Farid Masrour, 'Grasping spatial properties'

BENI HELLIE BENJ.HELLIE@UTORONTO.CA BEN1.CA

Ranch Metaphysics Workshop, 29 January 2022

Phenomenality and reasoning about properties

Phenomenalism via presentation

Phenomenalists¹ think that 'the phenomenal character of perceptual experience'2 is in some way explanatory of certain capacities for reasoning about 2This way of talking is unintelligible and pernicious, and certain properties (including, at least, thinking about those properties).

The keystone is *presentation* of a property in an experience:

PHENOMENAL \Rightarrow PRESENT

For certain properties *F*:

for some perceptual experience e^F , a canonical episode of seeing something *F* as such:

for every experience e phenomenally just like e^F :

e presents that property F (because of e's phenomenal character)

PRESENT ⇒ CAPACITY

For certain rational capacities *blahblah* (including *thinking about*):

for every property *F*:

for every experience e which presents F:

e's subject has those capacities blahblah in regard to F and *e* (because *e* presents *F*)

We may grant PRESENT ⇒ CAPACITY (whatever it means); this locates the substance of Phenomenalism in Phenomenal \Rightarrow PRESENT.

Varieties of Phenomenalism

Presupposing Phenomenalism: which properties; and which capacities?

PRESENT CONCRETA 3

the properties include 'material qualities' (redness, sphericality, fluffiness)

PRESENT ABSTRACTA

the properties include 'mathematical' spatial properties

KNOW ESSENCE

the capacities include being in position to know, by reflecting on how F is phenomenally manifest in e, some nontrivial essential truths about F

Grasp 4

PRESENT ABSTRACTA + KNOW ESSENCE⁵

This last is Farid's view.

¹Beyond Masrour, these include authors cited in fn. 3.

everyone should stop. (Compare various BH papers, including cites in fns. 6 and 9.)

OK: finding our center. —Subsequent remarks (with the exception of sec. 2.3) refrain from further protest; but are to be understood as made only 'within the fiction'or, more accurately, in attempted conformity to the implicit conventions of proper use of the inconsistent informal calculus around this terminology.

³The 'naive conception of hallucination': Hawthorne and Kovakovich 2006, 178. Advocates: Johnston 2004, 130 (famously); Dretske 1995, 101-2 (anticipating); cites at Pautz 2007, 502-3, as well as Pautz himself.

Farid's interest in his less neutral official formulation may derive from a 'hydraulic' (Field 2009) conception of epistemology; and it apparently contributes, in turn, residual rhetorical weight to sec. 3's 'logical omniscience'-style attack on his 'Russellian' opponent (compare Stalnaker 1991, 1999b on resources for an 'unhydraulic' rejoinder): my remarks bypass this topic.

⁴Officially: 'abstract Grasp'; where 'concrete Grasp' := PRESENT CONCRETA + KNOW ESSENCE.

⁵Officially, here: KNOW ESSENCE[know := find primitively compelling].

2 Against Phenomenalism

2.1 Against PRESENT CONCRETA

Consider some canonical e^{Red} : perhaps phenomenally just-alike experiences could be (i) 'hallucinatory'/'dream'; or (ii) 'inverted'; or (iii) 'twin-earthed'—each of which might occur absent its subject's capacity to think about *Red*: incompatibly with *PRESENT* CONCRETA.⁶

This may leave PHENOMENAL \Rightarrow PRESENT diminished in plausibility and interest. But it is not yet refuted: over its abandonment, Farid prefers retreat to PRESENT ABSTRACTA.⁷

⁶(i), (ii): Hellie 2010, 104n5; (iii) Masrour, 7.

⁷Compare also Chalmers 2006.

2.2 KNOW ESSENCE for antisolipsism?

Why?

Denying [Grasp] threatens to generate a deeply solipsistic picture of the mind on which perception fails to put us in contact with how the world is or might be qualitatively. A subject who does not experientially gasp blueness might know that the sky is blue. But knowing that does not amount to a qualitative grasp of what it is for the sky to be blue. If we deny Grasp, the alternative would be to locate the object of this qualitative grasp in the mind. [Post-imprisonment, Black-and-White Mary newly] grasps something qualitative (or if you like, gains some new qualitative knowledge). But this qualitative grasp is directed at the self. She learns what it is like to be in a specific experiential state. She does not learn something about blueness. Accepting Grasp, in turn, enables us to locate the object of grasp outside the mind. (Masrour, 6)

The claim is that averting solipsism requires know essence. That in turn presupposes Phenomenal \Rightarrow *Present*, and thus *some* answer to which properties. While *Present* concreta might have been nice, at most *Present* abstracta remains.⁸

Unfortunately, any anti-solipsistic punch from KNOW ESSENCE now contracts to a disappointingly small rump region around the 'mathematical' spatial properties: if BWM's novel qualitative grasp leaves the mind, it gets no further than 'mathematical' color (whatever that might be).

2.3 AntiPhenomenalism for antisolipsism

On the other hand, antiPhenomenalists can avoid solipsism in a less disappointing way, with a venerable 'interpretation of *givenness*' approach (IG), allied to direct realism: ⁹ in seeing something blue, BWM is *given* blueness; such 'qualitative grasp of what it is for the sky to be blue' (knowledge of nontrivial essential truths about blueness) as she may come about requires 'interpreting' this *given*. ¹⁰ The former does not constitute the latter, and does not even suffice for it. But for all that, the BWM intuition is at most that preimprisonment BWM could fail to know what blue is like—not, as the passage suggests, that *post*-imprisonment BWM could *not* fail to know this.

An attack on IG awaits within Farid's remarks recommending Grasp to direct realists:

One needs to distinguish having knowledge of the categorical nature of a property from merely being experientially aware of the categorical nature of the property. Knowledge is an epistemic achievement but mere awareness is not an epistemic achievement. It is unclear how we can do justice to this fact if, in our view, the subject who knows the categorical nature of a property is in no better position with respect to some of the essential truths concerning that property than a subject who is merely aware of the categorical nature of that property. A mere practical ability to manipulate the color of things does not amount to knowledge of their categorical nature. (6)

⁸Recall that Grasp = KNOW ESSENCE + PRESENT ABSTRACTA

⁹I like this view: Hellie 2011, 5.3. (Maybe Kant did too, which would be fine with me.)

¹⁰ 'But which one is *phenomenal character*?' —See fn. 2.

Identifying being given a property with 'mere awareness of its categorical nature', we may concede that it involves no 'cognitive achievement'.

But IG survives, because much daylight remains between 'no cognitive achievement' and 'mere practical ability to manipulate'. After all, when it is blueness (rather than redness) that is given, this is consistent with bluenessinterpretations and inconsistent with redness-interpretations. So the overall consistency of one's mental state then requires the former and prohibits the latter—significant to most epistemologists, albeit in various ways.

What is 'Strict Structuralism'? 3

Elucidating presentation to explain know essence

Having defended Grasp, Masrour's raises this

EXPLANANDUM What is presentation (to the extent required for present AB-STRACTA), such that KNOW ESSENCE is true?

In particular, an adequate explanans would not predict the much stronger thesis know essence[some := all]: this defect with 'Russellian' explanantes limits the search to 'Fregean' theories of presentation.¹¹

The preferred Fregean theory is this

Strict Structuralism (Compare Masrour, 13)¹²

For e to present mathematical spatial property F (such as triangularity) is for there to be some mathematical theory T with a substructure Uspecifying a role R (the 'triangularity-role'), such that

- (SS1) F uniquely realizes that role R; and
- (SS2) For some object o, e's subject (in e) experiences o as having some property or other realizing that role R

So presentation consists in a 'structural' match between reality and mind reality, in the clause (i) 'realization' requirement; mind, in the clause (ii) 'experiencing-as' requirement.¹³

¹²The official statement suggests an understanding of 'rolerealization' in a 'Ramsified' description of a property as applying to instances of the property, rather than, more conventionally (Lewis 1970b, 81), to the property itself: my paraphrase adjusts the official wording to restore conformity with convention. I hope that any consequent distortion of Masrour's intent is modest enough to preserve some relevance for the following remarks.

¹¹Compare my fn. 5, above.

13 'Experiencing-as' is allied with Fregean 'modes of presentation' (Masrour, 13).

'Ramsification', roles, and realizers 3.2

The 'roles' of Strict Structuralism are 'constructed [by] the procedure [of] Ramsification' (12). Reviewing the surrounding role-realizer apparatus: 14

a theory '
$$T(\ldots,C_i,C_{i'}\ldots)$$
' $\ldots,i,i',\ldots\in I^{15}$
a substructure ' $U(\ldots,C_i,C_{i'}\ldots)$ ' 16
a substitution ' $\varphi(\ldots,C_i,C_{i'}\ldots)$ ' \mapsto ' $\varphi(\ldots,X_i,X_{i'},\ldots)$ ' 17
a theory radical ' $T(\ldots,X_i,X_{i'}\ldots)$ ' 18
an assignment $g:Var\to \text{All The Things}$
a realizing assignment an assgt g s.t. ' $T(\ldots,X_i,X_{i'}\ldots)$ ' are g -true 19
a collective role relation $\langle \lambda X_i \rangle_{i\in I} \wedge T(\ldots,X_i,X_{i'},\ldots)$
a thing-sequence $\langle o_i \rangle_{i\in I} \in (\text{All The Things})^I$
a realizing sequence $\langle o_i \rangle_{i\in I} \in (\text{All The Things})^I$
a realizing sequence $\langle o_i \rangle_{i\in I} \in (\text{All The Things})^I$
a realizing sequence $\langle o_i \rangle_{i\in I} \in (\text{All The Things})^I$
a realizing sequence $\langle o_i \rangle_{i\in I} \in (\text{All The Things})^I$

the ' C_i '-role realizer if all rlzg assgs (or rlzg seqs) agree at j: that one

- ¹⁴Quote-marks flag 'essentially linguistic' entities. For the math here (slightly fancier than the usual), see Hindley and Seldin 2008, Font 2016.
- $^{15}\mathrm{A}$ 'filter' of the sentences of interpreted language \mathcal{L} : a formula algebra of signature ℓ (' \wedge ' \in ℓ) and containing 'constants' $Con (\{C_i \mid i \in I\} \subseteq Con)$ and 'variables' Var: I is an 'index set' of arbitrary cardinality.
- ¹⁶A generating subset of the theory: namely, one for which the theory is the least filter containing the substructure.
- ¹⁷A (capture-avoiding) endomorphism of \mathcal{L} generated by some injection from $\{ C_i \mid i \in I \} \subseteq Con \text{ to } Var.$
- ¹⁸The →-image of the theory. Analogous characterizations for substructure-concepts are available here and below.

The Ramsey sentence $(\exists X_i)_{i\in I} \wedge T(\ldots, X_i, X_{i'}, \ldots)$. It does not, of course, define anything or characterize any role: instead it gives the 'presupposition' or 'synthetic postulate' of the theory—where the 'defining' is done by the 'Carnap sentence', namely 'Ramsey sentence ⊃ Theory': Lewis 1970b, 82.

- ¹⁹Namely, blahblah [your favorite compositional assignment-relative-truth theory for \mathcal{L}].
- ²⁰Namely, the collective role relation holds, sequentially, of the elements of the thing-sequence.

Unique realization?

On (SS1), I doubt that the (unique) 'squareness'-role realizer is out there: no theory in 'pure math' singles out its constant-term realizers determinately.²¹ ²¹The strongest possible model-determinacy condition, Nor is assistance forthcoming from 'extra-theoretic' constraints:²² acquaintance is dialectically out; causality is unavailable; naturalness is a platonist ²²Compare Putnam 1980, Lewis 1984. fond hope.²³

'Experiencing-as'? 3.4

On (SS2), we may canvas certain considerations bearing on the plausibility of its phenomenological predictions:

- 1. The substitution at the bottom of the role-realizer apparatus is in some sense 'syntactic':²⁴ in tension with the thought²⁵ that syntax discrimi- ²⁴Masrour's application may impose heavy cardinality denates the 'conceptual' from the 'perceptual'.²⁶
- 2. The role-realizer apparatus forks into the assignment and relation implementations. Downstream choices pit phenomenology against geometry:
 - (a) Assignment: here the apparatus mentions variables—paradigmatically linguistic entities—and appeal to the apparatus represents a mention of variables as indispensible to understanding experienceas. But (i) this promotes the above 'in some sense' ascription of 'syntactic' character to 'in every reasonable sense'; and (ii) choice of variables would then matter for the description of experience-as: to what could the predicted contrast between 'x'-mode and 'y'-mode *presentation* of triangularity possibly amount?²⁷
 - (b) Relation: here the apparatus only uses variables (in service of coordinating λ -binders with appropriate predicate positions), resolving the worries above.²⁸ But we have now extended a lambdafree geometric base theory with lambda-binding, for phenomenological purposes. Lambda (like all abstraction-forming devices) drives powerfully to inconsistency;²⁹ so this extension will re- ²⁹Untyped lambda calculus defines a fixpoint combinator Y quire an off-ramp. The typing exit strategy would restore the accusation of 'syntacticity' (at intermediate strength). The alternative strategy of nonclassicality³⁰ would find phenomenology demanding of mathematics that it weaken its logic.
- 3. The role-realizer apparatus permits holism, with the pivotal theoryradical containing several distinct free variables. Will Masrour exploit this permission? We may map pitfalls ahead of either choice:
 - (a) If yes (so that presentation of triangularity involves a theoryradical containing substituenda variables not only for 'triangular' but also for, say, 'line'), some way is needed to select that free variable which is 'live'. The assignment strategy offers a conservative option: bind all the others (perhaps with \exists or with η). The 31 But this confronts the pressure in fn. 24. relation strategy in contrast provides an inherent order to the variables: the first lambda-binder marks the first-applied argumentposition; still, calling on 'rotational' combinators to secure proper stack-order imposes further phenomenological demands.³²
 - (b) If no (so that the sole free variable in any theory-radical for a case of presentation of triangularity is the substituend for 'triangular'), a choice: to leave other constants in (restoring Russellianism for the unseen?); or to hope for some substructure generating the root geometric theory, containing but a single geometric constant term (perhaps artificial means can construct such a theory, 33 but for present purposes, the constant must be *nonartifi*- 33 Think *Sheffer stroke*. cial—'triangular').

- categoricity, is only 'up to isomorphism'.
- ²³Maybe some indeterminacy is OK (Lewis 1970a, 228–9; Field 1973): but how much? One view called 'structuralism' (in the Benacerraf 1965 tradition) says any amount—but to me, its 'Fregean' credentials seem scant.
- mands on the needed syntax. Perhaps presentation of triangularity puts in position to know, for each natural n > 3, that it involves fewer sides than *n-gon-hood*; or of twice-as-long-ness that, for each real x > 2, that it it involves a smaller ratio than x-times-as-long-ness. Do these require theories of denumerably, or nondenumerably, infinite cardinality? If so, the joint conjunction required for the collective role relation of the relation strategy, or the existential quantification recommended under (3a) to the assignment strategy, would demand a sentence of denumerably, or nondenumerably, infinite length.
- ²⁵Compare Fodor 2007, Burge 2018.
- ²⁶ Experiencing something as p does not require the concept of p' (Masrour, 13).
- ²⁷For a possible analogue worry for the *relation* strategy, compare fn. 32.
- $^{28} \text{Specifically, the } \alpha$ rule of lambda calculus washes out difference of bound variable.
- with $\mathbf{Y}G = G\mathbf{Y}G$ for all G: against the logical syntax of our geometric theory, this defines such entities as $L = \neg L$ (the fixpoint of $\lambda p. \neg p$) and $C = C \supset \bot$ (of $\lambda p. p \supset \bot$), which, if the geometric theory is classical, swiftly yield 'liar' and 'Curry' paradoxes.
- ³⁰Compare Field 2008, Caie 2020: the former for a lengthy menu of ways with analogue semantic-format paradoxes; the latter for abstraction-format Curry (and an alluring addition to the menu).
- ³²Or perhaps this is somehow guaranteed: if triangularity, squareness, and pentagonality are in a holism when any of the three is *presented*, the collective role relations invoked in seeing an differ, each automatically fronting the appropriate lambda-binder. But I wonder then about a prediction of the phenomenological impact of 'laterposition' binder-order—does $\lambda X_3 X_4 X_5 . \varphi$ contrast in wil from $\lambda X_3 X_5 X_4 . \varphi$?

References

- Benacerraf, Paul, 1965. 'What numbers could not be'. The Philosophical Review, 74:47-73.
- Burge, Tyler, 2018. 'Iconic representation: Maps, pictures, and perception'. In Wuppuluri Shyam and Francisco Antonio Dorio, editors, *The Map and the Territory: Exploring the Foundations* of Science, Thought and Reality, 79–100. Springer.
- Caie, Michael, 2020. 'Bunder's paradox'. Review of Symbolic Logic, 13:829-844.
- Chalmers, David J., 2006. 'Perception and the fall from Eden'. In Tamar Szabó Gendler and John Hawthorne, editors, *Perceptual Experience*. Oxford: Oxford University Press. Reprinted as chapter 12 of Chalmers 2010.
- Chalmers, David J., 2010. The Character of Consciousness. New York: Oxford University Press.
- Dretske, Fred I., 1995. Naturalizing the Mind. Cambridge, MA: The MIT Press.
- Field, Hartry, 1973. 'Theory change and the indeterminacy of reference'. *Journal of Philosophy*, 70:462–81. Reprinted in Field 2001.
- Field, Hartry, 2001. Truth and the Absence of Fact. Oxford: Oxford University Press.
- Field, Hartry, 2008. Saving Truth From Paradox. Oxford: Oxford University Press.
- Field, Hartry, 2009. 'Epistemology without metaphysics'. Philosophical Studies, 143:249-290.
- Fodor, Jerry A., 2007. 'The revenge of the given'. In Brian P. McLaughlin and Jonathan D. Cohen, editors, Contemporary Debates in Philosophy of Mind, 105–116. Blackwell.
- Font, Josep Maria, 2016. Abstract Algebraic Logic: An Introductory Textbook. London: College Publications.
- Hawthorne, John and Karson Kovakovich, 2006. 'Disjunctivism'. Proceedings of the Aristotelian Society, supplementary volume 80:145–83.
- Hellie, Benj, 2010. 'An externalist's guide to inner experience'. In Bence Nanay, editor, Perceiving the World. Oxford: Oxford University Press.
- Hellie, Benj, 2011. 'There it is'. Philosophical Issues, 21:110-164.
- Hindley, J. Roger and Jonathan P. Seldin, 2008. Lambda-Calculus and Combinators, an Introduction. Cambridge: Cambridge University Press.
- Johnston, Mark, 2004. 'The obscure object of hallucination'. Philosophical Studies, 103:113-83.
- Lewis, David, 1970a. 'General semantics'. Synthese, 22:18-67. Reprinted in Lewis 1983.
- Lewis, David, 1970b. 'How to define theoretical terms'. Journal of Philosophy, 67:427–46. Reprinted in Lewis 1983.
- Lewis, David, 1983. Philosophical Papers, volume I. Oxford: Oxford University Press.
- Lewis, David, 1984. 'Putnam's paradox'. Australasian Journal of Philosophy, 62:221–236. Reprinted in Lewis 1999.
- Lewis, David, 1999. Papers in Metaphysics and Epistemology. Cambridge: Cambridge University Press.
- Pautz, Adam, 2007. 'Intentionalism and perceptual presence'. Philosophical Perspectives, 21:495–541.
- Putnam, Hilary, 1980. 'Models and reality'. Journal of Symbolic Logic, 45:464-482.
- Stalnaker, Robert C., 1991. 'The problem of logical omniscience I'. Synthese, 89:425–40. Reprinted in Stalnaker 1999a.
- Stalnaker, Robert C., 1999a. Context and Content. Oxford: Oxford University Press.
- Stalnaker, Robert C., 1999b. 'The problem of logical omniscience II'. In Stalnaker 1999a.