Creativity and control: drawing for ideation and specification in the design process

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Abstract

A review of nearly thirty years of design drawing research conducted by the author has yielded intriguing findings. Given the major changes in the design profession over that period, and taking into account major shifts in both professional and technological development, it is apparent drawing remains a kind of ubiquitous device, an adaptable tool that the designers of today can still use as necessary, much as did the designers in the pre-digital era. Through the analysis of the drawn record of various stages of the design process, particularly the development of ideas and the specification for production, a very flexible yet focussed use of drawing can still be identified. The drawing activities of two disciplines of designers are investigated in this paper, namely graphic and textile designers, more specifically knitwear designers, and drawings produced during and since the 1980s are analysed.

The use of digital technology has undoubtedly caused changes to the design process that have still to be fully understood \(^1,2\) and approaches that merge digital capabilities with more traditional drawing practices are being promoted \(^3,4,5\). However, even in today’s design studios, paper-based methods are still used to enhance design thinking. The role of drawing in ideation is still generally acknowledged to be most effectively accomplished by traditional drawing methods \(^6,7\). Indeed, of the several hundred designers included in the research, the majority acknowledged that they draw to both develop and share ideas. The part played by specification drawings remains vital in some areas of design and the specification drawings of knitwear designers are particularly interesting. These drawings help to clarifying the complexities of both three dimensional form and two dimensional pattern for the use of production technicians, so they also perform various functions simultaneously. The comparison of the free, intuitive sketchy drawing of ideation with the precision and clarity of specification drawings provides clear evidence of not only the flexibility and adaptability of paper-based drawing but also demonstrates its enduring role in design.

References