

Positions through Triangulating

In Tim Ingold's book *Lines: A Brief History*¹, the author takes a systematic approach to investigating the characteristic differences and commonalities of line-making through various methods such as “weaving, observing, singing, storytelling, drawing and writing”². Chapter 5, titled *Drawing Writing and Calligraphy* begins with Ingold breaking down the ways drawing and writing have canonically been distinguished into four areas, which broadly follow themes of script vs. notation, drawing as art, writing as technology, and linearity vs. gesture. He then proceeds to methodically work his way through these terms by defining and contextualising them historically, in relation to existing discourse, and his own argument. He carefully examines each discipline interdependent of one another; meaning the conclusion of each chapter section is not a distinct, separate statement, but a hypothesis that builds into a solid argument — contributing to his overarching theory that drawing, writing and calligraphy are intrinsically linked in their nature. In this chapter, Ingold ultimately scrutinises the power of gesture³ as it relates to line-making, contending that the movement (or non-movement) that creates a line is integral to its perception as either notation⁴ or script⁵. One comparison he makes is between different representations of Chinese script, rendered first by hand using a brush (fig. 1), and then through print (fig. 2). Curiously, he does not include the conception and production of diagrams, or diagrammatic figures, in his text — ultimately characterising the printed reproduction of graphic figures, which he calls “linearization”, as “the death of the line”, containing “neither life nor movement”⁶.

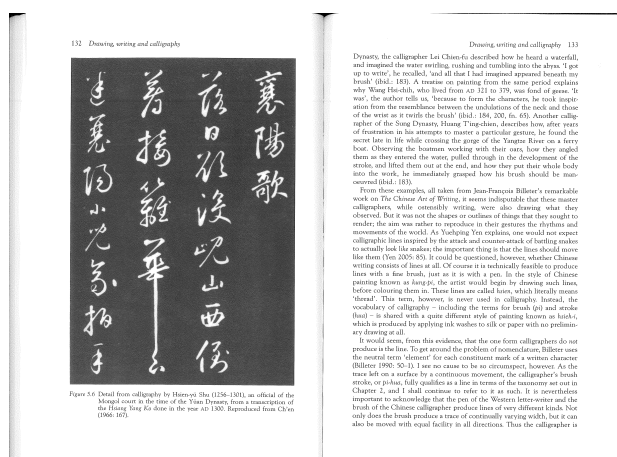


Figure 1. An example of traditional Chinese brush calligraphy, reproduced from Ingold, T. (2007) *Lines: A Brief History*. Routledge: London. Pp. 132-133

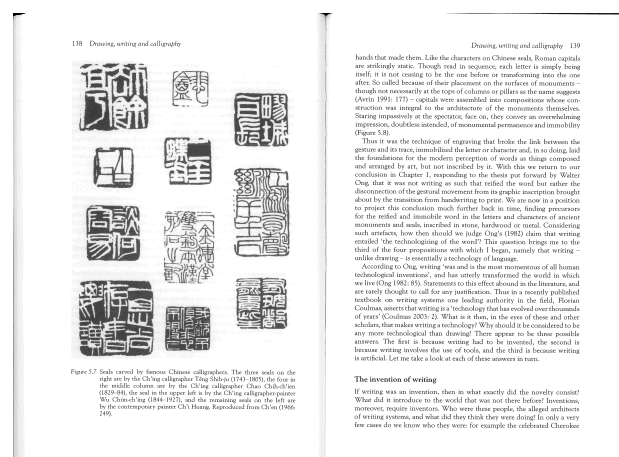


Figure 2. An example of carved Chinese seals, reproduced from Ingold, T. (2007) *Lines: A Brief History*. Routledge: London. Pp. 138-139

¹ Ingold, T. (2007) *Lines: A Brief History*. Routledge: London.

² Ingold, *ibid.*, pp. 1

³ gesture; the physical act of line-making; the movement one makes to draw, paint, inscribe a line into existence

⁴ notation; a system of symbolic figures that denote figures, numbers or distinct components in a complex of information.

⁵ script; written or drawn information rendered specifically by the hand, that can utilise parts of a writing system.

⁶ Ingold, pp. 151.

To situate Ingold’s argument around the context of diagrammatic expression, I read Sybille Krämer’s text, *Graphism and Flatness: The Line as Mediator between Time and Space, Intuition and Concept*⁷ and Susanne Leeb’s article *A Line with Variable Direction, which Traces No Contour, and Delimits No Form*⁸, which invoke and discuss the variable parts of diagrams and graphic lines; their production, semantic intentions, and potentialities. Krämer and Leeb both find the diagram to be a form of “graphism”⁹ that depends on movement to hold meaning. Leeb discusses the points on a diagram to be “pivotal”¹⁰, characterising them as a site of movement; while Krämer proposes that diagrammatic lines are a “corporeality”¹¹, suggesting that they are intimately connected with the body. This relates back to, but ultimately contends with, Ingold’s argument of gesture, which suggests that the movement in the line is limited to its mode and indeed moment of creation — and if mediated by technologies that involve notational elements, cannot be considered a script.

Each of these texts intersect with my own enquiry slightly differently. Currently, I am conducting an open interrogation of the language used for diagrammatic instruction, aimed at exploring the limits and nuances of diagramming and how that generates meaning. I am doing this through material experiments that are self-referential and subvert the intended uses of different diagrams for applied arts and craft, as a way of cataloguing and repurposing them. I started by indexing a collection of diagrams from instructional craft books, classifying them by colour, shape and form, and their relation to text and numbers. I then began subverting their use through animation, stitch work (fig. 3) and weaving (fig. 4).

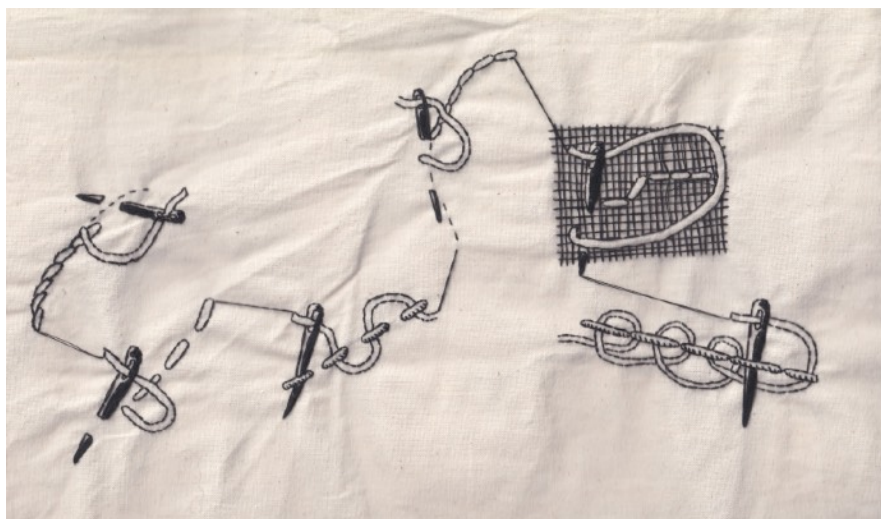


Figure 3. A stitched rendition of stitching diagrams. Cotton on calico. Image courtesy of author.

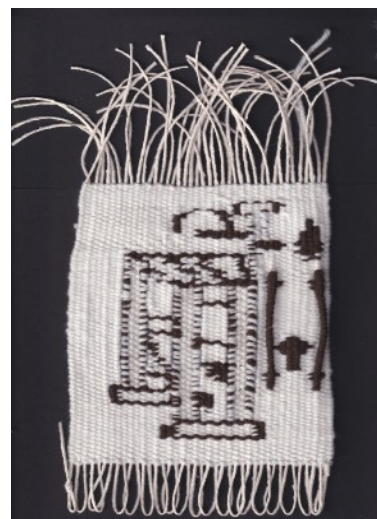


Figure 4. A woven diagram of a drawboy machine, rendered in wool. Image courtesy of the author.

⁷ Krämer, S. (2015) ‘Graphism and Flatness: The Line as Mediator between Time and Space, Intuition and Concept’, in M. Faietti and G. Wolf (eds) *The Power of Line*, Hirna, pp. 10–17.

⁸ Leeb, S. (2015) ‘A Line with Variable Direction, which Traces No Contour, and Delimits No Form’, in N. Gansterer (ed) *Drawing a Hypothesis: Figures of Thought*, Springer Verlag, pp. 29–42.

⁹ graphism; the use of line or symbols to express thought and meaning. Krämer, pp. 11.

¹⁰ Leeb, pp. 36.

¹¹ Krämer, pp. 11.

So far, my investigation has posited that diagrams are static, merely representing a movement or physical thing — key frames that collect and represent the most important part of an actionable skill, process or object. Unlike the above authors, I have not considered the gesture as integral to the diagram itself, but more to the potential outputs they generate. Ingold focuses on the process of learning through gesture, which results in a line, where I am looking at the gestures learned through line, which result in a separate output. His emphasis on the distinction between gesture and technology sits in contrast to my studio experiments which seek to combine the motion of line-making with the technology that makes the line.

In these test pieces (see figs. 3 and 4), I was working towards creating an integrated dialogue between the drawing [diagram], maker and the output — which I had defined as the three integral elements to the variable functionality of a diagram. To demonstrate this, I followed the figures in a book of 100 embroidery stitches¹² to create stitched representations of the diagrams themselves (fig. 5). My second experiment used a figure of a draw-boy apparatus¹³ (fig. 6), which I wove using plain weave on a tapestry loom.

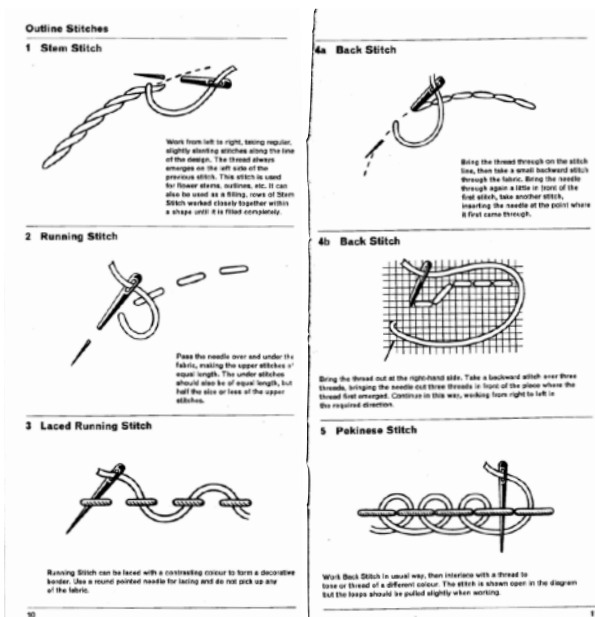


Figure 5. Diagrams of stitches, reproduced from Coats, J&P. (1967) *100 Embroidery Stitches*. Coats Sewing Group: Glasgow.

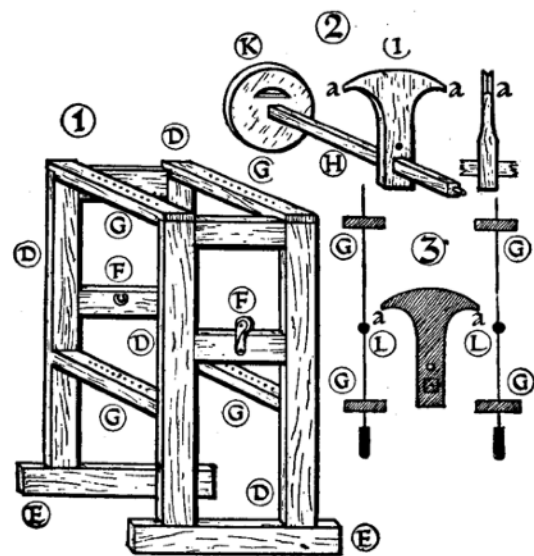


FIG. 100.—Details of the Drawboy Machine.

Figure 6. A diagram of a Drawboy Machine, reproduced from Hooper, L. (1979) *Hand-Loom Weaving*. Bloomsbury Publishing: London.

Though simple, these tests demonstrated the possibility for multiple interpretations of diagrams, as well as providing a physical representation of the diagrammatic gesture that Ingold contests. This is particularly evident when looking at the reverse of my stitched sampler and the tapestry weaving, which trace the actual movements made in the process of making the work (see figs. 7 and 8).

¹² Coats, J&P. (1967) *100 Embroidery Stitches*. Coats Sewing Group: Glasgow.

¹³ Hooper, L. (1979) *Hand-Loom Weaving*. Bloomsbury Publishing: London.



Figure 8. The reverse of figure 3. Image courtesy of the author.



Figure 7. The reverse of figure 4. Image courtesy of the author.

Where, then, do my experiments situate diagrammatic instruction in relation to Ingold’s argument? He writes, “Writing is still drawing. But it is the special case of drawing in which what is drawn comprises the elements of a notation”¹⁴. If we extrapolate his thinking to the context of my enquiry — where my experiments merge both gesture and output — the act of making something after a diagram becomes a form of writing, and the output created is part of a script. The consideration of these physical diagrams as scripts correlates to Leeb’s argument and Krämer’s suggestion that a diagram is not objective or quantifiable, but constantly shifting; “an instrument of metamorphosis”¹⁵.

Similarly, I see my enquiry shifting from here, and reconsider my position on the diagram as a static key frame in a sequence of gestures. I see that Ingold’s argument has emphasised the straddling position of *gesture* in relation to diagramming; *gesture* (making something) \Rightarrow *diagram* (recording the act of making) \Rightarrow *gesture* (replicating the skill according to the diagram). The diagram acts as an auxiliary language — a record, even — of the physical acts of creation. This relates to Krämer’s supposition that “line configurations have cognitive power so far as they embody abstract concepts and make them accessible”¹⁶, raising questions around the importance of these translations of practice in maintaining communities of practitioners. Why have diagrams been important for the practice of applied of arts and crafts? How is the slippery (pivotal, ever-changing) nature of diagrammatic language embodied in the outputs it yields? Do diagrams ensnare singular meanings or interpretations of processes, or provide an archive of gestures to manipulate and develop?

¹⁴ Ingold, pp. 122.

¹⁵ Krämer, pp. 12

¹⁶ Krämer, *ibid*, pp. 13.