The Significance of Encapsulation of Visual Perception for Philosophy of Mind and Aesthetic Analysis

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Abstract

This Opinion Article highlights three sets of important implications of the very recent work by C. Firestone and B. Scholl on the encapsulation of visual perception: (a) methodological implications, especially with regard to experimental areas of cognitive science, such as cognitive social psychology; (b) implications of interest to philosophers of mind, some of whose more extravagant recent claims have been based on the assumption of “top-down” cognitive effects on perception; and (c) implications that challenge some recent work in philosophical and psychological aesthetics regarding art expertise, as well as defend the logic of A. Danto’s theorizing from attacks that are based on the assumption of “top-down” cognitive effects.

Keywords: Perception; “Top-down” effects; Encapsulation of perception; “Top-down” cognitive effects on perception; Philosophy of mind; Philosophical aesthetics; Psychological aesthetics

The relationship between seeing and thinking is a matter second to none in importance in cognitive science. The pendulum has swung a number of times in the past sixty-five years between the position that perception is fully encapsulated and one that insists on its penetration by higher cognitive processes (“top-down” effects). In fact, if one were to take a longer and broader historical view and include the visual arts, literature, and humanities, the number of such swings would be considerably multiplied. However, Chaz Firestone and Brian Scholl (in press, [1]) perhaps err when they label the cognitive-swings would be considerably multiplied. However, Chaz Firestone and Brian Scholl (in press, [1]) perhaps err when they label the cognitive-penetrability avalanche of the past 25 years “revolutionary”: Given the currently prevalent and fashionable position in cognitive science (if not vision science), it is, in fact, their own detailed and careful analysis supporting the notion of impenetrability of perception by cognition that is revolutionary, in the best sense, as well as defensible and immensely important.

The work of Firestone and Scholl (in press, [1]), together with their preceding articles [2,3], is important for at least three reasons. The first is methodological, with regard to experimental areas of cognitive science, especially cognitive social psychology, in which there is virtually an established tradition of allegedly counterintuitive, or “cute,” findings that often turn out to be unrepeatable or questionable in terms of the research “pitfalls” that have now been identified and laid bare by Firestone and Scholl. Their detailed description of these pitfalls is important, even though some of them are by no means “news.” In fact, it would have been desirable if Firestone and Scholl (in press, [1]), in discussing, for example, the issue of task and response bias, also addressed kin methodological matters and gave more detailed credit than they did [4] to social psychologists’ own incisive and multifaceted critiques of methodological problems and abuses in their field, with special reference to the classical studies [5-8].

The second reason for which the cumulative work by Firestone and Scholl is important is to be found in its potential to introduce discipline into some highly speculative, yet influential, conjectures about the nature of perception in the philosophy of mind [9-11]. In fact, the reaction to the article by Firestone and Scholl by philosophers of mind and of science, some of whom are known to have made a heavy intellectual investment in the penetrability-of-perception view, may influence the reception by the broader scientific community in experimental psychology, cognitive science, and neuroscience to the strong impenetrability (encapsulation of perception) view that is advocated by these two psychologists on the basis of the diverse sources of evidence that they have astutely and successfully summoned.

The third major explanation of the significance of this renewed support for the notion of impenetrability of perception lies in the challenges that are unambiguously raised for several influential recent analyses in both the psychology and philosophy of art. The most relevant articles are by Stokes [12], Nanay [13], and Bullot and Reber [14]. Stokes’s [12] work is a major statement that attempts to link art expertise to cognitively penetrated perception. The attempt is in two parts. The first is highly speculative and relies on phenomenological and clinical (associative agnosia) accounts. But the second part, more relevant in the present context, invokes experiments on the “memory color effect” by Witzel et al. [15] and it is the validity of these findings that are clearly open to a serious challenge on the basis of at least three research pitfalls (those regarding judgment, “task demand,” and recognition) that are described by Firestone and Scholl (in press, [1]).

As for Nanay [13], he disputes the truthfulness of the conclusion that Arthur Danto – arguably the most influential American philosophical aesthetician of the second half of the 20th century – reached by means of his famous (or notorious) “gallery of indiscernibles.” Nanay does this by claiming (2015, p. 1) that Danto’s inference was based on the false premise that “perceptual experiences are not cognitively penetrable.” In contrast, Nanay [13] believes that they are penetrable and calls upon precisely those experiments [16-18] that are highly suspect with regard to the research pitfalls described in detail by Firestone and Scholl (in press, [1]).

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Finally, Bullot and Reber [14] claim that paintings “can elicit a variety of automatic emotional responses” (italics added), such as anger, fear, and sadness (their Figure 2 and section 3.1.2., p. 128). This was challenged by Koneční [19, p. 307] on a variety of theoretical and empirical grounds. Significantly, the analysis by Firestone and Scholl (in press, [1]), not only supports the earlier critique by Koneční [19], but helps extend it to other aspects of the general position held by Bullot and Reber [14] – one that excessively relies on Walton’s [20] historical-contextualist theory of art appreciation (also adopted, incidentally, by Stokes, 2014).

Since Jerry Fodor’s influential book on the “modularity of mind” [21], and his debate with Churchland [22,23] regarding this issue, as well as his later writing on Danto [24], the notion of impenetrability of perception was first on an apparent upswing, and then on the downswing (except in basic vision science). Articles by Firestone and Scholl (in press, [1]), do not only support the earlier critique by Koneční [19], but help extend it to other aspects of the general position held by Bullot and Reber [14] – one that excessively relies on Walton’s [20] historical-contextualist theory of art appreciation (also adopted, incidentally, by Stokes, 2014).

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