Concepts and the Scrutability of Truth

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The Scrutability of Reference

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 - Once we know enough about the world, we're in a position to know what our concepts and our terms refer to.

Examples

- E.g. 'water'
 - A priori, we don't know what 'water' refers to
 - Could be H2O, XYZ, whatever
 - Once we know enough about the environment, we know that 'water' refers to H2O
 - E.g. given knowledge of appearance, behavior, composition, distribution, history of environmental objects and substances
- Likewise for 'Jack the Ripper', 'Homer', 'gold', and so on.

Nontriviality

- Trivial version: Allow the knowlede in the antecedent to include water-knowledge
- Nontrivial version: Disallow knowledge involving water and cognate notions from the antecedent
- The nontrivial version is plausibly true for many or most terms and concepts
 - Knowledge of underlying truths suffices for knowledge of what 'water', 'Homer', etc, refer to.

Idealization

- Speakers given the relevant knowledge may in fact make mistaken judgments about reference
 - E.g. '68+57'
- But they' re in a position to make correct judgments, given rational reflection
 - I.e. the relevant empirical knowledge plus sufficient rational reflection enables knowledge of reference
- In effect, the scrutability thesis invokes a normative idealization.

Scrutability of Reference II

- For most terms T, there exists a truth D such that D is independent of T and such that knowing that D is true puts the speaker in a position to know the referent of T.
 - D is independent of T when D doesn't contain T or close cognates
 - E.g. for 'water', D might involve truths about appearance, behavior, composition, distribution of environmental objects and substances (plus their relation to oneself).

Problems

- Problem 1: The notion of 'knowing what an expression refers to' is unclear.
- Problem 2: For some expressions, it's unclear (maybe indeterminate) what sort of thing they refer to
 - E.g. 'number', 'symphony', etc.
 - Cf. Quinean inscrutability of reference
- Solution: Move to the scrutability of truth.

Scrutability of Truth

- Scrutability of Truth:
 - Once we know enough about the world, we're in a position to know whether our utterances and our beliefs are true.
- Avoids problem 1
 - The notion of knowing truth-value is relatively clear
- Minimizes problem 2
 - This will only affect a few sentences such as 'two is a set of sets'

Scrutability of Truth II

- For most terms T used by a speaker, and for any truth S involving T, there exists a truth D such that D is independent of T and D is epistemically sufficient for S
 - D is epistemically sufficient for S when knowing that D is the case puts the speaker in a position to know (on sufficient rational reflection, without needing further empirical information) that S is the case.

Scrutability of Truth III

- There is a relatively limited vocabulary V such that for any truth S, there is a V-truth D such that D is epistemically sufficient for S.
- To pare down the vocabulary, just eliminate "scrutable" terms one-by-one according to the previous reasoning.
- A minimal such V is a sort of epistemic basis for actual truths.

From Epistemic Sufficiency to A Priori Entailment

- Knowing D enables knowledge of T without further empirical information
- Stronger thesis: the inference from D to T is justified a priori
 - If empirical knowledge E is needed, just put this in the scrutability base!
 - Even a speaker who suspends all empirical beliefs can know that if D is the case, then T is the case.
 - See Chalmers and Jackson 2001 for detailed argument.

Scrutability of Truth IV

- There is a relatively limited vocabulary V such that for any truth S, there is a V-truth D such that D implies S.
 - D implies S when the material conditional 'D->S' is a priori
 - N.B. This doesn't require that S be definable in terms of V-vocabulary
 - C&J 2001: 'knowledge' in Gettier case.

Epistemic Basis

- Q: How small can an epistemic basis be?
- C&J: PQTI, a conjunction of
 - P = microphysical truths
 - Q = phenomenal truths
 - T = a "that' s-all" truth
 - I = indexical truths (speaker's place/time, etc).
- Yields knowledge of macroscopic appearance, behavior, composition, etc, which suffices for knowledge of ordinary macroscopic truths.

Hard Cases

- Hard cases for PQTI scrutability
 - Vague truths (on epistemic theory)
 - Deep mathematical truths (CH?)
 - Moral/normative truths?
 - Some metaphysical truths?
- Handle hard cases by
 - Indeterminacy of truth-value; or
 - Idealization of apriority; or
 - Expanding the scrutability base (if necessary)

Minimal Basis?

- Further reduction of PQTI: P is arguably scrutable from observational/causal/categorical truths
 - e.g. from underlying Ramsey sentence.
- Observational truths are arguably scrutable from phenomenal/causal/spatiotemporal truths.
- Spatiotemporal truths are maybe scrutable from phenomenal/causal truths
- Leaves phenomenal, causal, spatiotemporal (?), indexical – plus logical, categorical, etc.

Generalizing Scrutability

- Scrutability thesis applies to actual truths
 - But presumably is an instance of something more general
 - E.g. if we knew that our environment is like the XYZ-world, could know that 'water is XYZ' is true
 - Can know non-empirically that if we're in the XYZ-environment, then water is XYZ.
- So we might generalize scrutability from actual truths to arbitrary epistemic possibilities.

Generalized Scrutability

- Generalized scrutability:
 - There's some relatively limited vocabulary V, such that for all epistemically possible S, there's some epistemically possible V-sentence D such that D implies S.
 - S is epistemically possible when S [better: det(S)] is not ruled out a priori.
- Here V is a generalized epistemic basis
 - A scrutability base for arbitrary epistemic possibilities, not just for actual truths
 - A basis for epistemic space?

Conceptual Scrutability

- Conceptual formulation of scrutability
 - There's some limited set of concepts V such that
 - For all true thoughts T, T is implied by some true V-thought
 - For all epistemically possible thoughts T, T is implied by some V-thought
- A thought = a world-directed propositional attitude token (e.g. an occurrent belief or hypothesis)
- Concepts = constituents of thoughts
 - N.B. mental entities, not abstract entities.
 - Concepts have contents but aren't contents.

Primitive Concepts

- Traditionally: primitive concepts = those in terms of which all other concepts can be defined.
 - E.g. a set of primitive concepts V, such that all concepts are a priori equivalent to some V-concept.
 - But: it seems that most concepts can't be defined in this way.
- Alternative: primitive concepts = those in terms of which the application of all other concepts can be determined
 - E.g. application of knowledge can be determined by specification of situation using non-knowledge concepts, so knowledge isn't primitive
 - Application of cause, consciousness, time, exists (??) can't be determined in this way, so these may be primitive.

Conceptual Basis

- A conceptual basis = a minimal set of concepts that serves as a basis for conceptual scrutability
- Primitive concepts = members of a conceptual basis?
 - There may be multiple conceptual bases, some with cognate concepts, etc, some fairly complex, etc
 - May end with circles of (cognate) primitive concepts
 - E.g. cause, law, natural necessity, counterfactual dependence?
 - And might require a maximally simple conceptual basis.
- Candidates for primitive concepts:
 - Phenomenal concepts, causal concepts, logical and mathematical (?) concepts, categorical concepts, spatiotemporal (?) concepts.

Epistemic Space

- Can use a conceptual basis to define a space of epistemic possibilities
 - A V-thought T is complete iff for any thought T1 such that T1 implies T, T implies T1.
 - Complete thoughts correspond to maximally specific epistemically possible hypotheses.
 - A maximal epistemic possibility (= scenario) is an equivalence class of complete V-thoughts (under mutual implication)

Epistemic Truth-Conditions

- Given a complete V-thought, the truth-value of a given thought T will be implied: e.g.
 - V1 implies T
 - V2 implies ~T
- T is associated with epistemic truth-conditions
 - T is true relative to scenario S1 [tied to V1]
 - T is false relative to scenario S2 [tied to V2]
- Can call this the epistemic content of T.

Inferential Role

- Epistemic content is a variety of truth-conditional content that is tied constitutively to inferential role
- The epistemic content of T is a function of its (normative) inferential role relative to V-thoughts
 - E.g. normative dispositions to judge T or ~T, given the judgment that V1.
- Given the understanding of implication in terms of a priori entailment, this is a tie between truth-conditions of thought and a priori inferential role.

Epistemic Content of Concepts

- Can extend this account to an account of the epistemic content (epistemic application-conditions) of concepts
- For a (singular) concept C, there will be implications
 - V1 implies *C=X1, C=X2, ...,*
 - Where X1, X2, are descriptive V-concepts
 - Equivalence classes of descriptive V-concepts (relative to V1)
 can be associated with individuals in the scenario S1.
 - So relative to S1, C picks out the corresponding individual
 - Relative to S2, C picks out an individual in S2, and so on.
- Similarly (mutatis mutandis) for general concepts, kind concepts, property concepts, etc.

Concept Individuation

- Concept types can be individuated in various ways
- One way: two concepts are of the same type when they have the same epistemic content
 - This provides an individuation of concept types by a priori inferential role
- More fine-grained than extensional individuation
 - Hesperus and Phosphorus are of different types
- More coarse-grained than Fregean individuation
 - 68+57 and 115 are of the same type
- This coarse-graining is inevitable (?) given individuation in terms of apriority, as opposed to cognitive significance

Narrow Content

- Epistemic content is arguably a form of narrow content, as long as
 - Conceptual bases correspond between twins
 - If V is a conceptual basis for one subject, a corresponding set of concepts V' is a conceptual basis in a duplicate.
 - Implication is narrow
 - When T1 implies T2 in one subject, and a duplicate subject has corresponding thoughts T1' and T2', then T1' implies T2'.
- These allow us to identify scenarios across subjects
- The epistemic content of a thought T will be the same as the epistemic content of a corresponding thought T' in any duplicate.

Naturalizing Content

- Could this account be used to "naturalize" epistemic content?
 - Issues1: the account doesn't yield a substantive account of the content of primitive concepts
 - Issue 2: it appeals to an unreduced notion of implication (or apriority).
- But: it grounds the content of all concepts in the content of primitive concepts and a notion of implication (inferential role).
 - Will need a separate account of the content of primitive concepts (phenomenal intentionality?) and of inference
- A two-stage grounding of content?

Meaning and Truth

- More generally, the scrutability theses (if accepted) places a strong constraint on theorizing about meaning and truth
 - Links inferential role and reference/truth
 - In tension with many causal theories of content, with epistemic theory of vagueness, etc?
 - Coheres with a broadly Fregean view
 - Tends to support anti-realism about inscrutable domains
 - E.g. in metaphysics: the deep ontology of objects?
 - Captures the plausible core of stronger and implausible anti-realist views?