**Supplementary Material**

**Supplementary Information 1**

Classify this cartoon according to the following options:

**No interaction**

There is no obvious interaction between the triangles. The movement appears to be random.

**Physical interaction**

The interaction between the triangles is directed toward each other to achieve specific goals.

**Mental interaction**

The interaction between the triangles involves the manipulation or changing of the emotions and thoughts of one triangle by the other.

**Supplementary Information 2**

Representative examples of narratives provided during the viewing of the theory of mind “Coaxing” animation, for 1) Control, 2) Alzheimer’s disease, and 3) behavioral variant frontotemporal dementia participants.

***1) Control***

 “The big one is trying to entice the little one to come out of the square. The little one is very reluctant, he is being pushed out just like the mummy bird pushing the little birds out of the nest. He is saying “stay out” and they join each other again. It’s a mental interaction.”

***2) Alzheimer’s disease***

 “Well they’re actually interacting. Different shapes. Well they’re interacting with each other. Yeah, I think the blue one is trying to encourage the red one, or the pink one out of the box, and now they’ve joined up.”

***3) Behavioral variant FTD***

 “Oh that’s physical. Let me just have a look. That is physical, the one before it is mental. The red one goes up to him and pushes the blue one around. The red one is pushing the blue one around.”