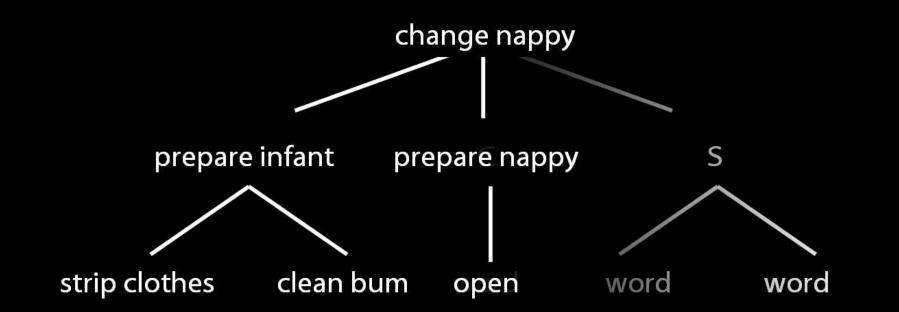


/i//z//e//b//e//l//s//l//e//p//t//e//n//d//l//i//l//i//k//r//a//i//d/

lızəbelšleptəndlılıkraıd



... /reach X/ /grasp X/ /grasp Y//e//n//d//l//i//k//r//a//i//d/

... [reach-left-hand X] [left-whole \exists n d | I | I k r a I d





"We are stuck with our two main ways of describing and explaining things, one which treats objects and events as mindless, and the other which treats objects and events as having propositional attitudes. I see no way of bridging the gap"

(Davidson 2003: 697)

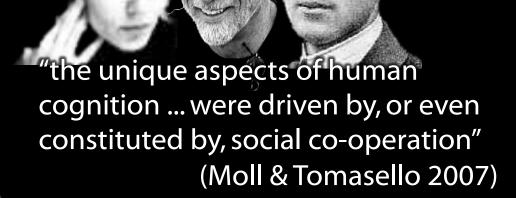
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(Davidson 2003: 697)





"perception, action, and cognition are grounded in social interaction" (Sebanz & Knoblich 2008)



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Tracking, Measuring and Representing Beliefs

What is Core Knowledge (or Modularity)?

Radical Interpretation

Actions, Intentions and Goals

Goal Ascription: the Teleological Stance and Motor Awareness

What Is Joint Action?

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What Is Joint Action?

October 10:

Sugden, R. (2000). Team preferences.

October 24:

Matthews, R. J. (1994). The measure of mind

October 31:

Davidson, D. ([1984] 1973). Radical interpretation.

November 14:

Bratman, M. (1984). Two faces of intention.

not adequately understanding

not adequately understanding

Objectivity

Could there be mindreaders who are able to identify differences in belief despite not understanding what it is for a belief to be true or false?

Self-awareness

Does being a mindreader entail being able, sometimes, to identify one's own mental states and actions?

Evidential basis

What evidence could in principle support the ascription of a particular belief to a given subject, and how does the evidence support the ascription?

Holism

Could there be mindreaders who can identify intentions and knowledge states but not beliefs?

a puzzle

Infants' false-belief tracking abilities

Infants' false-belief tracking abilities

Violation of expectations

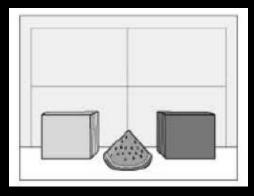
- with change of location

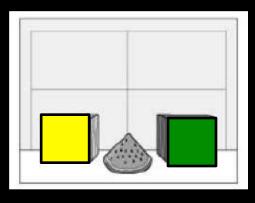
(Onishi & Baillargeon 2005)

Anticipating action

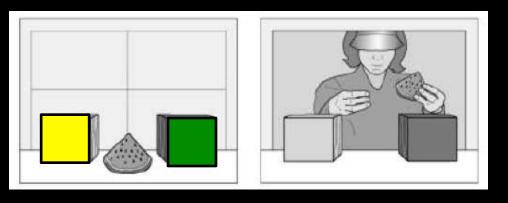
- pointing

(Knudsen & Liszkowski 2011)

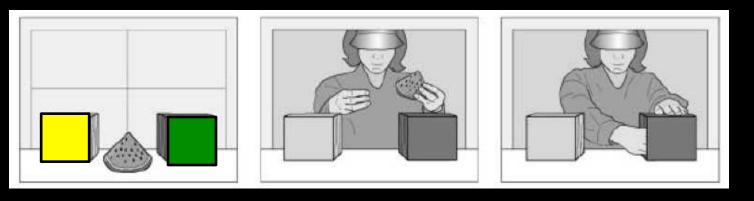




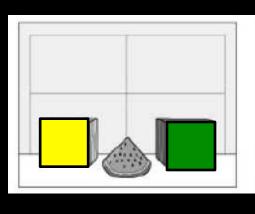
Yellow Green



Yellow Green

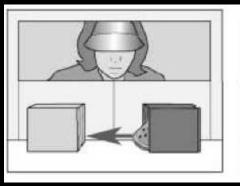


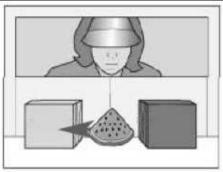
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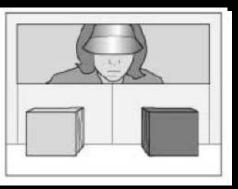


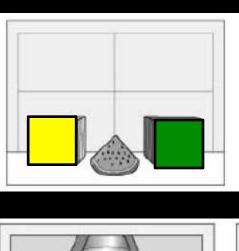






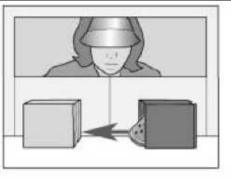


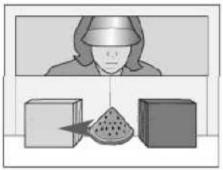


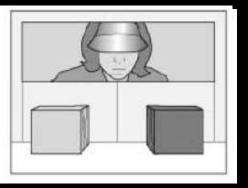


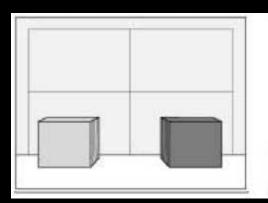




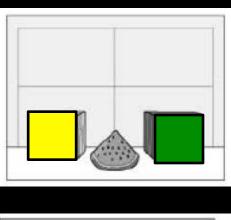






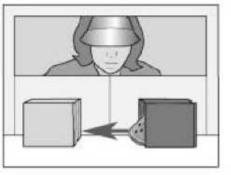


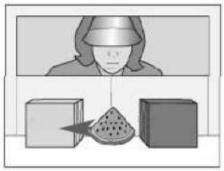


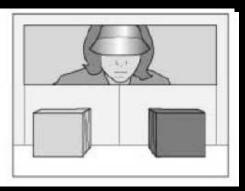


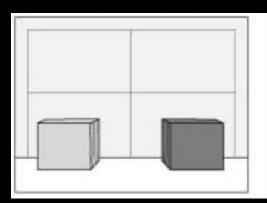




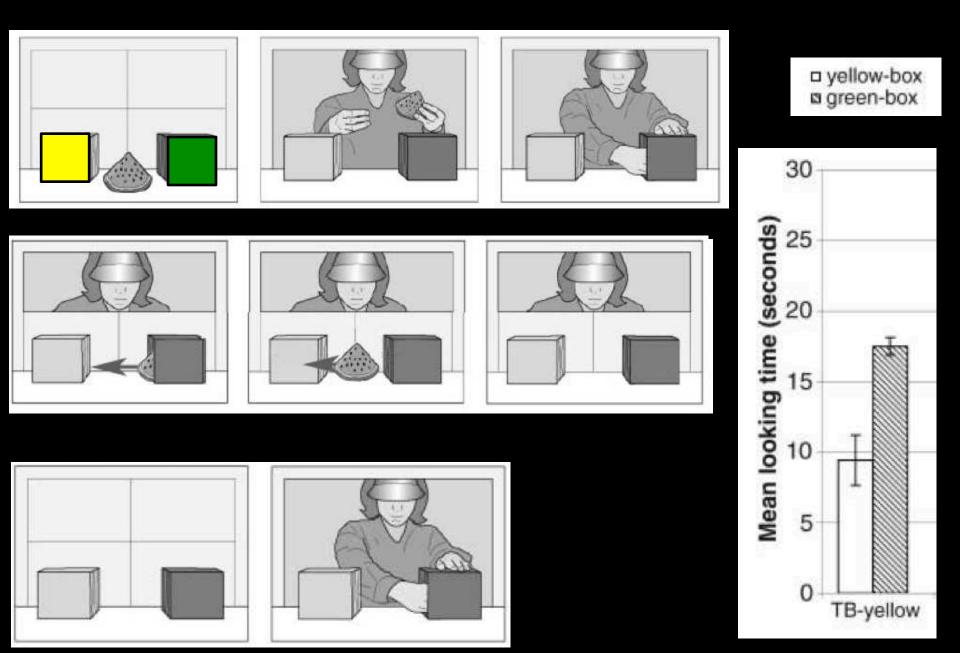








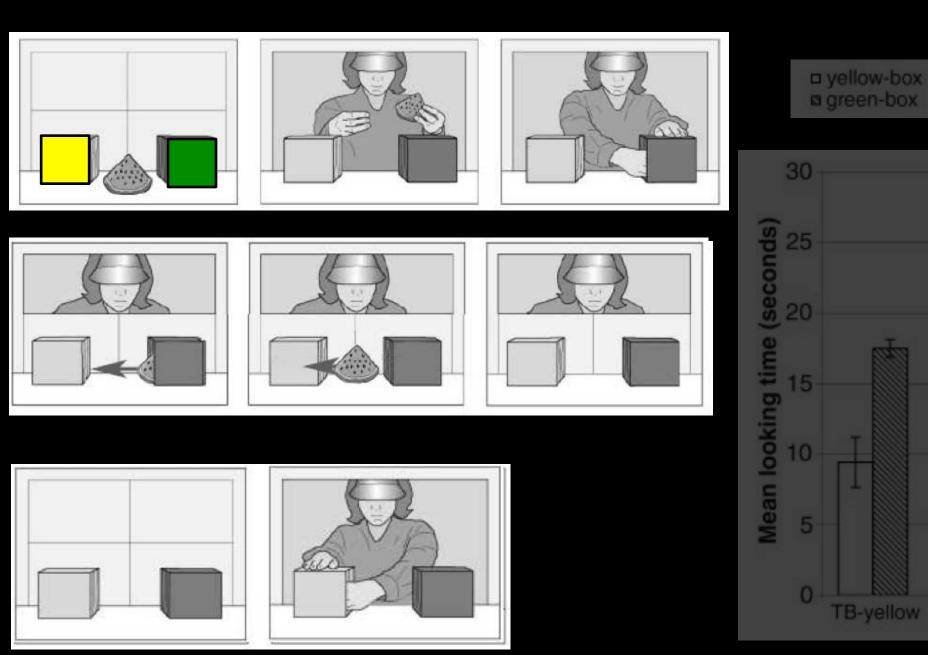




Onishi & Baillargeon (2005)



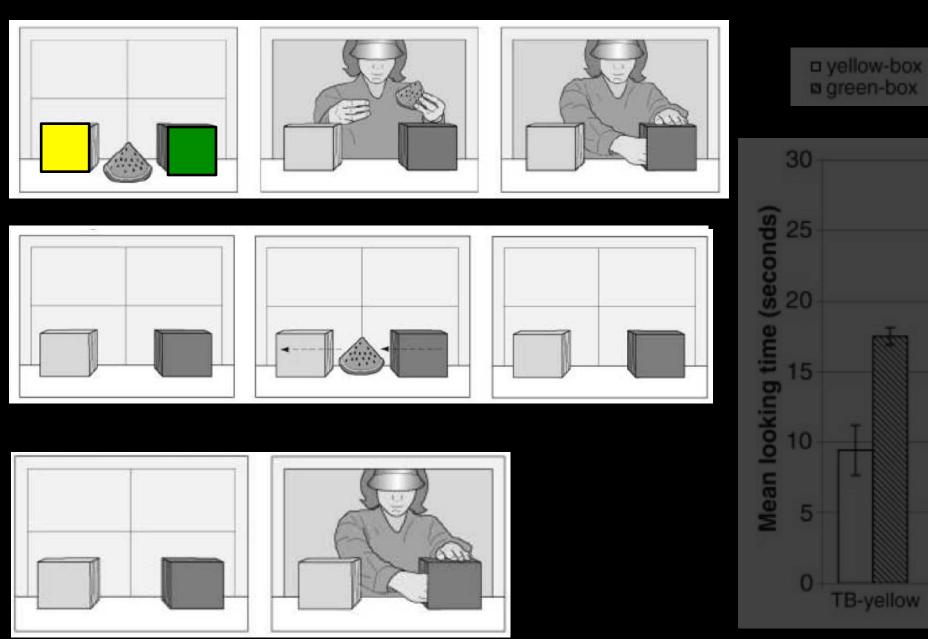
Onishi & Baillargeon (2005)



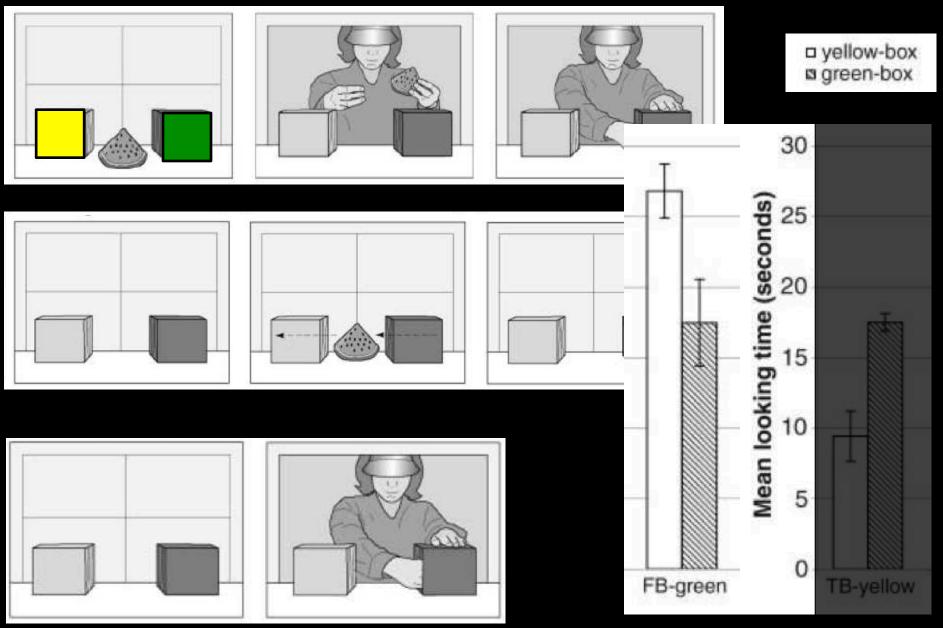
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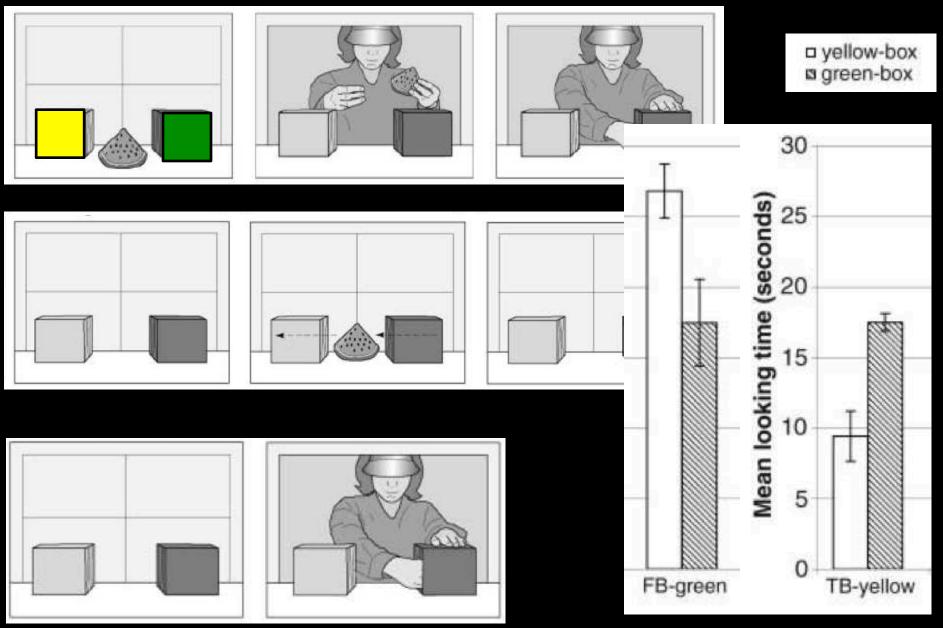
Onishi & Baillargeon (2005)



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Knudsen & Liszkowski (2011)



Knudsen & Liszkowski (2011)

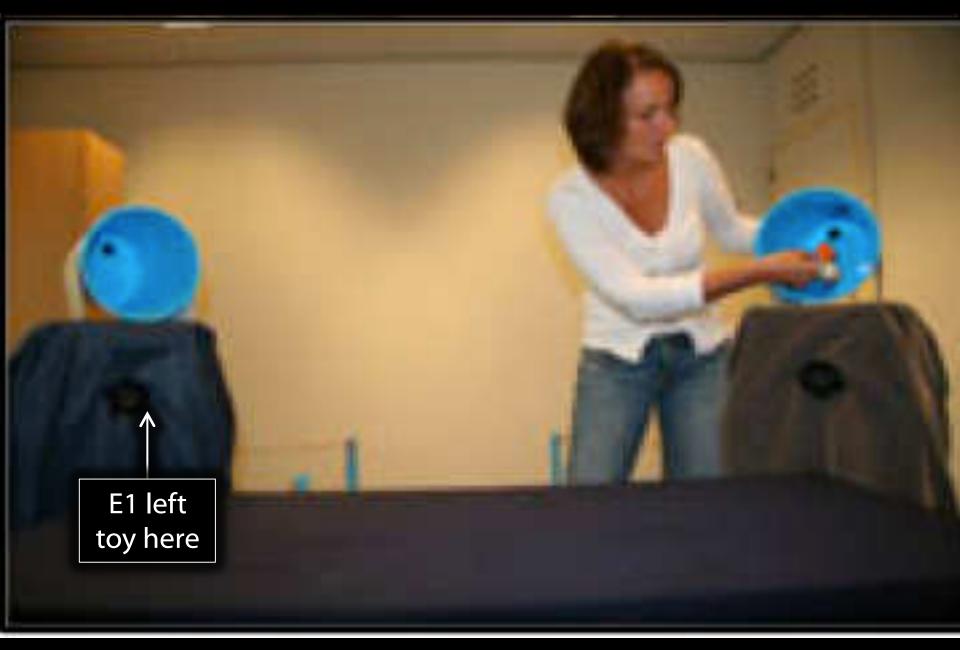


Knudsen & Liszkowski (2011)











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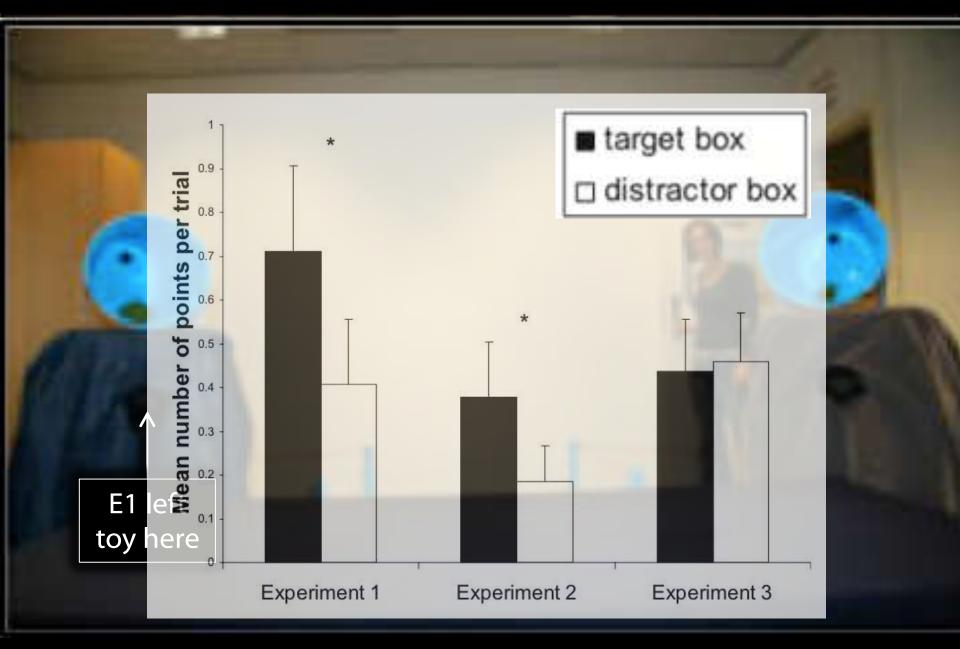




Knudsen & Liszkowski (2011)



Knudsen & Liszkowski (2011)



Knudsen & Liszkowski (2011)

Violation of expectations

- with change of location

(Onishi & Baillargeon 2005)

Anticipating action

- pointing

(Knudsen & Liszkowski 2011)

Violation of expectations

- with change of location

- with deceptive contents

- observing verbal commⁿ

(Onishi & Baillargeon 2005)

(He et al 2011)

(Song et al 2008; Scott et al 2012)

Anticipating action

- looking

- pointing

(Southgate et al 2007)

(Clements et al 1994)

(Knudsen & Liszkowski 2011)

Helping

(Buttlemann et al 2009)

Communicating

Altercentric interference

(Southgate et al 2010)

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Violation of expectations

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- 1. There are subjects who can pass A-tasks
- 2. These subjects' success on A-tasks is explained by the fact that they **can** represent (false) beliefs

prediction

- action
- desire

retrodiction or explanation

(Wimmer & Perner 1983)

(Astington & Gopnik 1991)

(Wimmer & Mayringer 1998)

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retrodiction or explanation select a suitable argument

own beliefs (first person)

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nonverbal response

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erner 1983) **Gopnik** 1991) layringer 1998) **B-tasks** al 1989) 9; Low 2010 exp.2) 1994;

996)

Children tend to pass them some time after their third birthday.

Abilities to pass these tasks has a protracted developmental course stretching over months if not years.

Success on these tasks is correlated with developments in executive function and language

Success on these tasks is facilitated by explicit training and environmental factors such as siblings

Abilities to succeed on these tasks typically emerge from extensive participation in social interactions

B-tasks

1. There are subjects who

cannot pass B-tasks.

3. These subjects' failure on B-tasks is explained by the fact that they **cannot** represent (false) beliefs

- 1. There are subjects who can pass A-tasks but cannot pass B-tasks.
- 2. These subjects' success on A-tasks is explained by the fact that they **can** represent (false) beliefs
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All B-tasks impose a requirement (or set of requirements) other than the requirement to represent a false belief.

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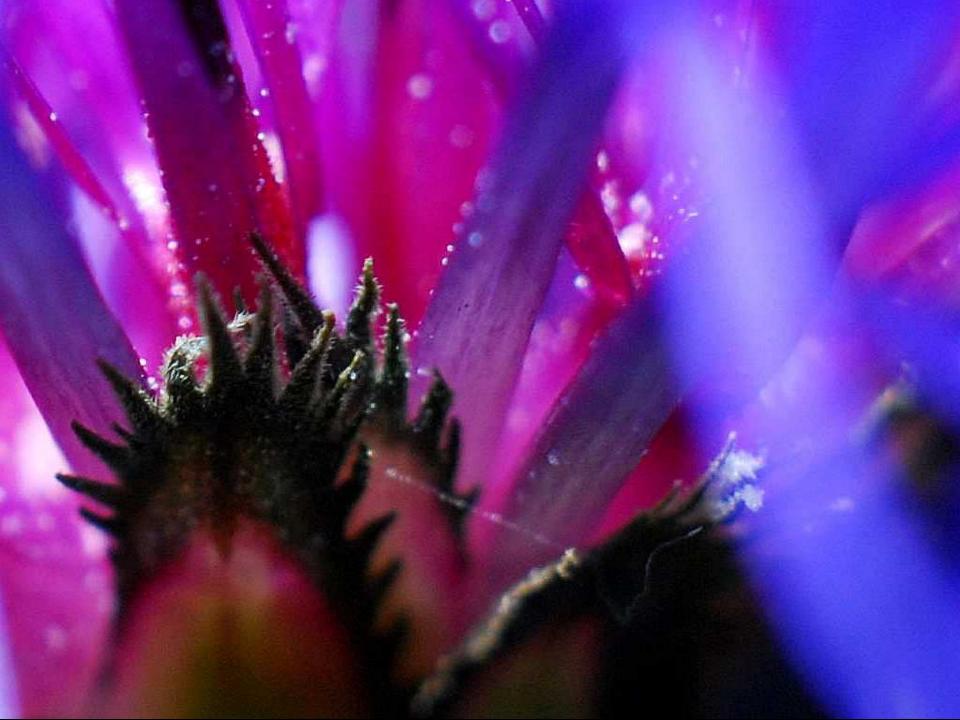
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not adequately understanding





motion

ounc

not adequately understanding

'joint action [is] any form of social interaction whereby two or more individuals coordinate their actions in space and time to bring about a change in the environment.'

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