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**From:** jeffrey E. <jeevacation@gmail.com>  
**Sent:** Monday, March 6, 2017 8:24 PM  
**To:** Joscha Bach  
**Subject:** Re:

i see it as a complex system agents are building many things. dependent on the local condition. some take off as useful in other parts of the system, monkeys using tools? I think the term intelligence is too vague. a crab using a lure to catch its prey. is a bio inspired prosthetic. it arguably evolved. but can't be sure.

On Mon, Mar 6, 2017 at 3:44 PM, Joscha Bach <[REDACTED]> wrote:

So you don't think that practical intelligence is the ability to build arbitrary prosthetics?

I agree that humans share an important similarity with cells, i.e. they have mechanisms that suppress individual competition when it conflicts too much with group selection. Without such mechanisms, group selection fails, because within each group, defectors have a local advantage.

The simplest mechanism to enforce cooperation is reputation, but it works only when others are looking, and manage to keep tallies. To do better than that, evolution has to breed a virtual next level regulator into the individual, which may be your missing "top down for humans". A system of norms and taboos, for instance a religion or ideology that people pick up from their environment.

Individuals can decide but in social contexts, the utility of decisions is given by how well we understand the constraints under which we operate.

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Am Mar 6, 2017 um 10:50 AM schrieb jeffrey E. <jeevacation@gmail.com  
<mailto:jeevacation@gmail.com> >:

no, i disagree = the spaceship is only an advanced prosthetic. . . not interesting at all. . interesting is we have no idea what the top down for humans is. . collective . group behavior, I don't see any difference between humans and cells , just a different layer of the same. . regulatory systems. actions = feedbacks and "learning " ,. all with no goal . the goals are illusions. . that the indiv thinks they decide. like the soldier ant that is recapitulated to a garbage ant if the garbage ant= are wiped out. the soldier ant thinks it made the decision. .

On Mon, Mar 6, 2017 at 11:25 AM, Joscha Bach <[REDACTED]>  
<mailto:[REDACTED]> > wrote:

Exactly! Sensors like that are often one of these solutions that get you 80% of the way with 20% of the effort. Except that minds that take 15 years to train are dramatically more expensive than almost no species can afford them (but they end up getting you to the moon, which no prosthesis can).

Am Mar 6, 2017 um 7:08 AM schrieb jeffrey E. <jeevacation@gmail.com>  
<mailto:=eevacation@gmail.com> >:

they may have physical prothesitcs like cat whiskers. to enable it to guage width  
of hole. like A0

On Sun, Mar 5, 2017 at 8:03 PM, Joscha Bach <[REDACTED]> wrote:

Most animals don't have a self model, probably because they don't have  
complex enough brains or long enough training phases (childhoods) to do meta-regulation.

> On Mar 5, 2017, at 16:48, jeffrey E. <jeevacation@gmail.com>  
<mailto:jeevacation@gmail.com> > wrote:

>

> Law of large numbers is all that is needed

> On Sun, Mar 5, 2017 at 5:46 PM Joscha Bach <[REDACTED]>  
<mailto:joscha.bach@gmail.com> > wrote:

>

> I am not sure how to relate that to game theory; you may be able to get that  
without evolutionary competition. However, game theory is probably the way to explain how we evolve submission to  
norms beyond indirect reciprocity.

>

>

>> On Mar 5, 2017, at 12:12, jeffrey E. <jeevacation@gmail.com>  
<mailto:jeevacation@gmail.com> > wrote:

>>

>> i wonder in game theory what advantage it gives. .

>> On Sun, Mar 5, 2017 at 12:11 PM, Joscha Bach <[REDACTED]>  
wrote:

>> absolutely. so are truth and meaning

>>

>> Am 05.03.2017 um 11:52 schrieb jeffrey E. <jeevacation@gmail.com>  
<mailto:jeevacation@gmail.com> >:

>>

>>> i is a mental construct that gives an evolutionary advantage, .

>>>

>>> On Sun, Mar 5, 2017 at 11:29 AM, Joscha Bach <[REDACTED]>  
wrote:

>>> I believe that I think, but am "I" the agent of thinking?

>>>

>>>

>>>

>>>

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>>>> On Mar 5, 2017, at 08:34, jeffrey E. <jeevacation@gmail.com> wrote:

am "

>>>  
>>> I suggest the expression really should be "I think, therefore I believe I

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