Minds and Machines spring 2003

Content: intentionality and externalism



from the philosophical toolkit:

extrinsic and intrinsic properties

perfect duplicates:

not-so-perfect duplicates:

extrinsic and intrinsic properties

the all-purpose duplicating machine



extrinsic and intrinsic properties

 property P is intrinsic iff it is necessarily shared between perfect duplicates





- otherwise, P is extrinsic
- (there are many complications here, but we will ignore them; see the <u>handout</u> on properties and particulars)

extrinsic and intrinsic properties

- being cylindrical
- having mass 200g
- being red (intrinsic)



- being a Campbell's soup can
- having weight 200g
- being in the cupboard (extrinsic)



are mental properties intrinsic?

yes, according to:

- Descartes (well, arguably)
- the identity theory (taken as theory of all mental states, not just properties like being in pain)
- functionalism and behaviorism (on one natural way of spelling these theories out)
- commonsense(?)

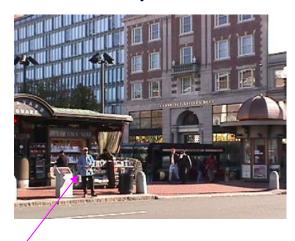
are mental properties (of kind K) intrinsic?

- yes, according to internalism (about mental properties of kind K)
- no, according to externalism (about mental properties of kind K)
- we are about to look at some famous arguments for externalism about "propositional attitude" properties like wanting a glass of water, believing that Cambridge is pretty, etc.

a "twin earth" thought experiment

Cambridge and twin-Cambridge

Harvard Square



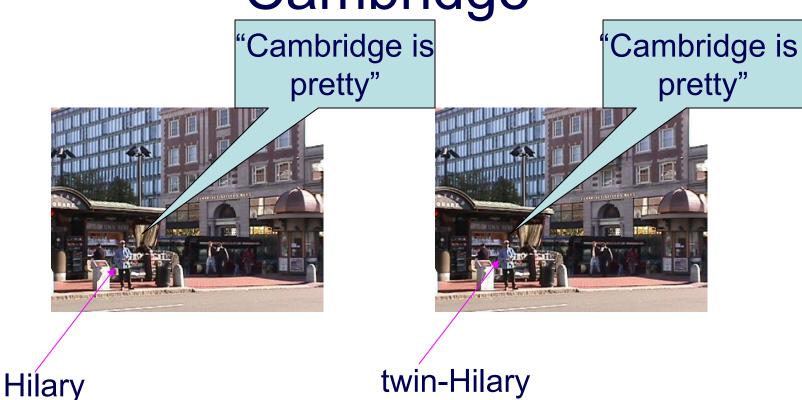
Hilary

twin-Harvard Square



twin-Hilary

Cambridge and twin-Cambridge



different utterances

- Hilary's utterance is about Cambridge (not Twin-Cambridge, of which he has never heard)
- his utterance is true iff Cambridge is pretty
- the aesthetics of twin-Cambridge are totally irrelevant—if we imagine that twin-Cambridge is an imperfect duplicate of Cambridge (a twin Harvard Square, but exceptionally attractive elsewhere), then Hilary's utterance remains false, although twin-Hilary's utterance is true





different thoughts

- Hilary's thought is about Cambridge (not Twin-Cambridge, of which he has never heard)
- his thought is true iff Cambridge is pretty
- the aesthetics of twin-Cambridge are totally irrelevant—if we imagine that twin-Cambridge is an imperfect duplicate of Cambridge (a twin Harvard Square, but exceptionally attractive elsewhere), then Hilary's thought remains false, although twin-Hilary's thought is true

"The meaning of 'meaning'"

- this contains the original presentation of the "twin earth" thought experiment
- Putnam drew the conclusion that meanings aren't "in the head" (i.e. aren't intrinsic), not that thoughts aren't in the head
- this paper is quite difficult, and we won't discuss everything in it

"The meaning of 'meaning"

intension and extension

- the extension of a term (e.g. 'rabbit', 'creature with a kidney') is "the set of things the term in true of"
- so 'creature with a kidney' and 'creature with a heart' have the same extension
- the intension of a term is its "meaning", in the intuitive sense
- so 'creature with a kidney' and 'creature with a heart' have different intensions

"two unchallenged assumptions"

- knowing the meaning of a term is just a matter of being in a certain psychological state
- the intension of a term determines its extension (in the sense that sameness of intension entails sameness of extension)

"two unchallenged assumptions"

"I shall argue that these two assumptions are not jointly satisfied by any notion, let alone any notion of meaning. The traditional concept of meaning is a concept which rests on a false theory."

"methodological solipsism"

"no psychological state, properly so-called, presupposes the existence of any individual other than the subject to whom that state is ascribed."

if this is right, then:

- being jealous of Smith
- seeing Jones
- knowing that the cat is on the mat
- remembering last night's party

are not psychological states, properly so-called

psychological states, according to ms, are "narrow"

the first "unchallenged assumption", stated more precisely

 knowing the meaning of a term (knowing that intension I is the meaning of term A) is just a matter of being in a certain *narrow* psychological state

consequences of (I) and (2)

- suppose Oscar₁ and Oscar₂ are in the same narrow psychological states, and that Oscar₁ knows that intension I is the meaning of term A
- by (1), if Oscar₁ knows that I is the meaning of A, then Oscar₂ knows that I is the meaning of A
- if Oscar₁ and Oscar₂ both know that I is the meaning of A then Oscar₁ and Oscar₂ both use A with the same meaning or intension
- by (2), A as used by Oscar₁ has the same extension as A as used by Oscar₂

"It is this last consequence...that we claim to be false. We claim that it is possible for two speakers to be in exactly the *same* psychological state (in the narrow sense), even though the extension of the term A in the idiolect of the one is different from the extension of the term A in the idiolect of the other. Extension is not determined by psychological state."

Putnam's twin earth



earth



twin earth

a perfect duplicate of earth, except...

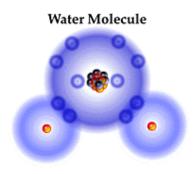
Putnam's twin earth





earth

twin earth



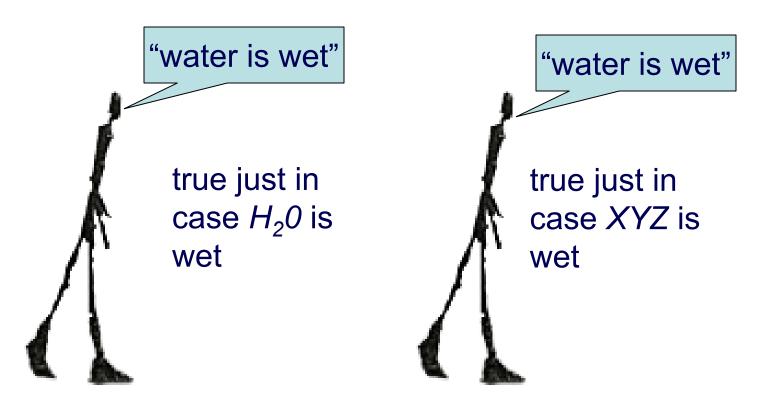
...the oceans and lakes contain "XYZ", which is a very different chemical kind from H₂O, although superficially like it at normal temperatures and pressures



- let us ignore the complication that our bodies contain lots of H₂O
- further, let's pretend that no one (on earth or twin earth) knows any chemistry (accomplished in Putnam's example by "rolling the time back to about 1750")

twin-Gene singing in XYZ on twin earth





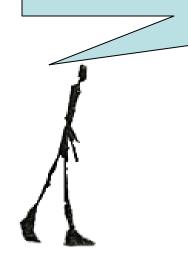
Oscar₁ (on earth)

Oscar₂ (on twin earth)



So, the extension of 'water' as used by Oscar₁ is different from the extension of 'water' as used by Oscar₂, despite the fact that they are "in the same psychological state"

"Cut the pie any way you like, "meanings" just ain't in the head!"





But doesn't Putnam's example also show that *thoughts* aren't in the head? Oscar₁ has beliefs about *water*, Oscar₂ has beliefs about *twater*

• it was soon realized that Putnam's example, if it shows anything at all, shows that some mental properties (like the property of believing that water is wet) are not intrinsic

"Individualism and the mental"

- Putnam's example arguably shows that differences in the subject's environment (e.g. H₂O vs. XYZ) can by themselves make a mental difference
- Burge's examples purport to show that differences in the subject's linguistic community can by themselves make a mental difference





- stage 1
- Alfred has various beliefs about arthritis: that he has had arthritis for years, that stiffening joints is [are] a symptom of arthritis... (all true) and:
- that he has arthritis in his thigh (false, because arthritis in an inflammation of the joints)

Burge's thought experiment /



stage II

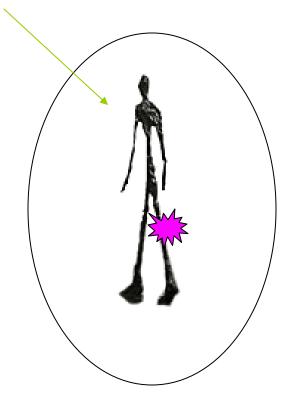
- a "counterfactual situation" (a non-actual possible world) in which Alfred is exactly the same in all intrinsic respects, but lives in a slightly different linguistic community
- in this community, 'arthritis' applies "not only to arthritis, but to various other rheumatoid ailments"
- in the language of this community, 'Alfred has arthritis in his thigh' is true

Burge's thought experiment /



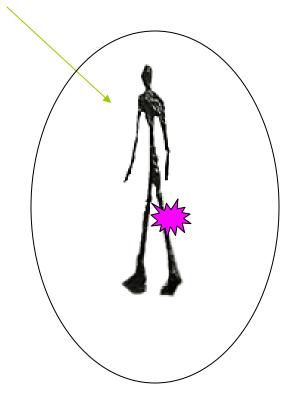
- stage III
- an "interpretation of the counterfactual case"
- Alfred has no beliefs about arthritis (in particular, he doesn't believe that his has arthritis in his thigh)
- instead, he has beliefs about the sort of general rheumatoid ailment that is labelled in his community by the word 'arthritis'

Alfred with arthritis beliefs



@ (the actual world)

Alfred (a duplicate of Alfred as he is in @) without arthritis beliefs



w₁ (the counterfactual situation)

Minds and Machines spring 2003

- read Brentano, Clark & Chalmers
- read Crane on internalism and externalism
- first paper draft due in recitation