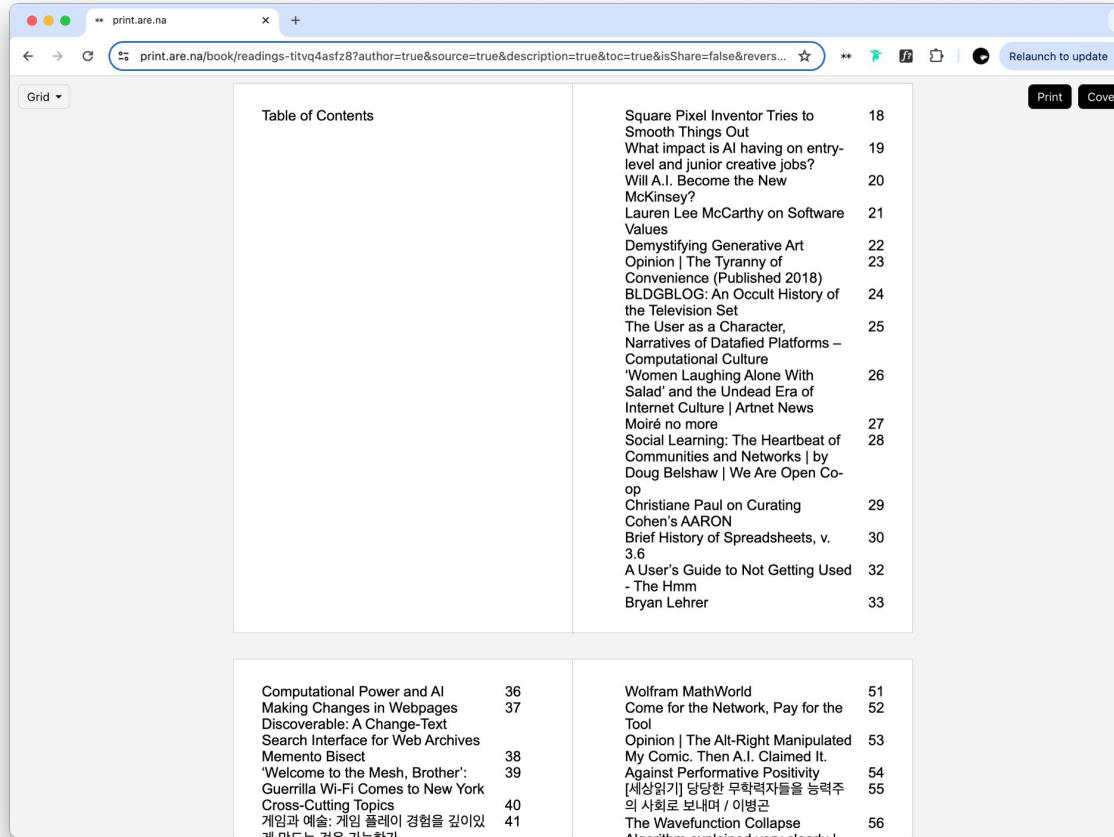
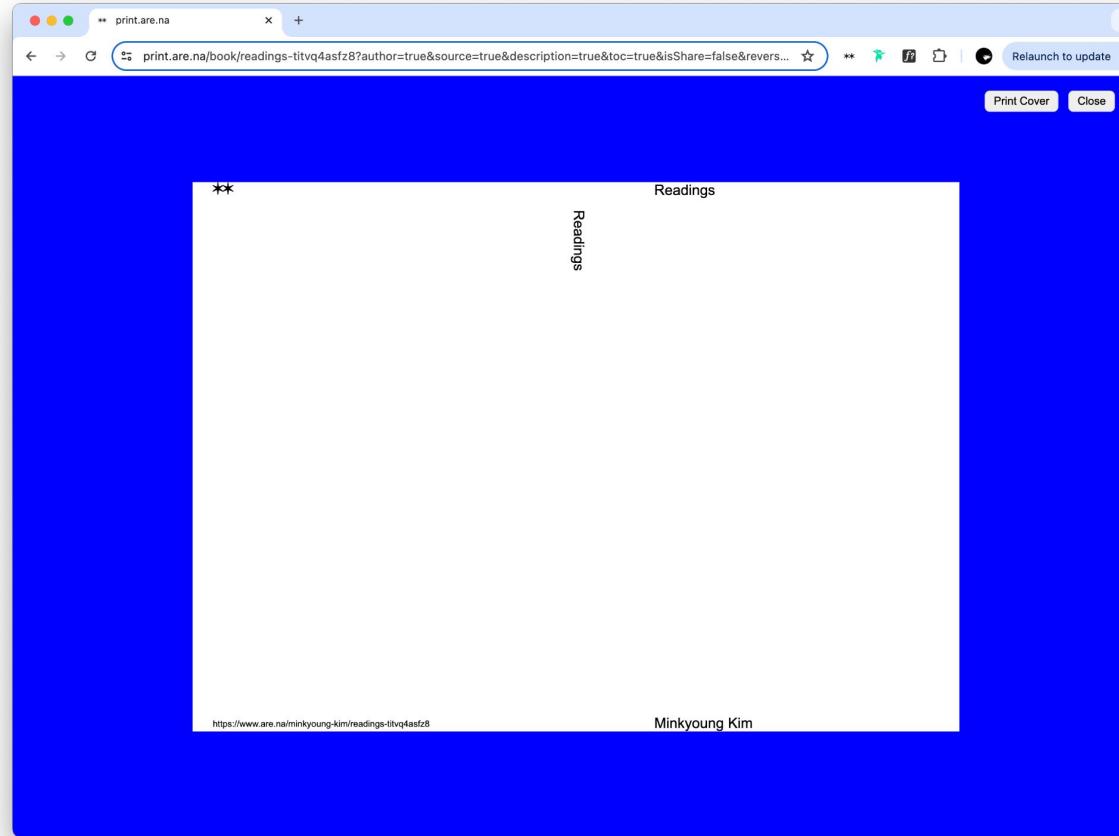


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# THE SCULPTURES OF THE ROMAN *VILLA* OF CHIRAGAN

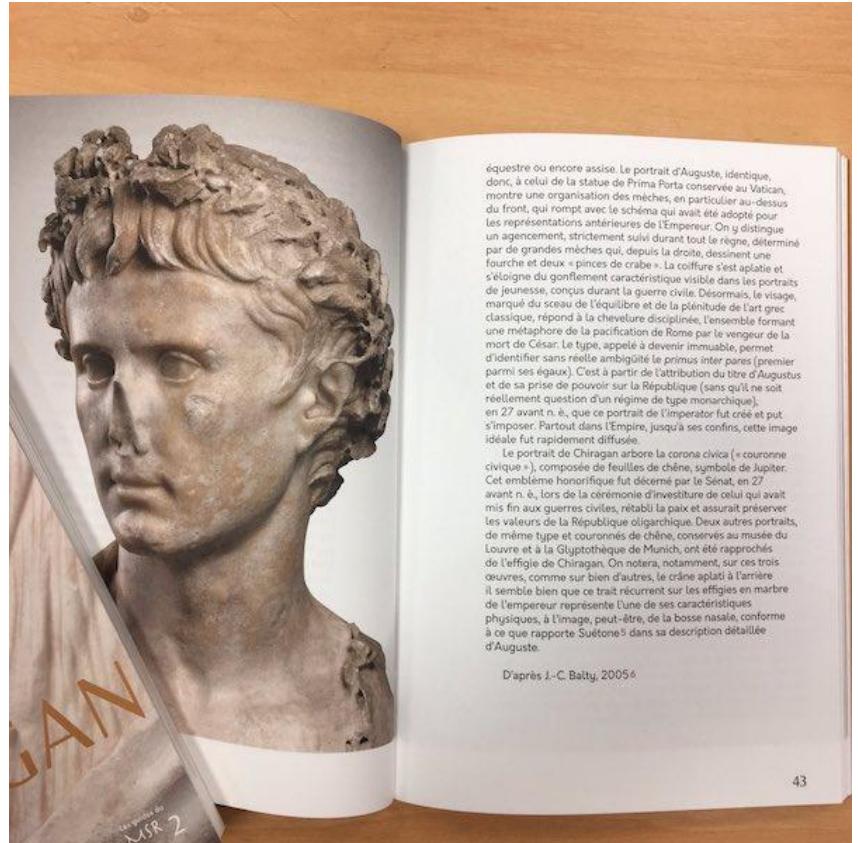
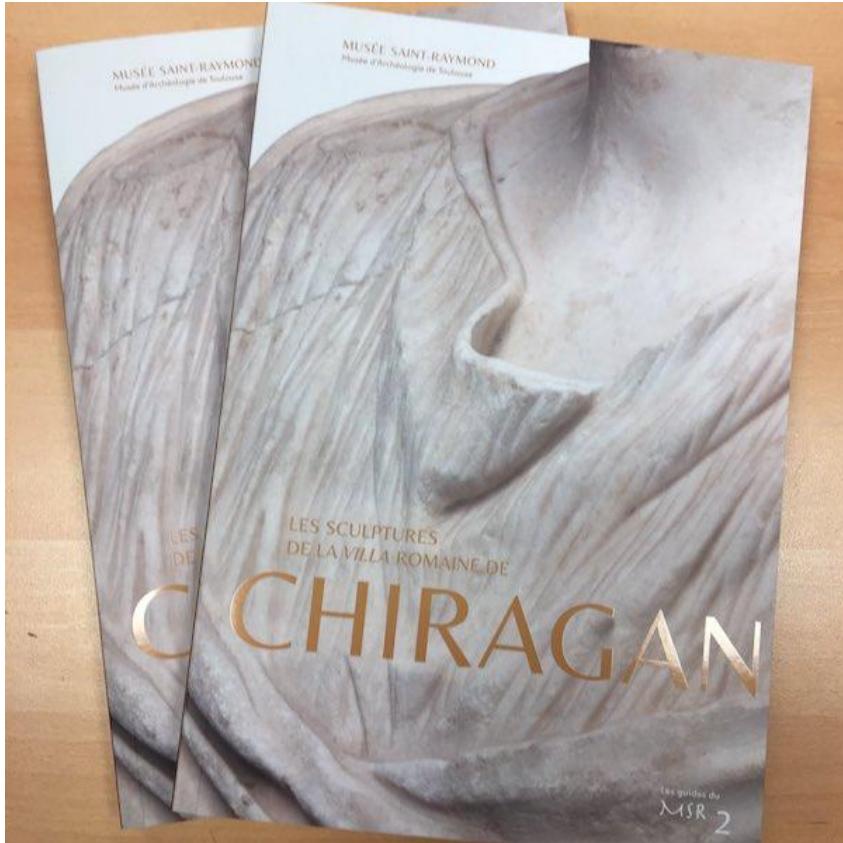
Musée Saint-Raymond

Toulouse Archaeology Museum

0



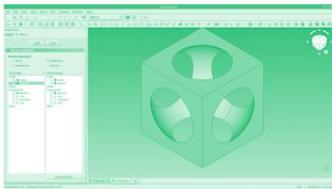
The discovery of dozens of marble sculptures on the site of the Roman villa of Chiragan in Martres-Tolosane in the 19<sup>th</sup> century remains to this day one of the most impressive feats of French archaeology. So many pieces have not been found at any other ancient site in France, and only a few sites throughout the ancient lands of the Roman empire, such as Emperor Hadrian's villa in Tivoli or the villa of the Papyri in Herculaneum, can bear witness to such a collection of marble pieces in a private context.



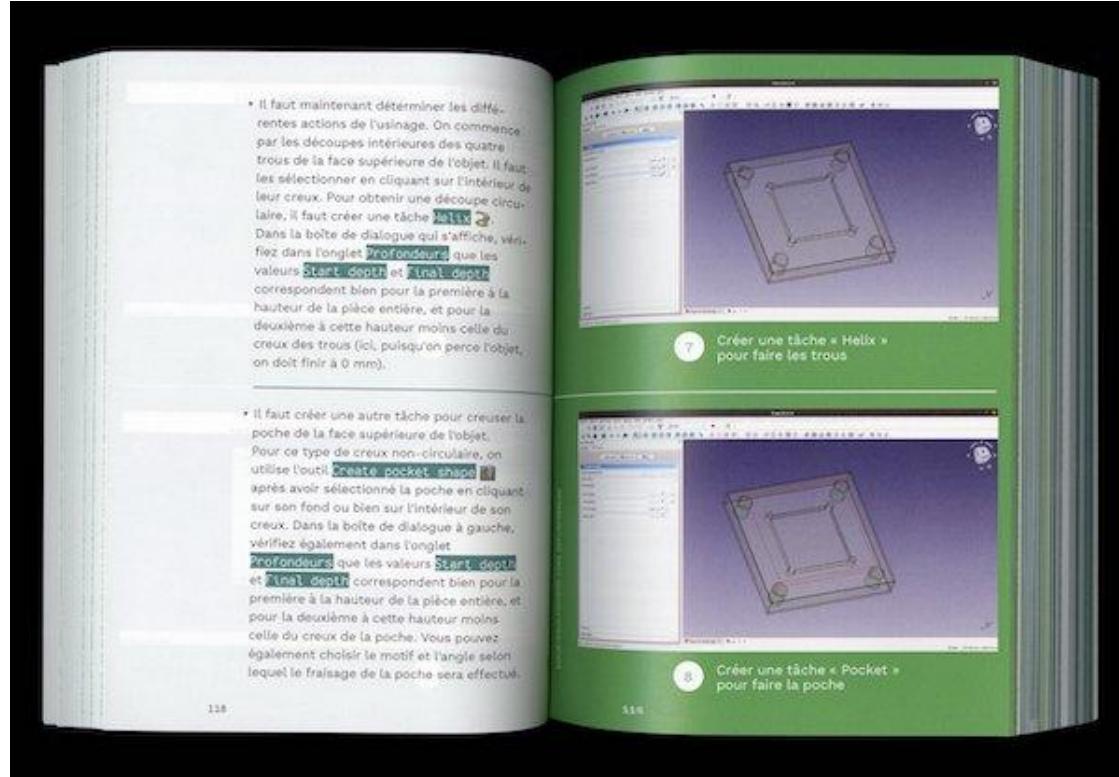
équestre ou encore assise. Le portrait d'Auguste, identique, donc, à celui de la statue de Prima Porta conservée au Vatican, montre une organisation des mèches, en particulier au-dessus du front, qui rompt avec le schéma qui avait été adopté pour les représentations antérieures de l'Empereur. On y distingue un agencement, strictement suivi durant tout le règne, déterminé par de grandes mèches qui, depuis la droite, dessinent une fourche et deux « pince de crabe ». La coiffure s'est aplatie et s'éloigne du gonflement caractéristique visible dans les portraits de jeunesse, conçus durant la guerre civile. Désormais, le visage, marqué du souci de l'équilibre et de la plénitude de l'art grec classique, répond à la chevelure disciplinée. L'ensemble formant une métamorphose de pacification de Rome, par le vengeur de la mort de César. Le type, appelé à devenir immuable, permet d'identifier sans réelle ambiguïté le *primus inter pares* (premier parmi ses égaux). Cela dépend de l'attribution du titre d'Augustus et de sa prise de pouvoir sur la République (sans qu'il ne soit réellement question d'un régime de type monarchique). En 27 avant n. è., lorsque ce portrait de l'empator fut créé et put s'imposer. Partout dans l'Empire, jusqu'à ses confins, cette image idéale fut rapidement diffusée.

Le portrait de Chiragan arbore la corona civica (« couronne civique »), composée de feuilles de chêne, symbole de Jupiter. Cet emblème honorifique fut décerné par le Sénat, en 27 avant n. è., lors de la cérémonie d'investiture de celui qui avait mis fin aux guerres civiles, rétabli la paix et assurait préserver les valeurs de la République oligarchique. Deux autres portraits, de même type et couronnés de chêne, conservés au musée du Louvre et à la Glyptothèque de Munich, ont été rapprochés de l'effigie de Chiragan. On notera, notamment, sur ces trois œuvres, comme sur bien d'autres, le crâne aplati à l'arrière. Il semble bien que ce trait récurrent sur les effigies en marbre de l'empereur représente l'une de ses caractéristiques physiques, à l'image, peut-être, de la bosse nasale, conforme à ce que rapporte Suetone<sup>5</sup> dans sa description détaillée d'Auguste.

D'après J.-C. Batty, 2005<sup>6</sup>



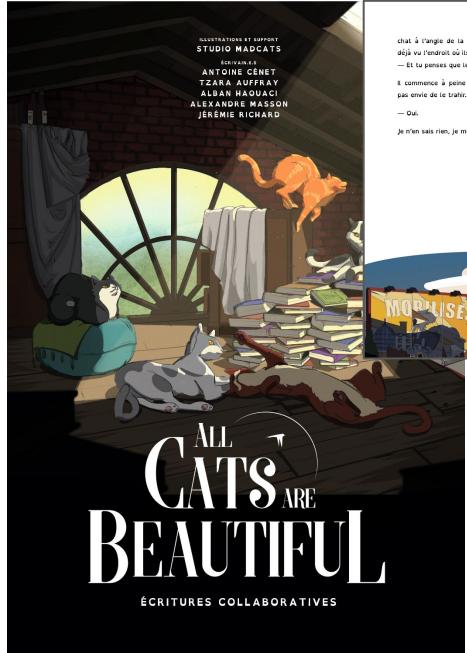
2  
.DOCX



+ uncertainty +  
+ means knowing how to + + + + + + + + + + + + + + + + + + +  
+ get lost +  
+ in complexity +

CONTROVERSIES  
INSTRUCTIONS  
FOR USE





Big title on left page, with text on columns

This is a little subtitle, here to explain what we are talking about

Present, consequat congue commodo. Phasellus eu massa feugiat, imperdiet nisi a, sagittis quis.

Suspendisse et gravida nunc. Quisque at felis nisi. Nam eget efficitur nunc. Vivamus fermentum imperdiet massa, porttitor elementum enim. Maecenas tellus.

Pharetraque est, nec tortor. Fusce vulputate ex at turpis consectetur, in vestibulum odio placerat. Suspendisse tempus sapien vel felis. Donec auctor, a, tristique odio. Sed in consequat augue. Proin finibus felis neque, ac hendrerit lorem convevallis nec.

Quod propositio penatibus et magnis dis parturunt, menes, nascetur ridiculus mus. Fusce quam in, dapibus et augue sit amet, porttitor vulputate orci. Vestibulum ac ligula at porttitor. Donec sapien, vestibulum vel felis vel iaculis nibh, non tristique lectes. Phasellus vel ex bibendum, accumsan tellus a, commodo nisi.

Mauris tridicunt dolor ligula, et egostas letitas nonum consectetur. Donec ac ex metus, vestibulum there is, convallis risus.

This is another big title, on a page full of work presentation

We present you some of WeasyPrint's features.

**Table of contents**

**Heading titles and page counters**

**Multi-column text**

**Internal links**

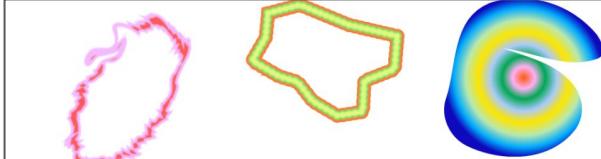
**Different page types**



@page ([Link](#)) and @media print

```
@page {  
  size: 8.5in 11in;  
  margin-top: 4in;  
}  
  
/* Targets all even-numbered pages */  
@page :left {  
  margin-top: 4in;  
}  
  
@page :right {  
  size: 11in;  
  margin-top: 4in;  
}
```

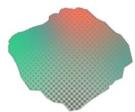
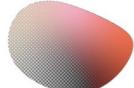
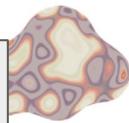
@page ([Link](#)) and @media print



```
@page {  
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  margin-top: 4in;  
}
```



```
@page :left {  
  margin-top: 0in;  
}
```



```
@page :right {  
  size: 11in;  
  margin-top: 10in;  
}
```

@page ([Link](#)) and @media print

```
.grid {  
  grid-template-columns: repeat(4, 1fr);  
}  
@media print {  
  .nav {  
    visibility: hidden;  
  }  
  .grid {  
    grid-template-columns: repeat(3, 1fr);  
  }  
}
```

## Example of @media print

cyberfeminism index

symbols until one loses their base humanity. Maybe both. But, luckily for me, I'm also (if it's not clear already) a drama queen. And drama queens are blessed and cursed with the delectable ability to connect their banalities with Tragic themes like universal love, righteous crimes, and forests of magic. They are the ideal storytellers. This is an ethnographical report about the dissemination of information on a digital platform. It is also a story about the desire to find ourselves in others' words, and the power of those words to create identity with their spread.

\*Editor's Note: The final page of Freider's dissertation reads: "Please distribute and quote the content of this piece freely. However, I would appreciate my name, Ester Freider, being acknowledged for direct quotations of my writing, as well as terms such as 'girblogging', 'wetness', and 'pirate feminism', that I created or repurposed through my theorization." \*

2022, Ester Freider, B.A. Arts Criticism dissertation, Central Saint Martins, excerpt from p.6, "Introduction: The Beauty of the Baud"; submitted by Ester Freider

<https://www.are.na/block/20684314>

<https://www.are.na/ester-freider/i-m-like-a-pdf-but-a-girl>

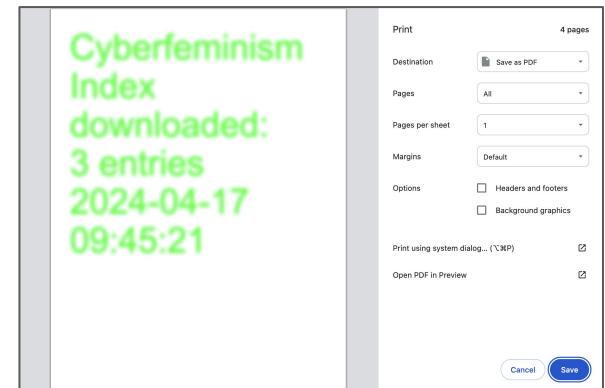


- ⑥57 2022 Cyberfeminist Timelords
- ⑥58 2022 The Encyclopaedia of Female Archetypes
- ⑥59 2023 Cybercultures and Cyberfeminisms

- ⑥60 2023 MsGlitch403

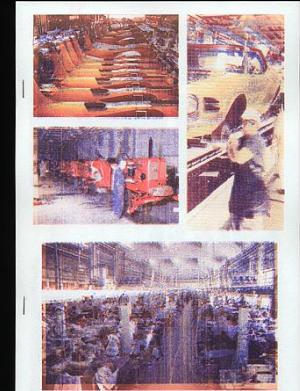
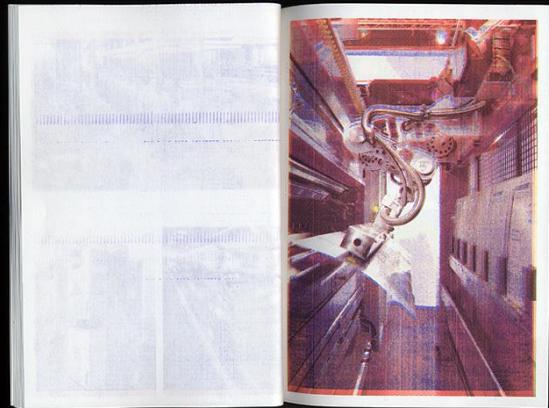
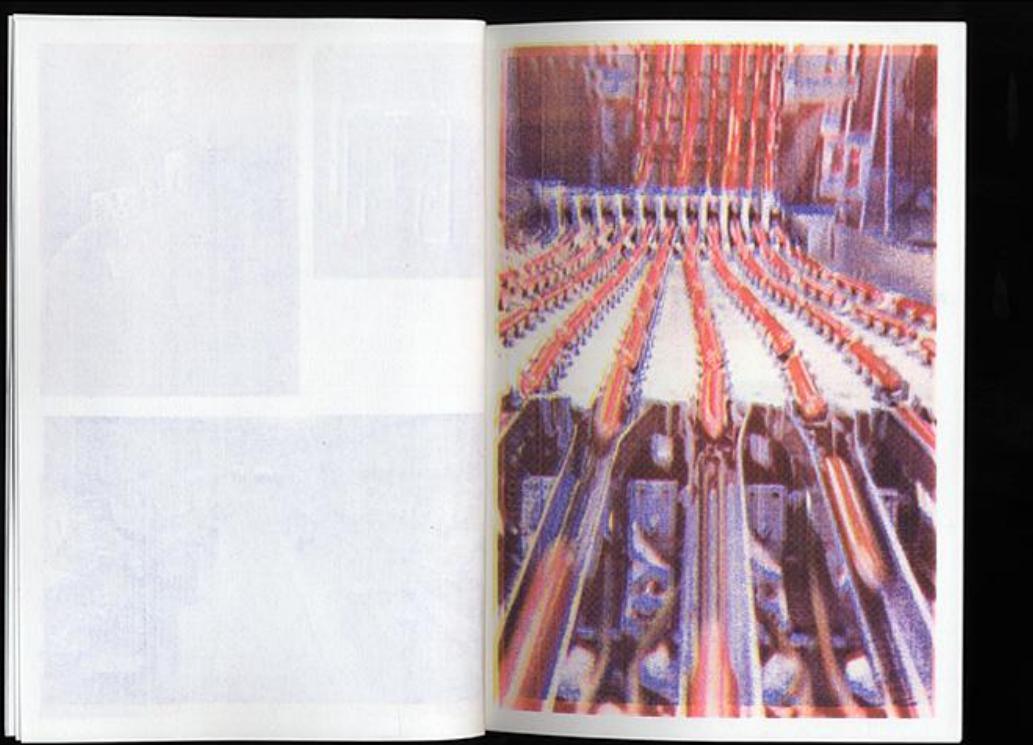
V Barratt  
Tasha Dezelsky  
Jeannine Tang, Irina  
Aristarkhova, Maria Fernández,  
Mindy Seu, Margaret Tan  
Irayna Lin, Susan Chen, Lydia  
Pochueva, Joey Ye, Jingtian  
Zong

- ① A Cyborg Manifesto: Science, Technology, and Socialist-Feminism in the Late Twentieth Century  
Donna Haraway
- ② Systers  
Anita Borg
- ⑥56 I'm like a pdf but a girl: Girblogging as a nomadic pedagogy  
Ester Freider





Xavier Antin Just in Time, or A Short History of Production



Xavier Antin Just in Time, or A Short History of Production



## PRODUCTION

### On a Short History of Desktop Publishing

#### MAGENTA

Stencil Duplicator, 1880

The stencil duplicating process was patented by Thomas Edison in 1880 and few years later released by A.B. Dick under the name 'Edison Photostatic'. It was the first machine to compete with the contemporary Ricoh and Rieograph. It was the first effective desktop printing device and was able to produce up to a few thousand prints from the privacy and comfort of one's own home, allowing anyone who was so inclined to head their own small scale publishing enterprise. It paved the way for the future democratisation of publishing, creating space for the low-budget and the amateur, the independent and the dissident.

During this very same year of 1880, the economist Alfred Marshall was working on his influential essay "The Principles of Scientific Management", that was to be the directing principle of industrial production in the 20th century. In contrast to mimeographing, Taylorism reduced the workers' skill to a single task in a chain of many, alienating him from the fruits of his own labour.

#### CYAN (ALIKE)

Spirit Duplicator, 1923

The spirit duplicator was introduced on the US market by Orlitz Inc. in 1923 and was mainly used for very small-scale publishing purposes (up to a few hundred copies) like internal journals, company correspondence, event programmes and pamphlets. The spirit process doesn't require any ink, but a special master - covered with a Purple/blue paste called Aniline - and a solvent, usually methylated spirit. The practical aspect of this inkless process (meaning no stained fingers) made it popular up until the 70s for church and school printouts but also for Communist pamphlets in mid 20th century USA, who used it to avoid being caught with the proverbial red-hand.

Xavier Antin, London, 2010  
Printed thanks to the help of Sophie Demay,  
Pedro Cid Proenca and Marine Duroseille.

#### BLACK

Laser Printer, 1962

The laser printer is a digital improvement of the photocopier developed in the Xerox Research Center in 1962. The first prototype was produced in 1969, but more than a decade would pass before the first desktop laser printer, the Xerox Star 8010, was commercially released in 1981.

The development of the photocopier was an equally long and protracted process.

The first office sized machine, the Xerox 914, was released in 1959, twenty years after Xerox founder Chester Carlson made the first photocopy, manually, in the backroom of his house. The 914 model was so popular that a patent for it was issued in 1961, but it took Xerox six years to expect a return on the product. Progressively invading offices, school and libraries during the 80s, the photocopier deeply affected the public's relation to the way information circulates. It influenced the 1976 revision of American copyright law, which implemented the notion of 'fair-use', allowing people to use copyrighted material without permission for quotation purposes and limited numbers of photocopies for educational purposes.

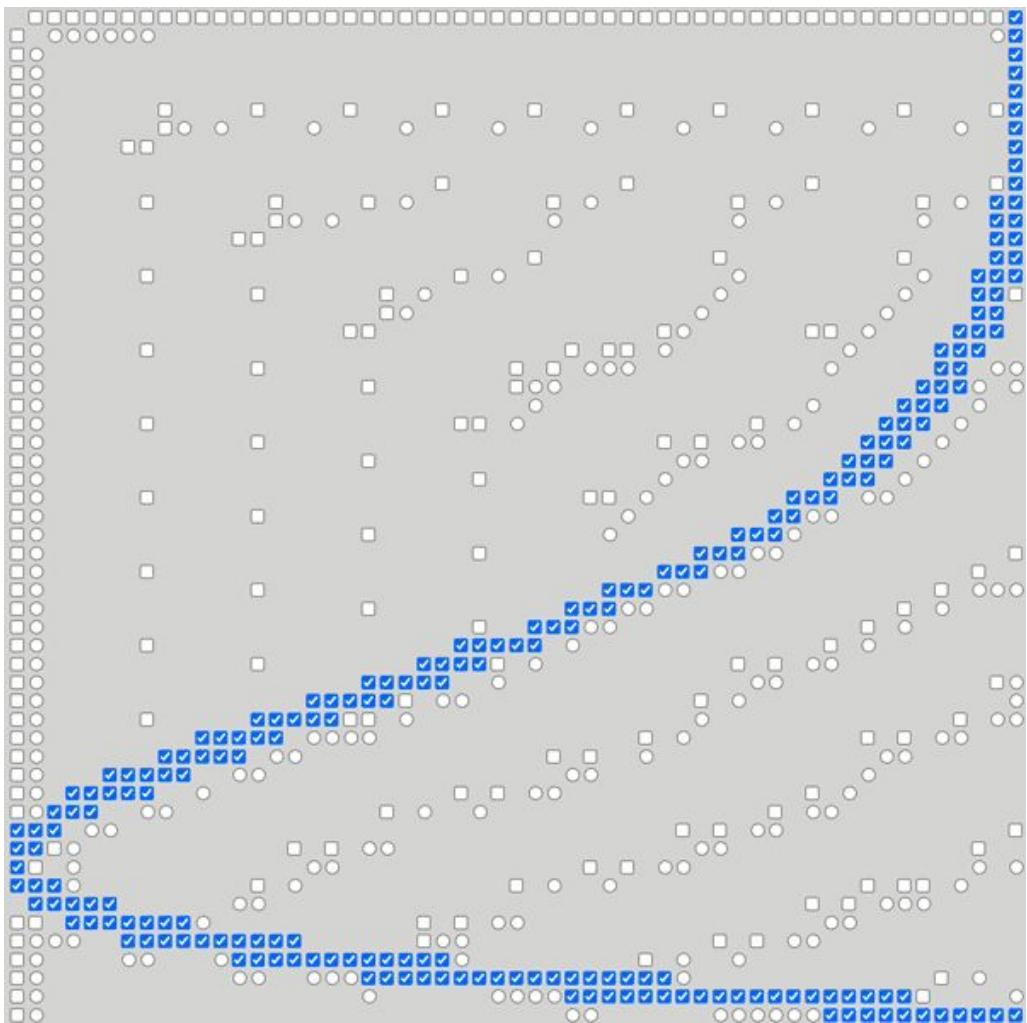
#### YELLOW

Inkjet Printer, 1976

The first inkjet printer was produced in 1970, but it didn't reach home consumers until 1984 with the first HP Deskjet. The main technical aspect of the process is contained in the printhead while the rest of the printer is barely a plotter. The development of inkjet printers saw the parallel growth of its lucrative ink supply business and the rise of a culture of ink refilling and hacking in the machines, turning the user into a dependent consumer. The last decade has seen a constant increase in the most varied forms of user-led hacking, from ink refill systems to printers turned into cutting plotters, t-shirt or circuit board printers.

First edition of 100  
First run of 39  
Copy number 17

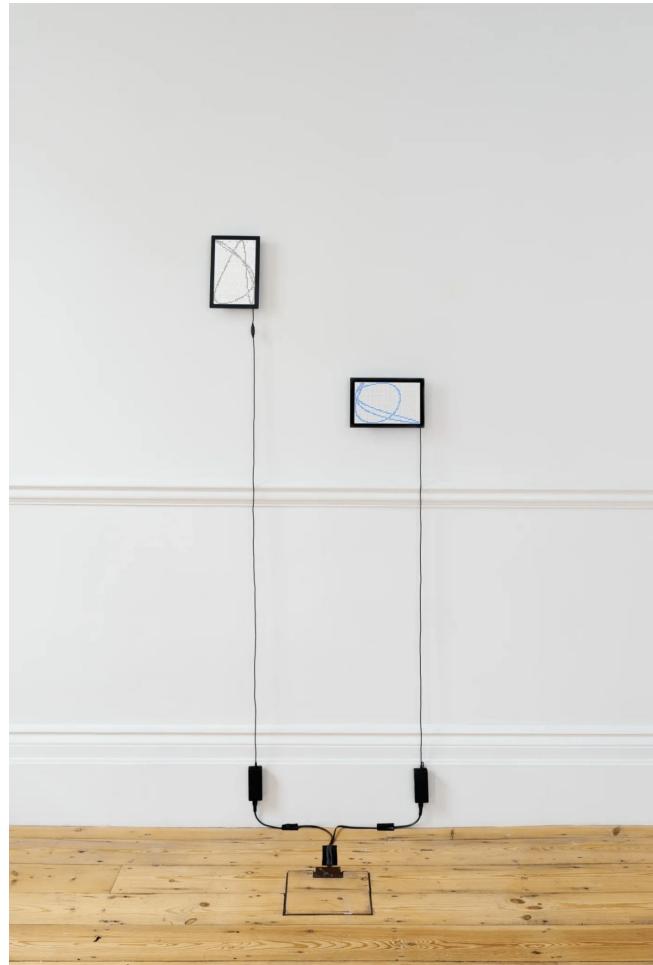
John Provencher HAHA



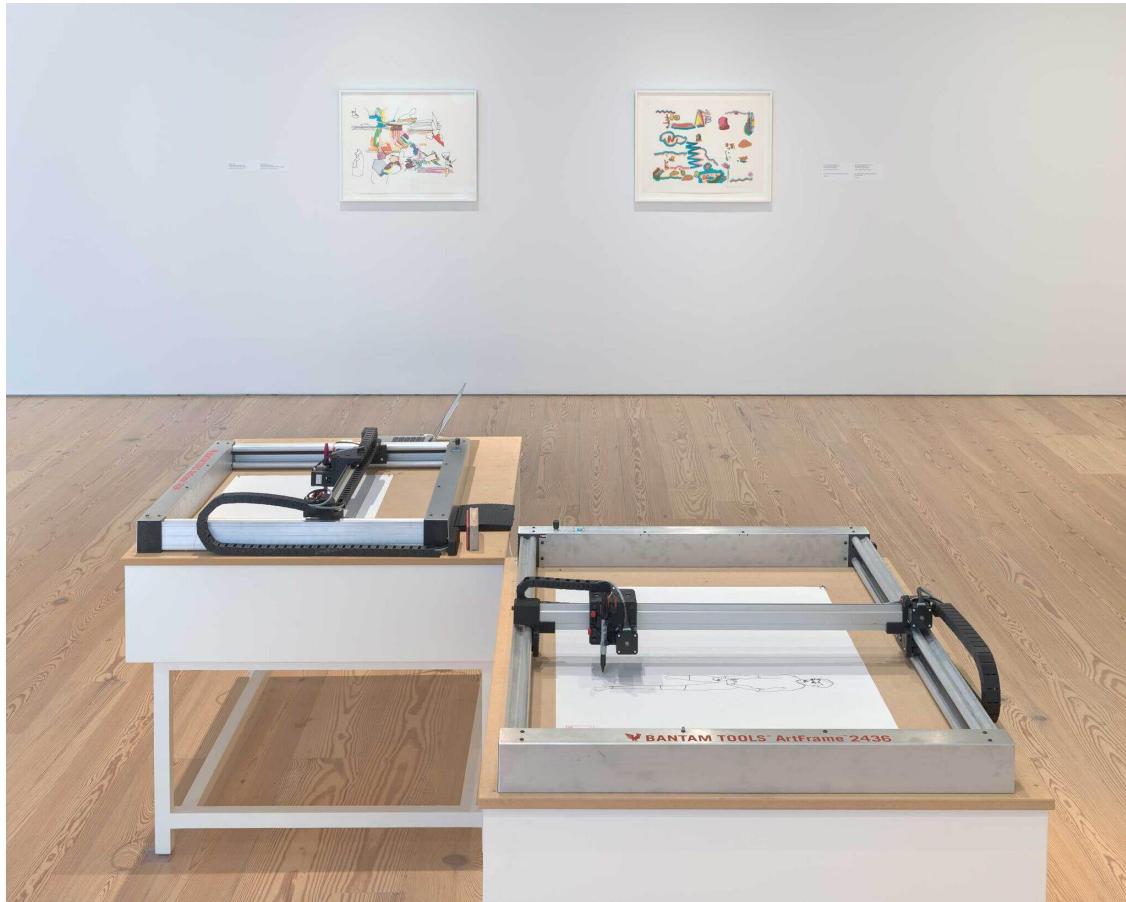
John Provencher HAHA



John Provencher HAHA



Harold Cohen's AARON





Previously Recorded

# Library of the Printed Web





# ON PUBLISHING GRAPHIC DESIGNERS WHO PUBLISH

Edition 1813, Collated  
April 17, 2024 at 9:38

# LOW←TECH MAGAZINE

This is a solar-powered website, which means it sometimes goes offline

[About](#) | [Low-tech Solutions](#) | [High-tech Problems](#) | [Obsolete Technology](#) | [Offline Reading](#) | [Archive](#) | [Donate](#) | [NTM](#)  

## How to Escape From the Iron Age?

We cannot lower carbon emissions if we keep producing steel with fossil fuels.

March 18, 2024



INTERNET ARCHIVE  
**Wayback Machine** <http://risd.edu/> 8,934 captures 10 Dec 1997 – 16 Apr 2024

MAR APR MAY  
23 2013 2014 2015 About this capture

**RISD**

ABOUT ACADEMICS ADMISSIONS CONTINUING EDUCATION

PARENTS STUDENTS ALUMNI MUSEUM OF ART

APPLY to RISD

SEARCH PEOPLE + PAGES

Maharam Fellows Work for Social Change

As one of nine students to earn funding, Blake Hiltunen MFA 14 SC will intern as a beekeeper this summer.

1/4 ← →

# Rhode Island School of Design

**COMING UP** [calendar >](#)

**John Cuneo | Illustration talk**  
Wednesday, April 23 » 4:30 pm

**Armand Mevis | Graphic Design lecture**  
Thursday, April 24 » 6:30 pm

**Jessica Walsh 08 GD | Creative Play**

**EXHIBITIONS** [more exhibitions >](#)

**GRAPHIC DESIGN: NOW IN PRODUCTION**

**NEWS** [more news >](#)

**FICTITIOUS DISHES**  
Dinah Fried MFA 13 GD focuses on food

**Outstanding young landscape architects**  
Courtney Kirk MLA 07 makes *40 Under 40* list

**COSMOS helping to popularize science**

## VERSION CONTROL on Github

lucypham / viet-gd

Type ⌘ to search

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

## Commits

main

All users All time

Commits on Apr 14, 2024

**Mobile**

- lucypham committed 3 days ago · 3 / 3 6870558
- Adding links to the navbar
- lucypham committed 3 days ago · 3 / 3 9783d3a

Commits on Apr 10, 2024

- Updating an image...
- lucypham committed last week · 3 / 3 6ae839d
- Forget to add "items"...
- lucypham committed last week · 3 / 3 061ed70
- Updating JSON file again...
- lucypham committed last week · 3 / 3 147cb94
- Updating JSON for music files!
- lucypham committed last week · 3 / 3 f65db7f

...

## VERSION CONTROL on Github

✓ Updating JSON for music files!

Browse files

main

lucypham committed last week 1 parent 50221be commit f65db7f

Showing 3 changed files with 1,187 additions and 45 deletions.

Whitespace Ignore whitespace Split Unified

Filter changed files

.DS\_Store

old-json

vietgd copy.json

vietgd.json

Binary file not shown.

1,052 old-json/vietgd copy.json

180 vietgd.json

@@ -602,7 +602,7 @@

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604 604 "yearRange": "Undated",  
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605 + "image": "images/poster/trong-cay-cham-soc-rung-la-trach-nhiem-moi-nguoijpg",  
606 606 "artist": null,  
607 607 "title": "<i>Trồng cây chăm sóc rừng là trách nhiệm mọi người (Planting trees  
and caring for forests is the responsibility of everybody)</i>",  
608 608 "size": null,  
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