

Muriel Cooper 1925-1994

Educator, Art Director and Graphic Designer at MIT Press and MIT Media Lab

Founder of the Visual Language Workshop







Muriel Cooper began her career as a freelance graphic designer and later became an editorial designer. She graduated from and taught at the Massachusetts College of Art, where she would learn studio practices to take into engineering disciplines. She also studied exhibition design on a Fulbright Scholarship. She worked as an art director, educator, and designer at MIT.

- Designer of 500+ books, 100+ awards
- Design director at MIT Press
- Cofounder of the Visible Language Workshop
- Cofounder of the MIT Media Lab



The Visible Language Workshop (VLW) was home to "Messages and Means," a consistently oversubscribed class that introduced students to graphic design, giving them access to methods of production and encouraging them to pursue new forms of graphic **communication**. Led by visionary director Muriel Cooper, and embedded in the rich technological environment of MIT, the VLW was ideally positioned to innovate those new forms. As early as the 1980s, Cooper had recognized that "the shift from a mechanical to an information society demands new communication processes, new visual and verbal languages, and new relationships of education, practice, and production."

- MIT Archival Museum





Eleven years after its founding, in 1985 the VLW became one of the Media Lab's first research groups. Cooper, who was the first graphic designer on the MIT faculty, became the Lab's **first female faculty member to be awarded tenure**.

Visualization of New Concepts

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"My model is very much more an art school, or a design school, where you don't give recipes for things," she said. "But it's not purely a studio, because **there's a lot of rigor in making a machine do something you want it to do**. The electronic environment seems to me to have significantly different characteristics than any medium we've communicated in before."

- Muriel Cooper

Educational
Messages and
Means
The Rotation
System

The rotation system was devised to reduce real time spent on the offset press and to maximize the results.

Square paper is used.

The plate is divided into a grid which generally allows four people to work on the same plate and produce a four color 'image'.

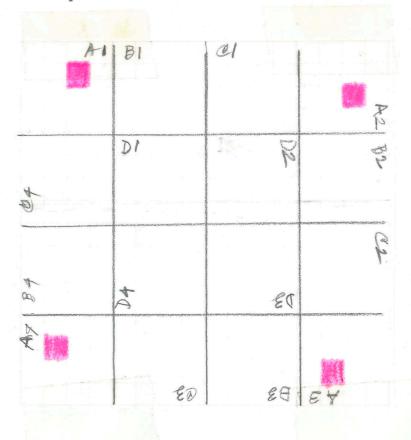
That image can be cumulative or the same image rotated on itself.

It is a simple and very complex idea. It is used because it provides immediate and maximum interaction with an offset press which is normall a mysterioss and highly specialized reproduction tool.

The professional designer of user is separated from such communication tools and an entire intermediate language is devised for the user and the printer. Once the committment to print is made, there is no return without great cost. Mistakes are irretrievable. Options minimal. Creativity is confined to the beginning of the process. Mass production requires this in order to survive.

Experiment and play as a part of professional discipline is difficult at best. This is not only true of an offset press but of all activities where machines are between the concept and the product.

The re-establishment of a relationship between process and product and p erson is perhaps the most valuable aspect of this course and the workshop.



A snapshot of ACT's VLW Archive includes Cooper's description of the rotation system, an efficiency method for offset press, and a color sample in four hues demonstrating how a singular image can be manipulated in a manner that enhances experimentation while simplifying the process. In Cooper's words, "the re-establishment of a complete relationship between process and product and person is perhaps the most valuable aspect of... the [Visible Language] Workshop."

- MIT VLW Archive



"Complete with
Cooper's handwritten
edits, these documents
from the VLW Archive
reveal the thinking
behind the processes
developed at MIT that
would spark
experiments in art,
technology, and
design."

- MIT VLW Archive

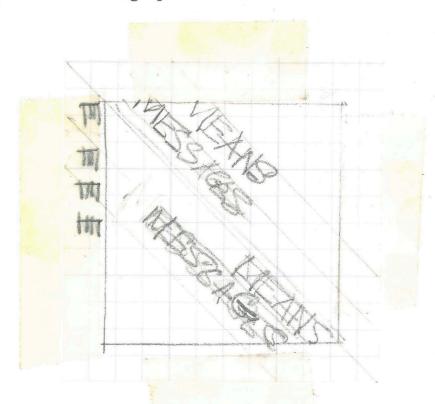
Note: Plastic sleeves hold material to be removed. Please take out. An example of one image rotated on itself four time rather than a cumulative one as indicated on the sketch.

This image is a section of an early Messages and Measa 'participatory' poster made from found materials such as pres-ply circles placed directly on mylar, bypassing the making of megatives.

Such a complex image will result in a particular kind of overprinting

Such a print is enclosed and was typical of earlier M&M groups. The M&M Poster designed my Muriel Cooper and printed by Ron McNeil was printed from only one plate.

The image planned for maximum benefit from minimum means.



Am example of how the understanding of a process is integrated into the conceptualization of the produce











Information Architect Lisa Straussfield







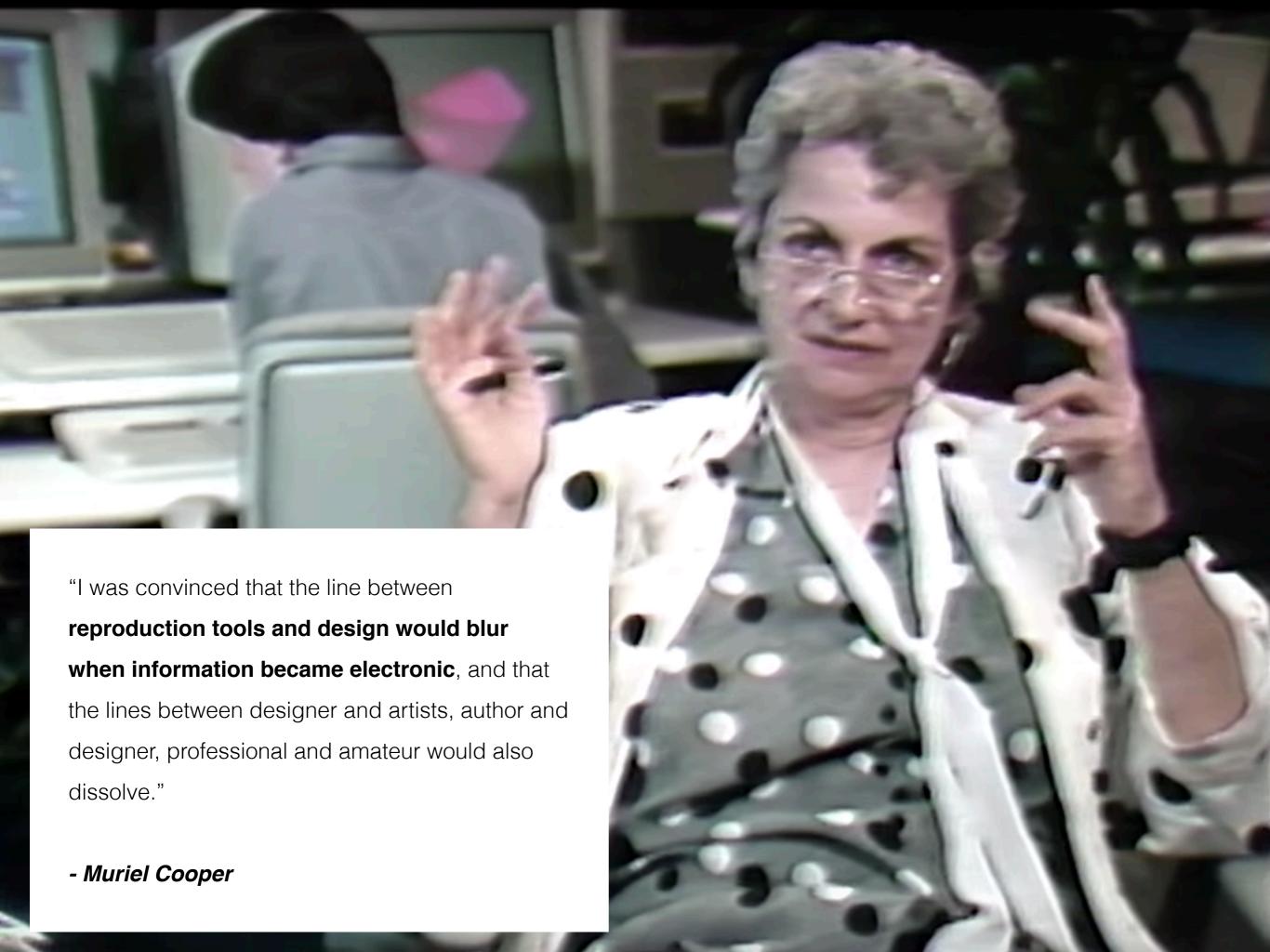


systems





Weisenberger writes that throughout her career, Cooper's concerns "remained remarkably consistent: she turned reproductive technologies to productive ends; made or modified tools and systems to achieve quicker feedback between thinking and making; and dissolved the lines between design, production, and different media."

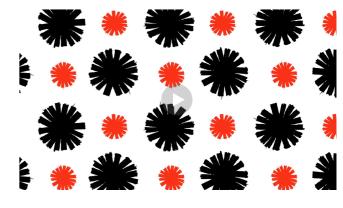


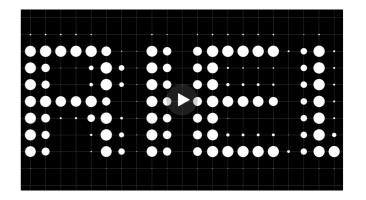
A lifelong animation enthusiast,
Cooper regards this technique as
a "key component to an overall
set of communication

vocabularies. Not as in video, not as in scientific visualization or computer animation. Just animation." Asked what is so compelling about it, she began by stating the obvious: "It moves, it tells you much more. I'm more interested in motion than character animation, though that is important as well. Did I love Disney, you mean? Was I turned on by Pinocchio as a child?"

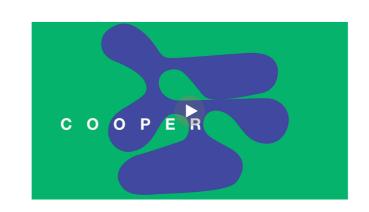
- AIGA, "Medalist: Muriel Cooper"





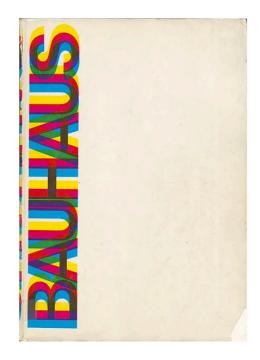








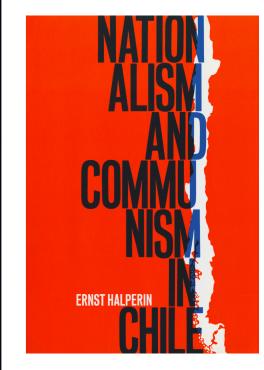


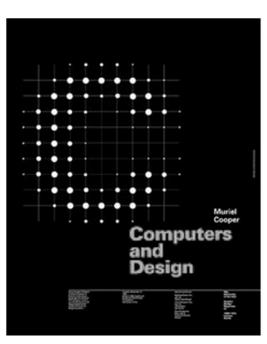






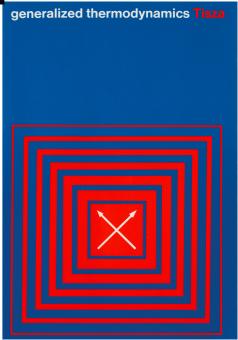












"I have a profound disdain for answers. We do a lot of groping here," she said. "I don't think there are answers. I think there are thoughts."

- Muriel Cooper

Which mediums would excite Muriel Cooper today? What disciplines do you see merging in new ways as technologies develop? What do you think it says about design and technology that Muriel Cooper's career is most influential through her educational efforts? How would Cooper think of data as a resource?

What is the style/use/purpose of your subject?

To provide context for the origin of the field of interface design and the art-tech industry. "Design History 101" and celebrate new perspective

What does this subject do well? What do they do poorly? What do you like/dislike?

Cooper was an exceptionally talented designer and alternative thinker. I'm having a hard time finding things she did poorly, though she was a self-proclaimed non-coder as it completely overwhelmed her. Her work is also almost too abstract to apply to many scenarios.

How does this subject connect to other readings and discussions within the course?

Interface design is critical to the study of data visualization. Viewing technology as a collaborator and creative medium is integral to the communication of complex data stories.

Videos

- Bauhaus: https://www.youtube.com/watch?time_continue=1&v=fD2LM_IYTKg
- Ted5: https://www.youtube.com/watch?v=BhrZHkdc2rU
- information landscapes: https://www.youtube.com/watch?time_continue=26&v=Qn9zCrlJzLs
- https://www.pentagram.com/work/muriel/story
- animation: https://vimeo.com/238311156
- animation: https://vimeo.com/238310952
- animation: https://vimeo.com/238311453
- animation: https://youtu.be/vvW7gfYHSc4
- animation: https://www.youtube.com/watch?time_continue=29&v=U5pP_cNuFWU
- Muriel: A Symposium https://www.youtube.com/watch?time_continue=5&v=a8pM0gLFnPM

Sources: Articles

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- https://www.media.mit.edu/groups/vlw/projects.html
- http://museum.mit.edu/150/115
- https://eyeondesign.aiga.org/muriel-coopers-visions-of-a-future/
- https://www.wired.com/2014/10/mit-media-lab-gets-transforming-logo-courtesy-pentagram/
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- https://99percentinvisible.org/article/muriel-cooper-designing-bridge-bauhaus-digital-age/
- https://www.aiga.org/medalist-murielcooper
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- https://walkerart.org/magazine/muriel-cooper-turning-time-into-space

Sources: Papers

- Computers and Design; Design Quarterly: https://www.jstor.org/stable/4091189?read-now=1&seq=12#page_scan_tab_contents
- Muriel Cooper: https://www-oxfordartonline-com.libproxy.newschool.edu/groveart/view/10.1093/gao/9781884446054.001.0001/oao-9781884446054-e-7002021579
- Messages and Means: Muriel Cooper at MIT: https://www-tandfonline-com.libproxy.newschool.edu/doi/pdf/10.2752/175470715X14153615623808?needAccess=true
- "Doing it Deadpan" Venturi, Scott Brown and Izenour's Learning from Las Vegas: https://search-proquest-com.libproxy.newschool.edu/docview/232912835?OpenUrlRefId=info:xsid:primo&accountid=12261