

Intentional coordination (e.g. planning to cook dinner)

You intend that we cook dinner.

I intend that we cook dinner.

You intend that we cook dinner by way of our intentions that we cook dinner and meshing subplans of these intentions. I also intend this.

And this is all common knowledge between us.

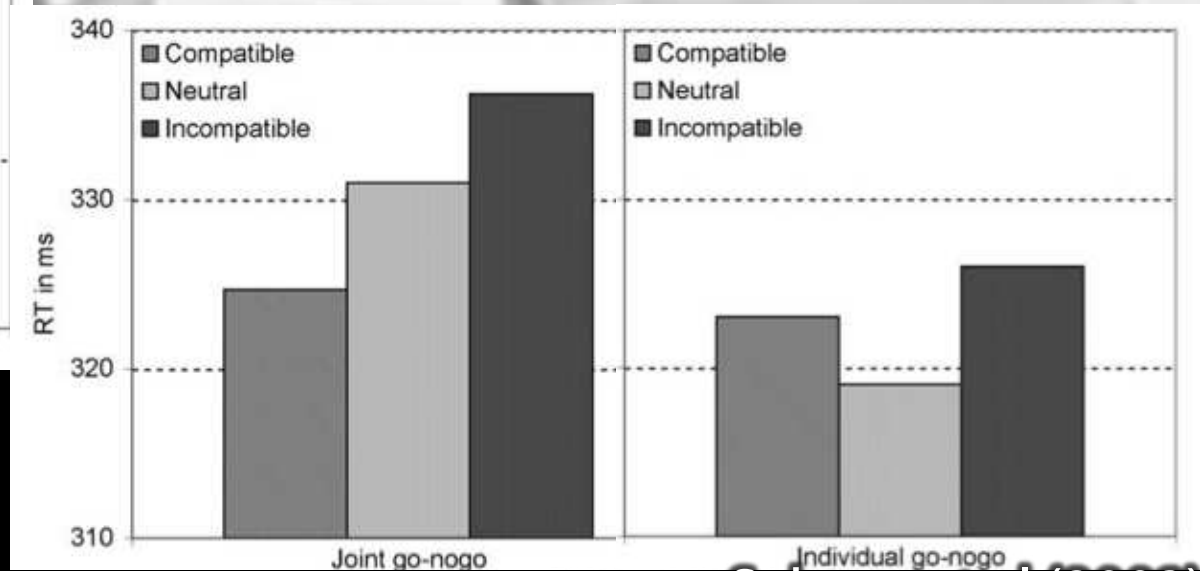
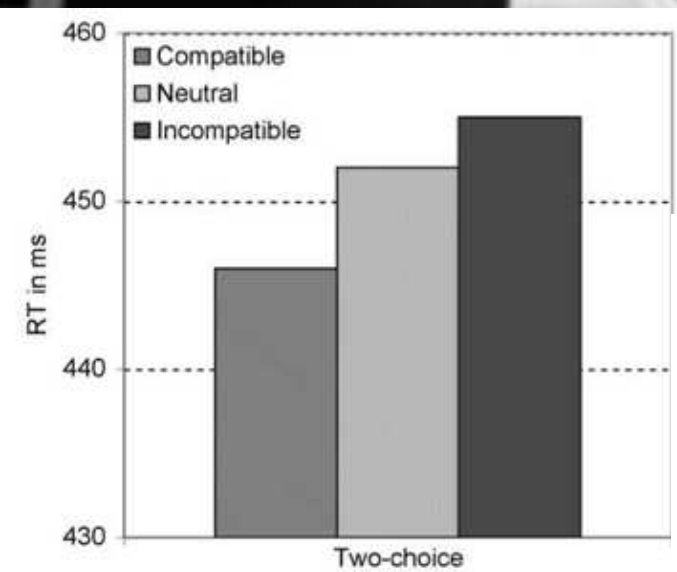
Emergent coordination (e.g. entrainment)

We happen to be sitting side-by-side in rocking chairs.

After some time our movements become entrained.

That is, our rhythmic behaviours become synchronised with respect to phase.

(a)



source: Sebanz et al (2003)

If a green ring
appears, press
the right
button

If a red ring
appears, press
the left button

*task
representations*

role of Agent2

If a green ring
appears, press
the right
button

role of Agent1

If a red ring
appears, press
the left button

*task
representations*

role of Agent2

If a green ring
appears, press
the right
button



action
plan

role of Agent1

If a red ring
appears, press
the left button



action
plan

*task
representations*

*action
initiation*

role of Agent2

If a green ring
appears, press
the right
button



action
plan

role of Agent1

If a red ring
appears, press
the left button



action
plan



left
button
press

*task
representations*

*action
initiation*

action

role of Agent2

If a green ring
appears, press
the right
button



action
plan



[no
action]



my task is to
press the
right button

role of Agent1

If a red ring
appears, press
the left button



action
plan



left
button
press

*task
representations*

*action
initiation*

*inhibition by
knowledge*

action

role of Agent2

If a green ring
appears, press
the right
button

this is not
my task



[no
action
plan]



[no
action]



role of Agent1

If a red ring
appears, press
the left button



action
plan



left
button
press

*task
representations*

*action
initiation*

*inhibition by
knowledge*

action

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*****BIN Expectation**

Task: When a letter appears on the screen,
press the Left Key if it is an A and the
Right Key if it is a B.

Suppose subjects have been performing
the task and seen this sequence:

A B B A B A B A B B A B A A A A A A A A

Question: what do subjects expect next?

As measured by response time: an A

As measured by verbal prediction: a B

*****MUCH MORE COMPLEX THAN THIS!!!**