Mc Dermott, ch. 3, cont'd

A note on aspects of "meaning" of symbolisms. - denotational semantics I Kose 34 - an actual (allows a definition of truth specific rose Robbie the set of all and of sound inference) the robot seeing relationships - operational semantis : in the world how the symbolism enables/supports cognitive processes & action - conceptual semantis : How symbolic representations ave structured & related to one another (often, how complex conceptual representations are built up out of a set of primitives) - causal semantics : How internal symbolic representations are "caused" by interaction with the world (perception verbal communication), & in turn how the representations cause the agent to act on the world . -· McDermott: Representation as "resemblance" Ebut this seekes more true for analog representions es diagrams, than purely symbolic ones (see above)] · Self-model : crucial to consciousness Confusing discussion of "I" (not worth trying to sort out, IMHO) - symbol for the agent? "I" is the creature who makes decisions Literal quotes - an active "module"? or scare quotes? "I" is an object of the self-model p123: "Robot 1 believes Robot 2 to have (or be) a self Like its own 'I'" [?? A symbol is not a "self"

2.

Mc Dermott, ch. 3, cont'd + ch. 4

Self-model, cont'd

- Self-fulfilling self-ascribed properties:
 e.g., having certain intentions [TBut from a Baars / Libet perspective, conscious intentions are high-level abstractions "posted" by prior unconscious processing.]
- · Location : Apparently in left hemisphere, near speech centers (Gazzaniga)
- Autobiographical (episodic) memory
 "seems to call for a general internal representation"
 [ok!] ... but this is "far-fetched" [why??]
- "Being cognizant of" = "self-model having access to a representation of"
- p126-130 : Thought experiments about language separate from conscionsnes [hmm...]

ch.y: Objections & Replies

 Argues against "raw feels" without a representation in the self-model (or accessible to it?) (contra Ned Block, Michael Tye, Larry Shapiro,...)
 <u>Shapiro</u>: it's the tickling/barking that I experience not my awareness of these sensations?
 <u>McD</u>: Sure, but for the sensations to be <u>conscious</u> they must be represented in the self-model [What about "absorption"? How does accessibility

"turn on" consciousness?]

Mc Dermott, ck. 4, cont'd

- Qualia (reiterating): "A quale is nothing but the brain's way of thinking about its own sensory comparison system" [so, qualia = 2nd order thought ?]
- · Computers why aren't they conscious yet? Ans.: Impoverished mental world [babies?]

(See more "picturesque" versions, upcoming slides)

Zombies (absent-qualia argument) : McD. imagines Chalmers' zombie double arguing it (unlike its supposed double) is conscious! · Mary, the color-deprived color theorist (Frank Johnson's disproof of materialism) McD .: Mary will say "Now I know red looks like this but "this" is gibberish from an external perspective - an arbitrary internal symbol - better: partern [But surely she does learn something, subjectively?!] · Inverted spectra (twins) McD: Intersubjective comparisons are meaningles Eyet I suspect your blue/pain/etc. are much like mine!] · What's it like to be a bat? (T. Nagel) McD : same as for inverted spectra · Searle's Chinese Room (neither the person nor the rule book have any awareness of what's going on ...) McD. : The system as a whole does ... [if fast enough?] · Block's billion-people brain sinculator McD : Intuition should yield to reason · Qualms about brain as confederacy [self => self model

Some fun topics concerning phenomenal consciousness (see McDermott ch.4)



The real David Chalmers:

I experience qualia, but conceivably, I could have a double who is just like me but experiences nothing!

Zombie-universe Chalmers:

I experience qualia, but conceivably, I could have a double who is just like me but experiences nothing!



Key considerations:

Partial zombies ...

- Captioning glasses
- Sleepwalkers
- Blindsight
- Cognitive robots





Mary, the color perception expert: (Frank Johnsons' thought experiment)

I've grown up in a black-and-white lab, but I fully understand how my brain would process the sight of a red rose!

Wow, I didn't expect that!

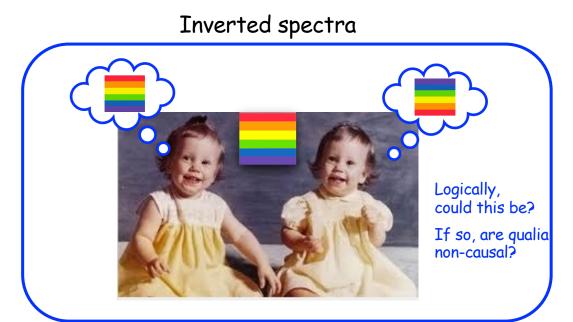
I've learned something new!

(Therefore qualia are not explained by neuroscience.)

Key considerations:

- Purely symbolic self-modeling
- Self-models with "signal sites"

BTW, McDermott invokes something like "signal sites", but says they are "gibberish" from an external, linguistic perspective.



John Searle's "Chinese Room"



Searle knows no Chinese, vet "converses"	If you see this shape, "什麼" followed by this shape, "帶來" followed by this shape, "快樂"	
	then produce this shape, "為天" followed by this shape, "下式".	

Key considerations:

- Might the "system" of {room
 + stored information + Searle}
 be conscious & intelligent?
- Would the required storage fit into the universe?
- Does Di Li's (MS Asia) hugely popular "Xiaoice" implement Searle's idea?



For dialog examples see http://nautil.us/issue/33/attraction /your-next-new-best-friend-mightbe-a-robot

Key considerations:

- Near-identical brains => near-indentical gualia??
- What about less similar brains?
- What about robots, bees, aliens?
- Relevance of qualia topology