

Shared Agency and Motor Representation

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Shared Agency

Two sisters cycling to school together.

Members of a flash mob simultaneously open their newspapers noisily



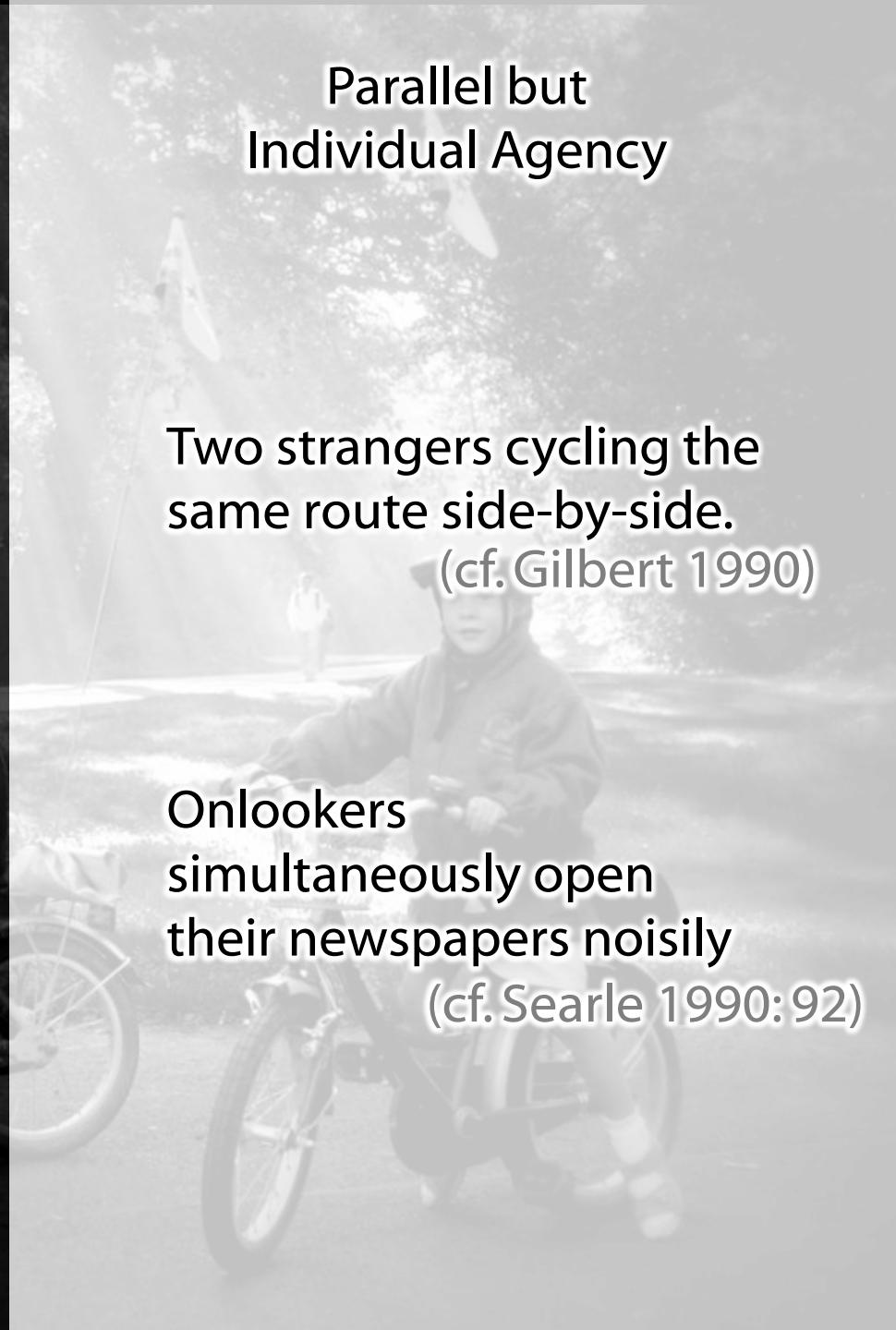
Parallel but Individual Agency

Two strangers cycling the same route side-by-side.

(cf. Gilbert 1990)

Onlookers simultaneously open their newspapers noisily

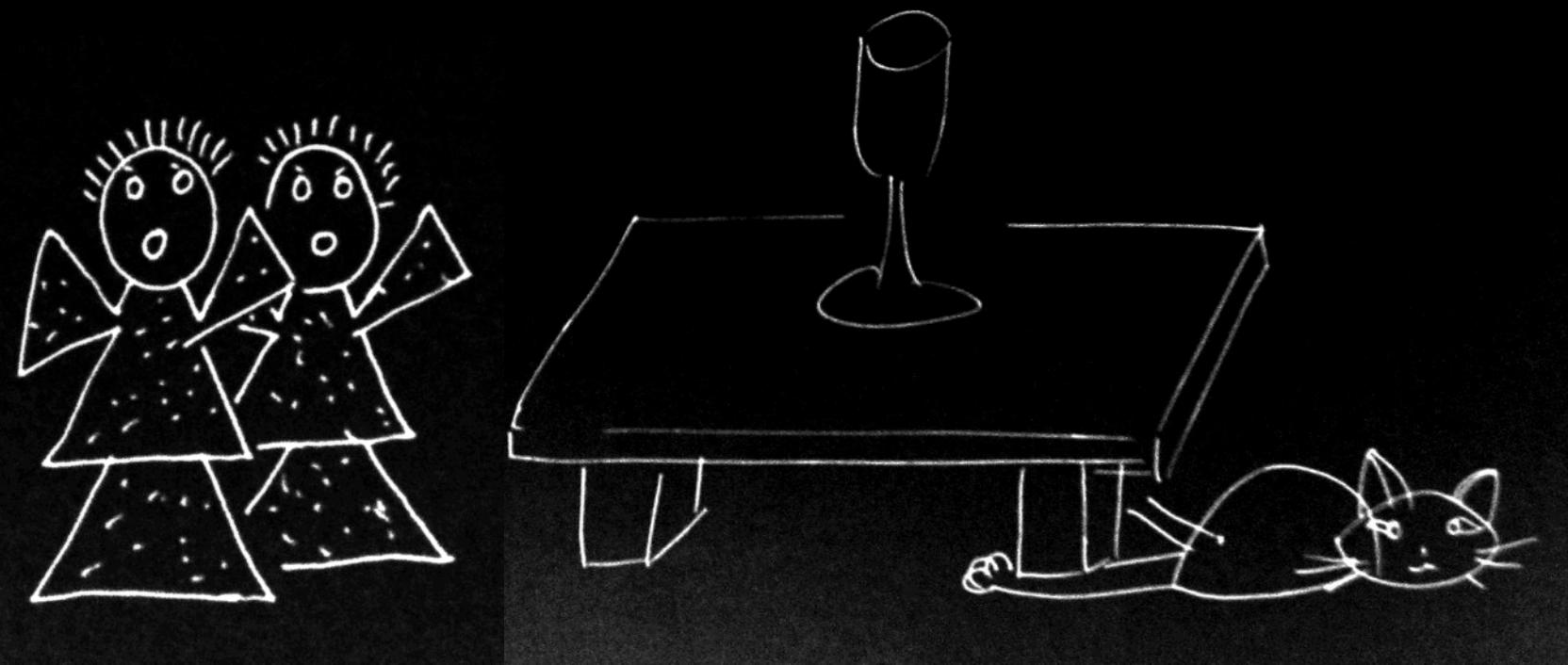
(cf. Searle 1990: 92)



What is the relation between a purposive ^{joint}action and the goal or goals to which it is directed?

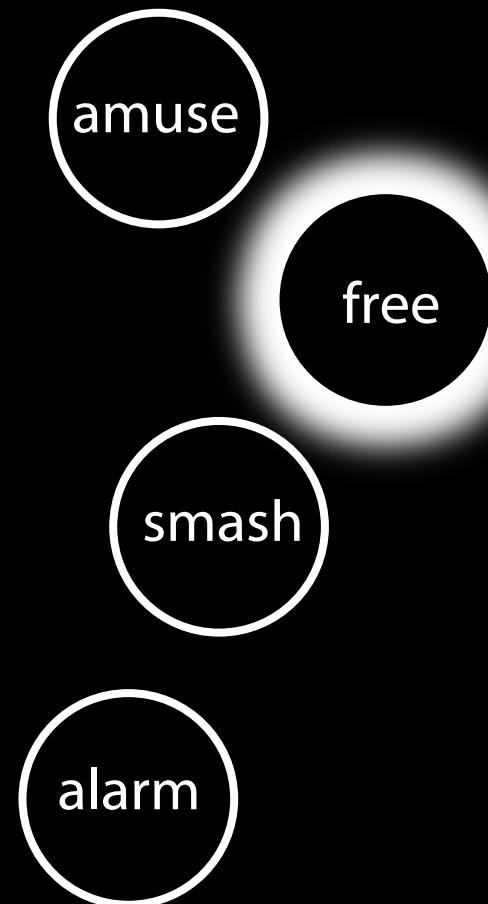
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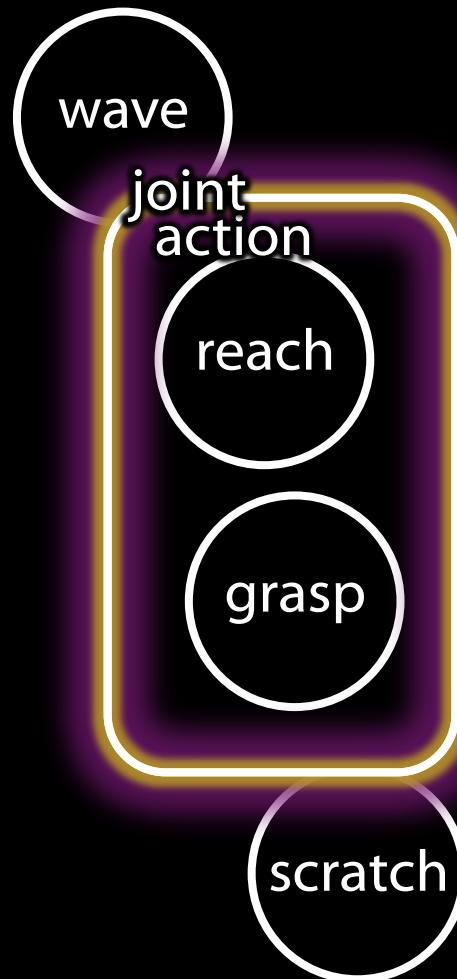


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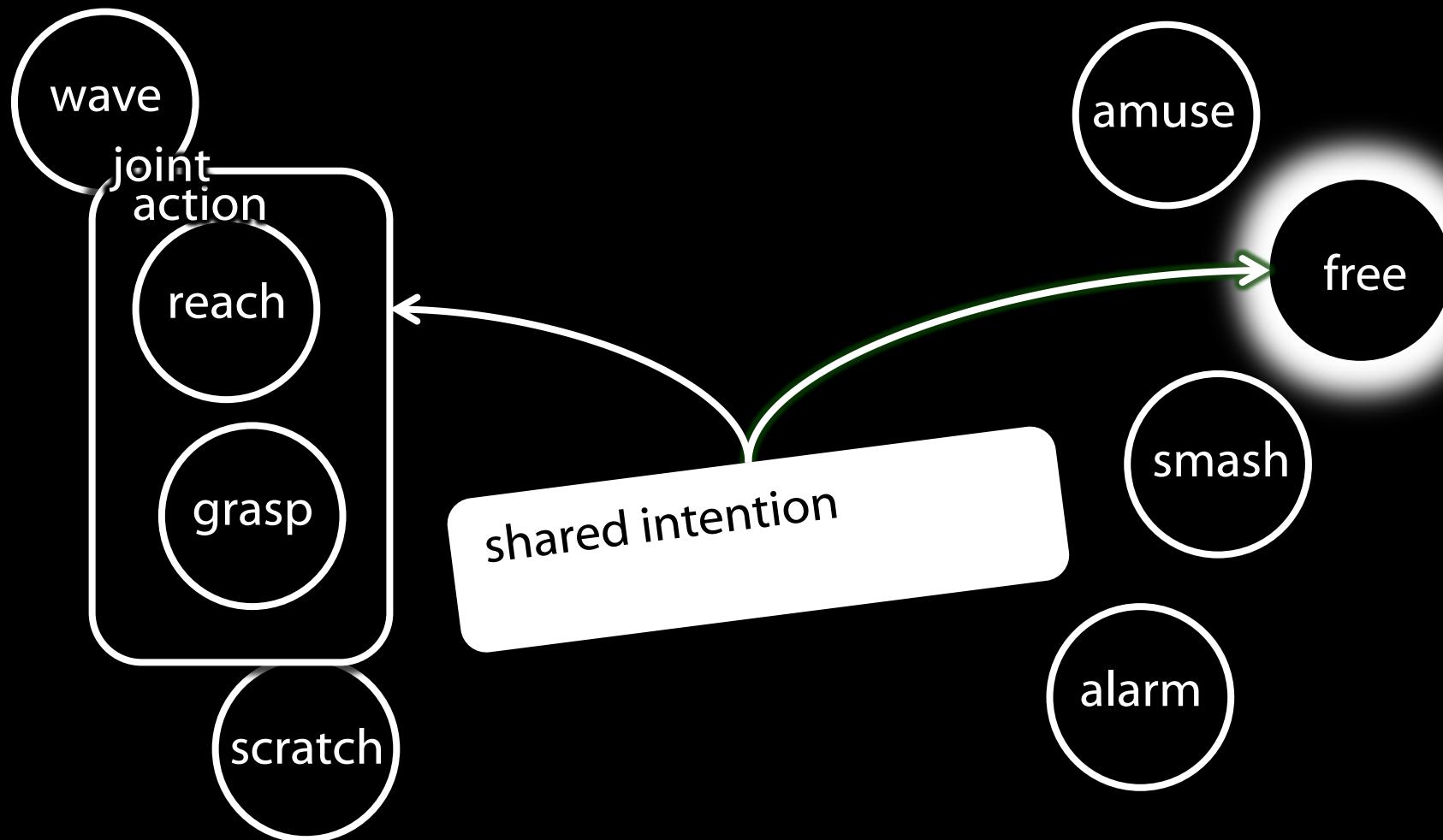
joint
action



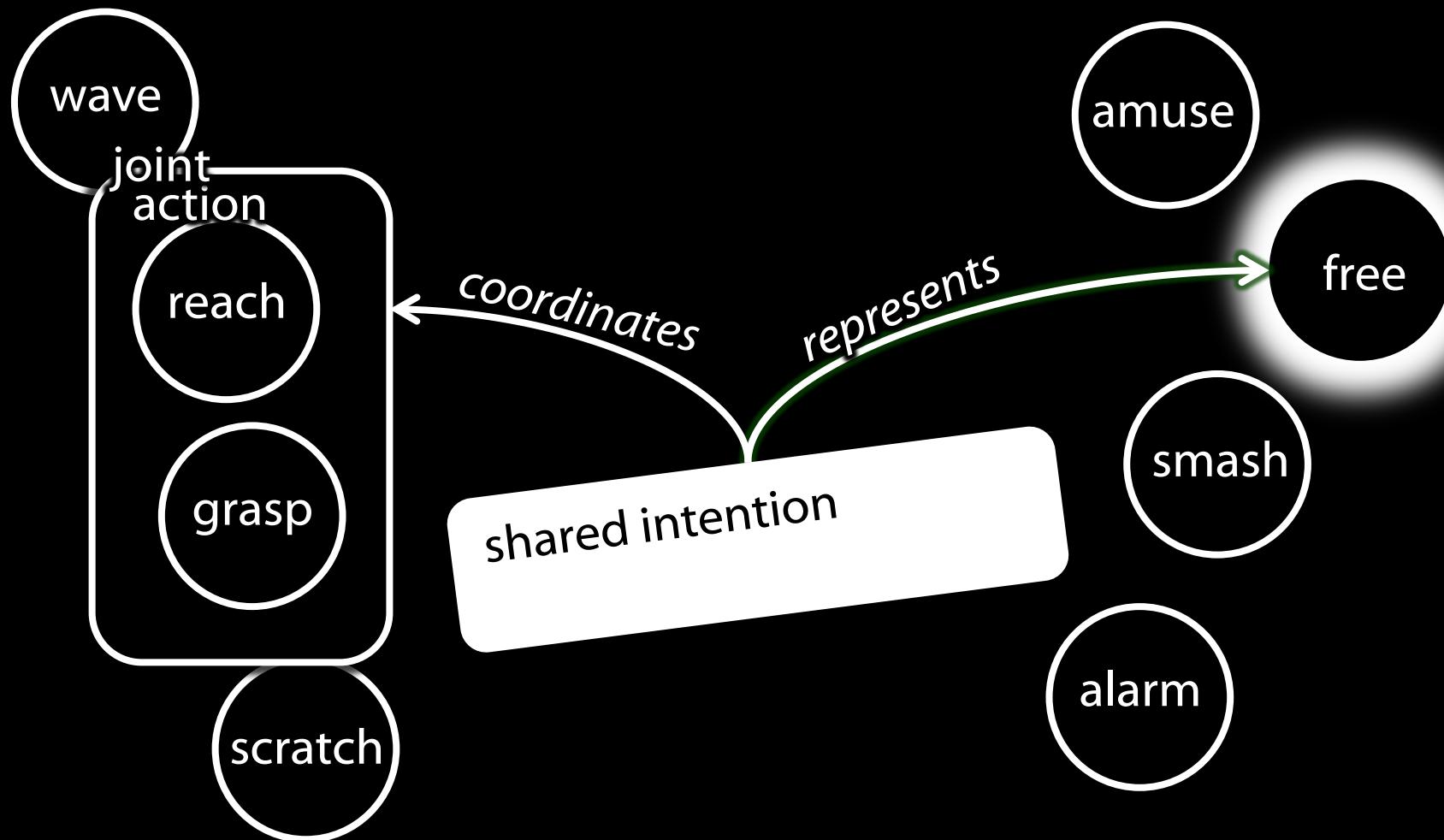
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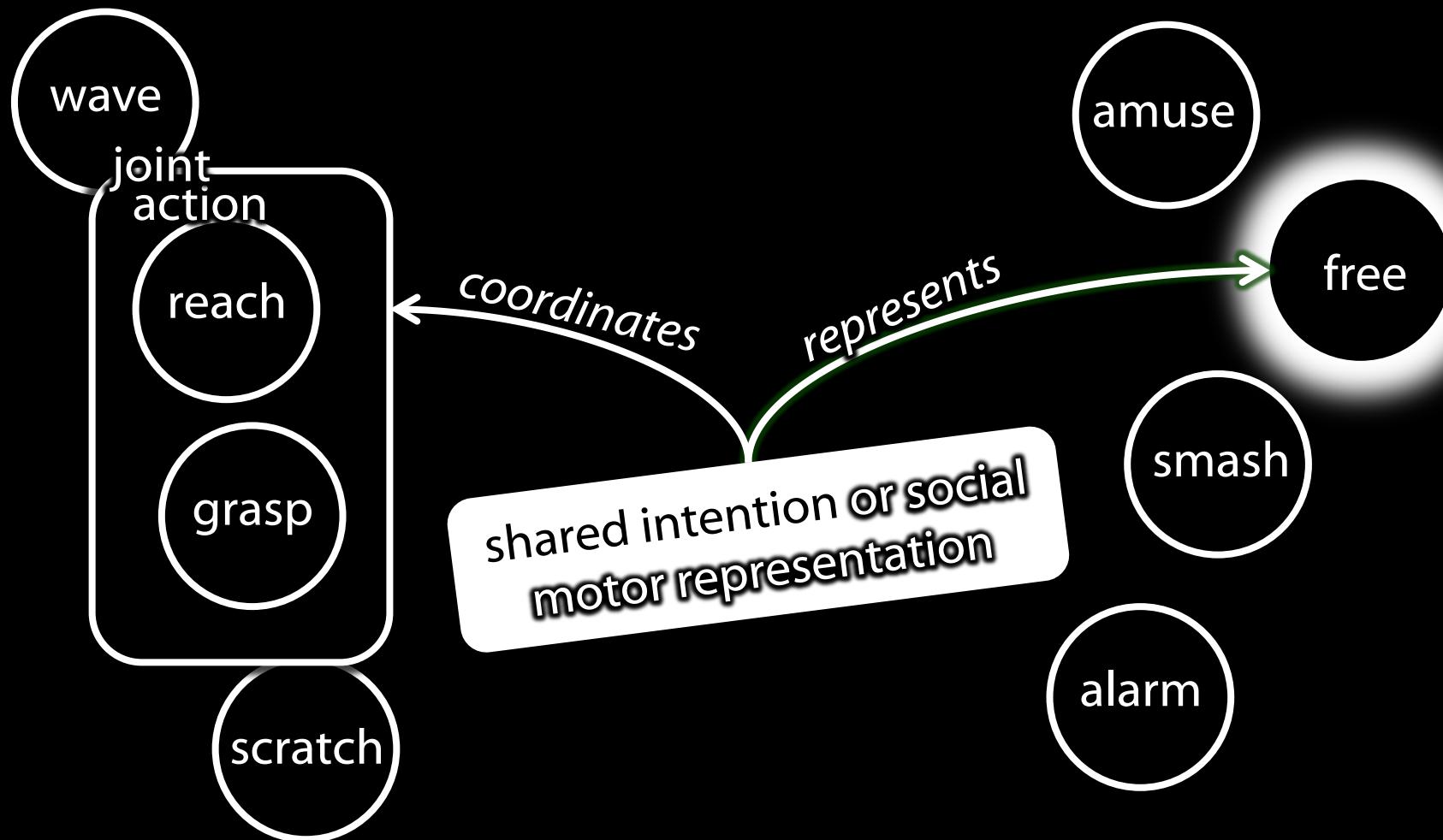
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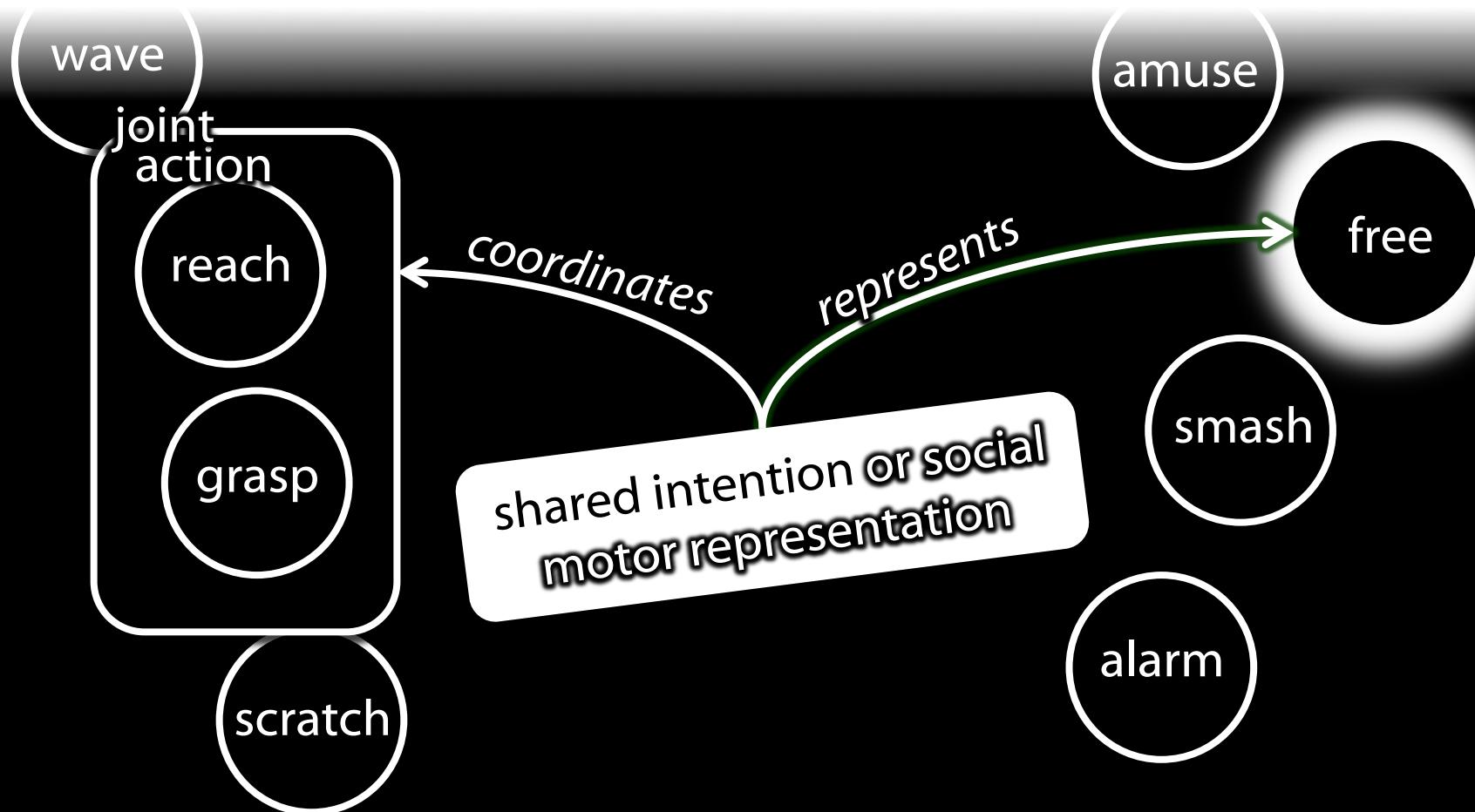


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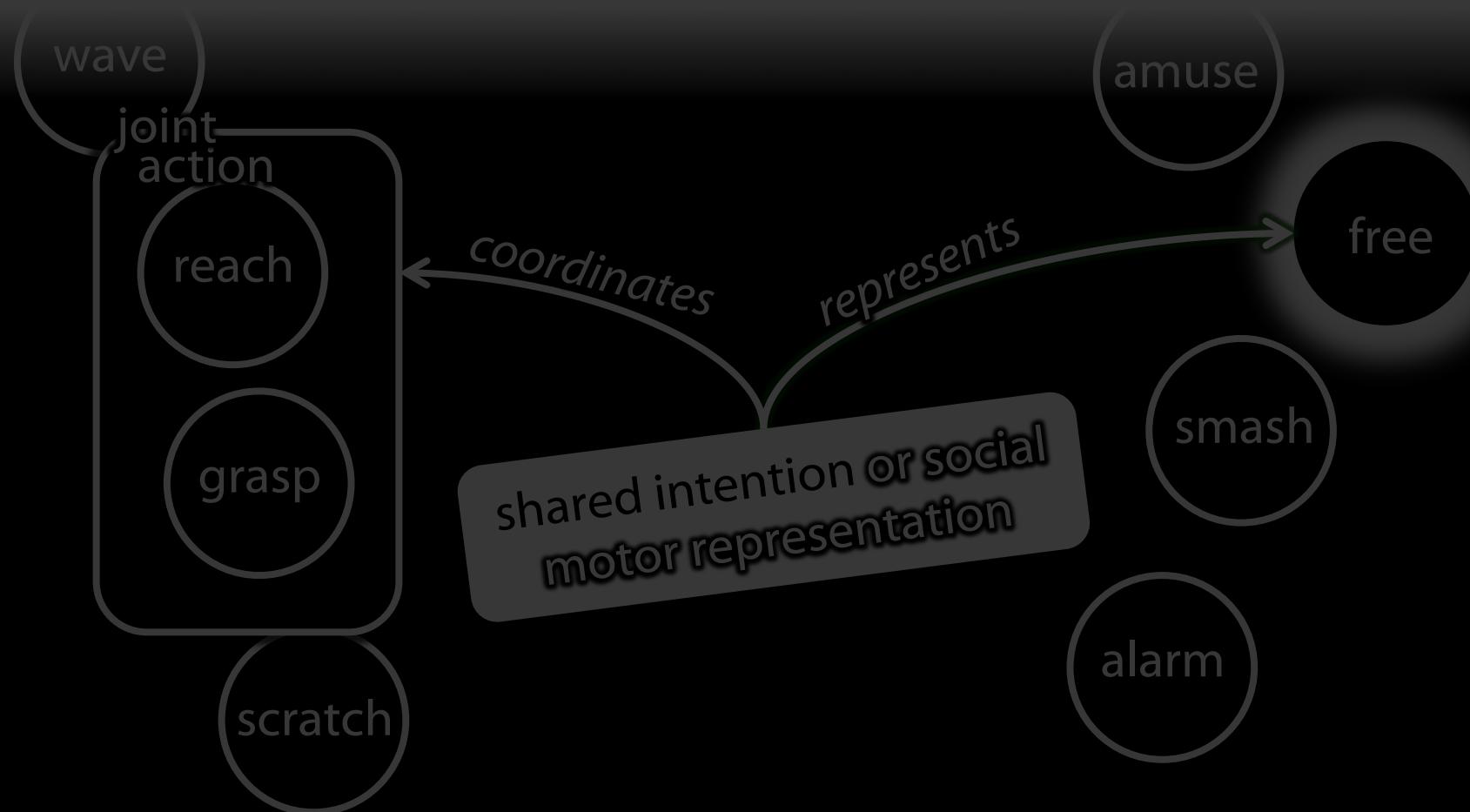
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(Alonso 2009, pp. 444-5)



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G is a distributive goal: it is an outcome to which each agent's actions are individually directed and it is possible that all actions succeed relative to this outcome.

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Parallel but Individual Agency

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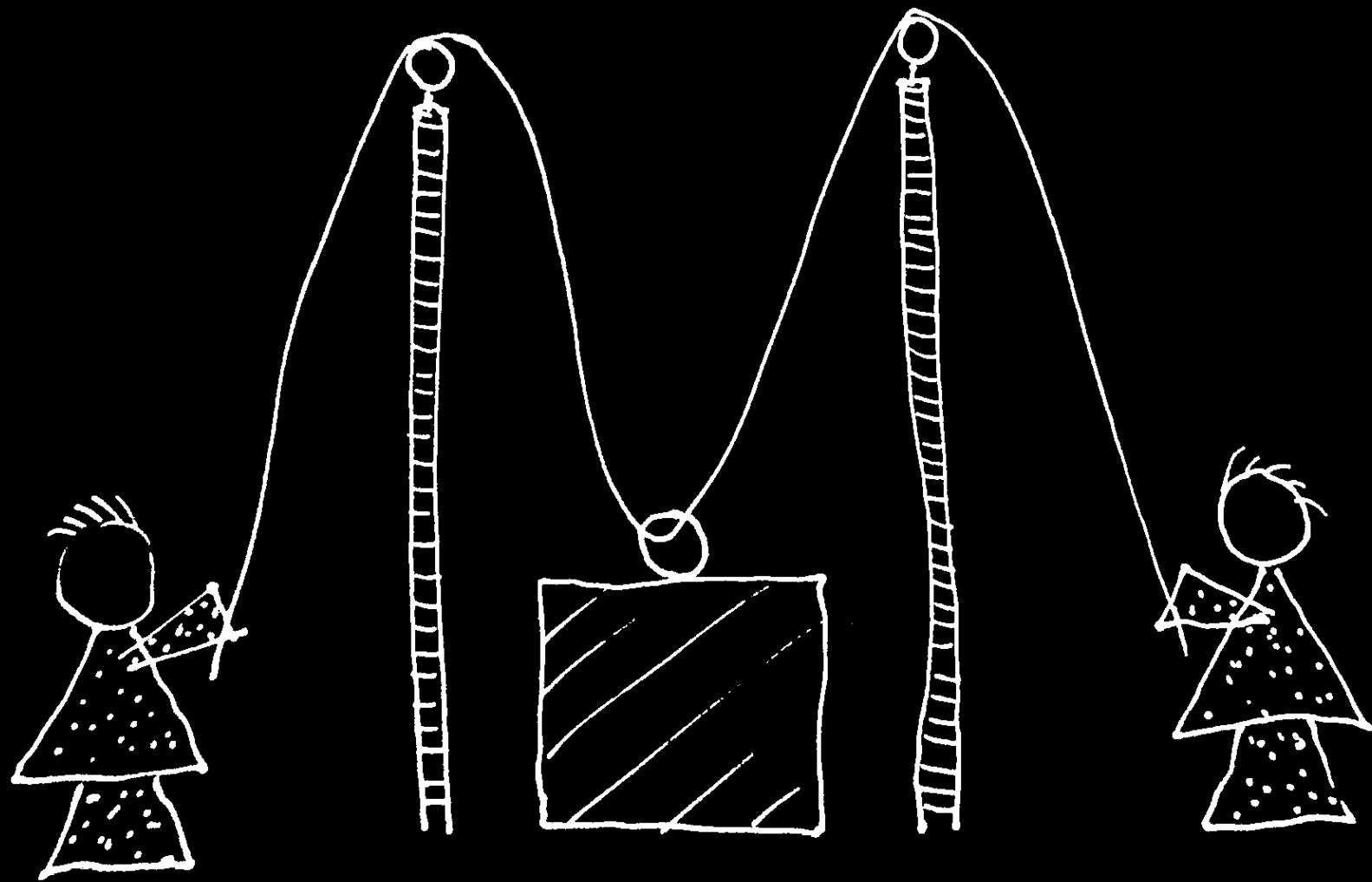
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- (a) it is a distributive goal;
- (b) the actions are coordinated; and
- (c) coordination of this type would normally facilitate occurrences of outcomes of this type.

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agent-neutral

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planning

for outcomes whose realisation would normally involve
action on the part of each agent,

reciprocal, parallel
agent-neutral

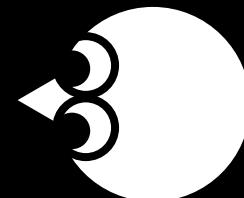
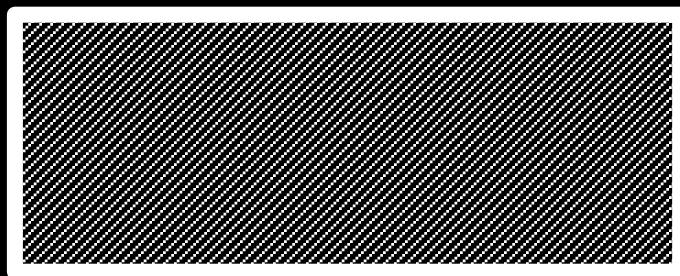
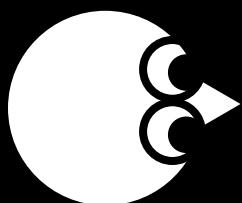
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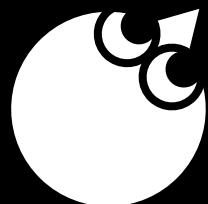
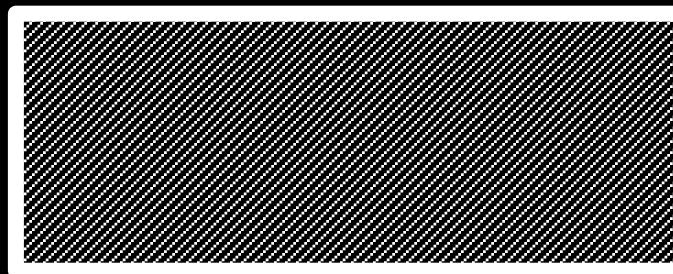
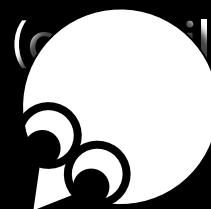
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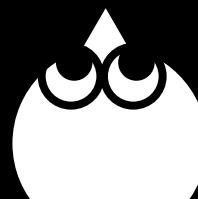
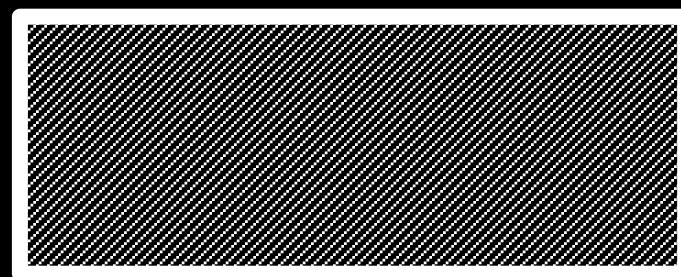
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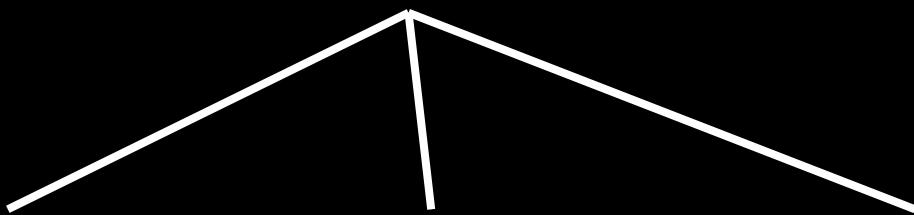
agent-neutral

motor

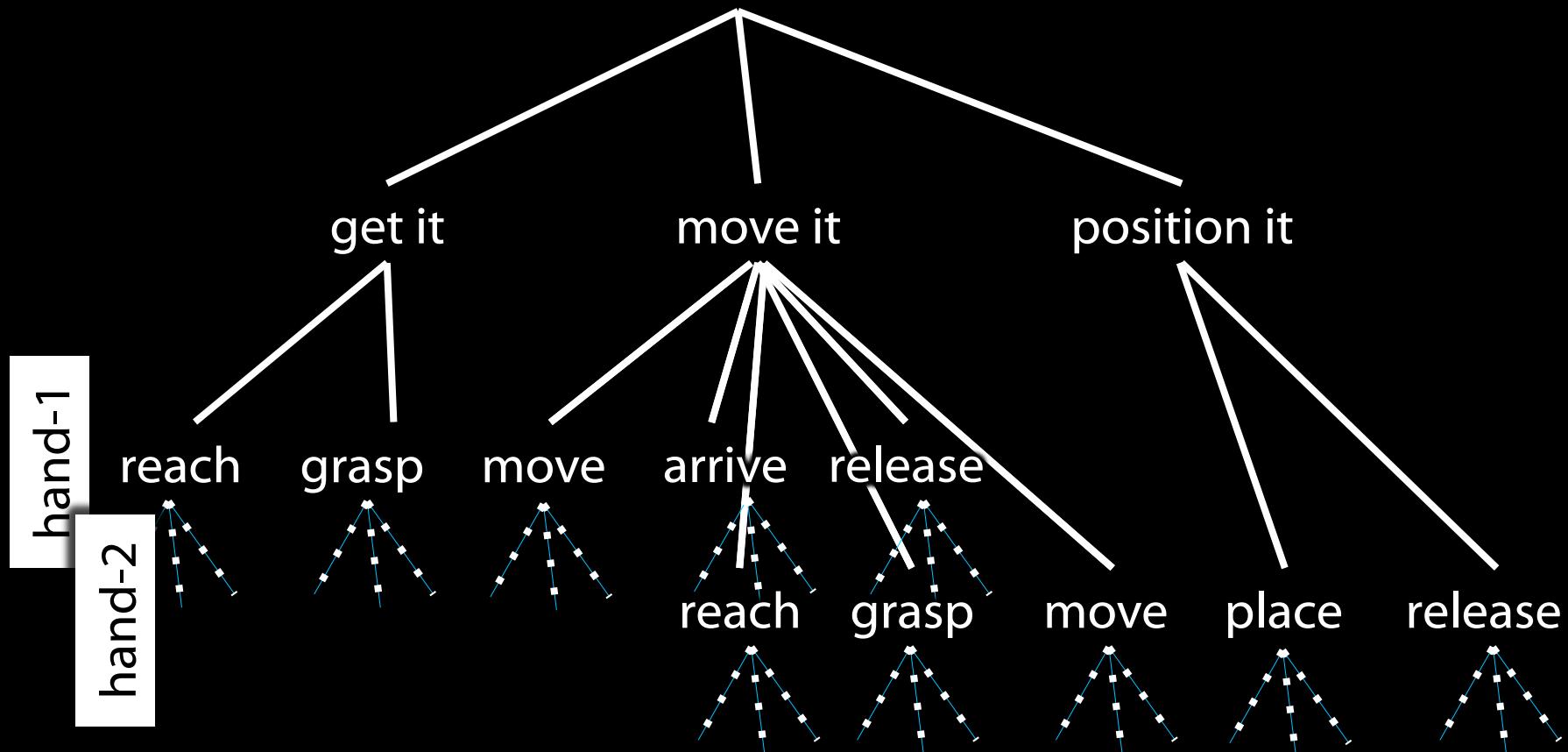
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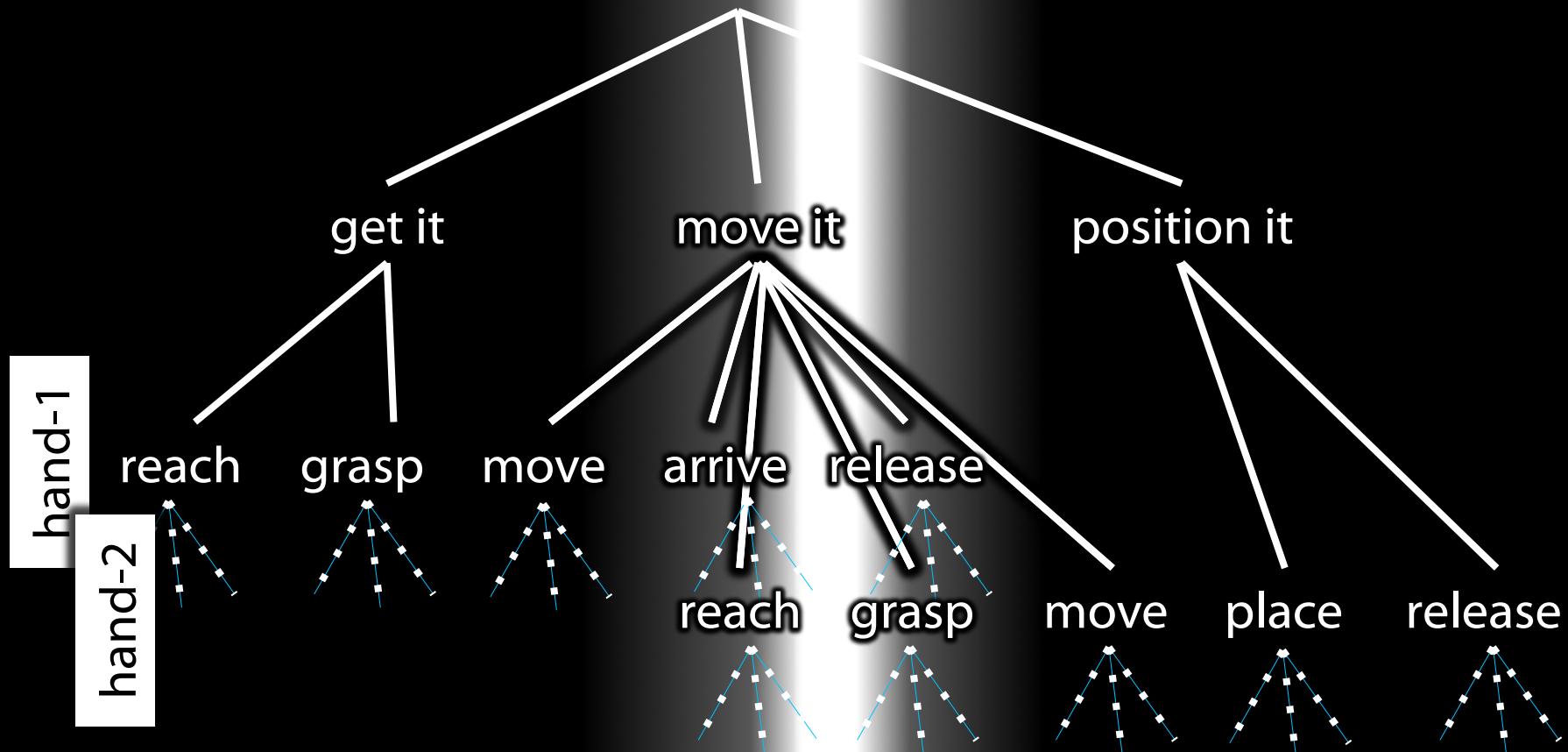
Move it from there to here



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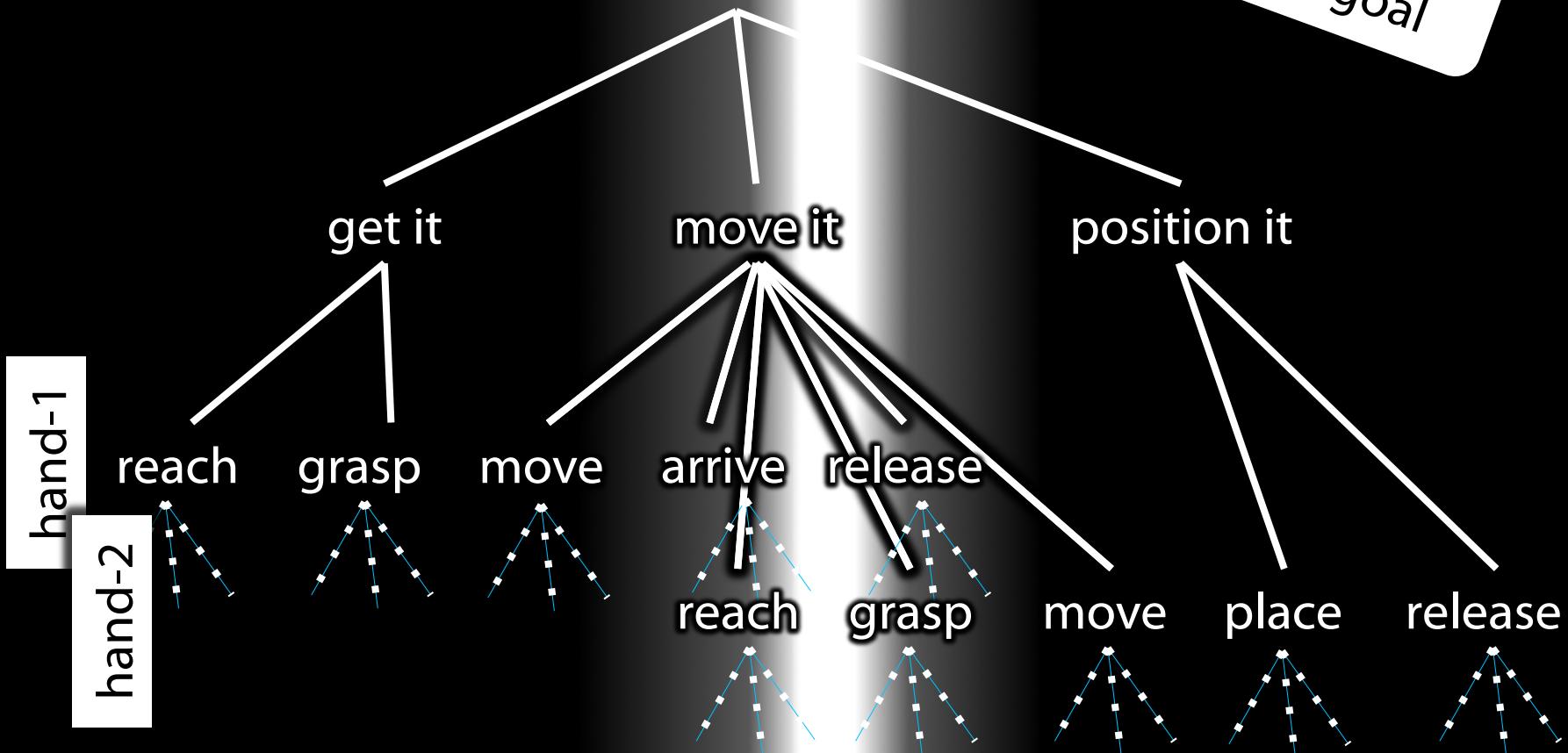


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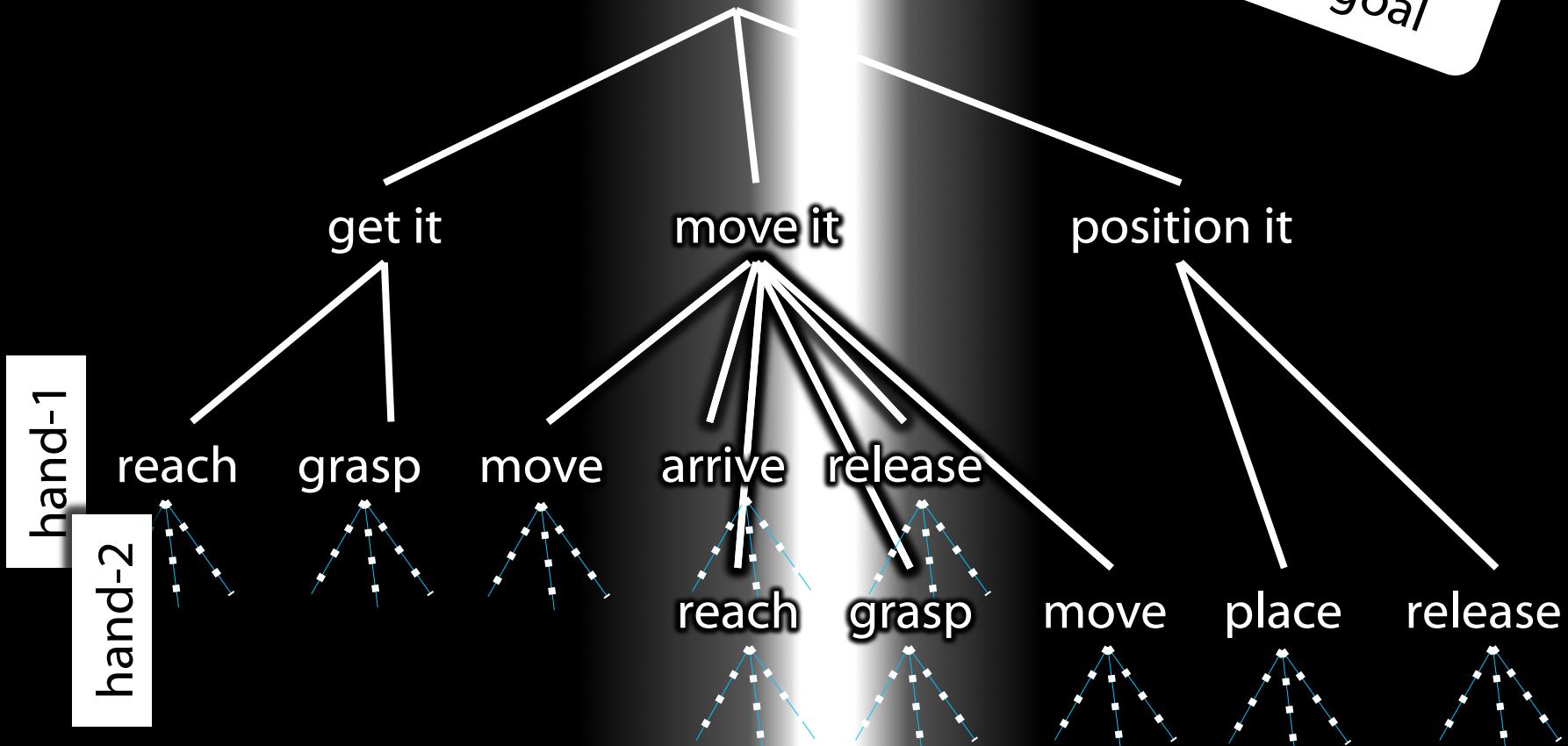
*joint action:
same goal*

Move it from there to here



Move it from there to here

joint action:
same goal



similar timing
problem

Move it from there to here

joint action:
same goal

get it

move it

position it

hand-1

reach

grasp

move

arrive

release

hand-2

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shared motor representation of G

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- (a) it is a distributive goal;
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- 1. we each have an agent-neutral motor representation of G; and
- 2. these representations would normally result in plans whose realization would normally involve action on the part of each of us.

shared motor representation of G
****FIX WHAT THIS IS****

***Shared Intention & Shared Motor
Representation play complementary roles:

cooking dinner vs. moving from here to here
riding to school together vs. arriving at a certain
point



< different content >

< different format >



Head southeast on Rue Cujas toward Rue Victor Cousin. Turn right onto Rue Saint-Jacques....

Take RER B and get out at the Luxembourg station, from there it's less than 5 minutes walk.



< different content >

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The Interface Problem

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Some joint actions involve
both shared intention and
shared motor representation

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Shared motor representations:

- i. represent outcomes;
- ii. ground the purposiveness of some joint actions

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Two outcomes, A and B, *match* in a particular context just if, in that context, either the occurrence of A would normally constitute or cause, at least partially, the occurrence of B or vice versa.

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The Interface Problem: How are non-accidental matches possible?

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- i. represent outcomes;
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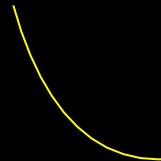
Follow that route

=



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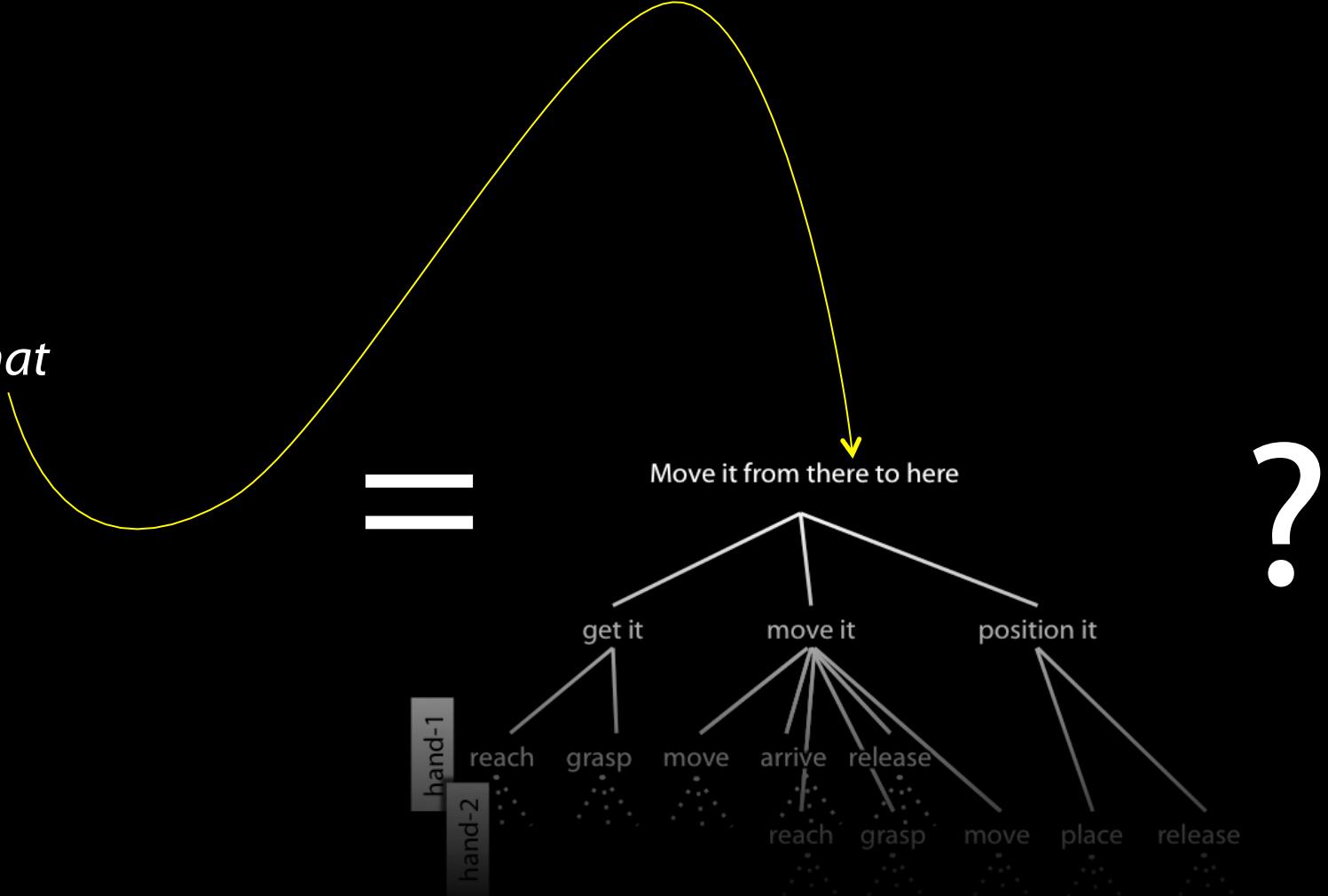


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Do that



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***ASK NATI GROOP SLIDES

***INCLUDE DIMITRIS
SLIDES

***INCLUDE JUMPING (ask
Cordula)