Brain Transplants and Personal Identity





What is it to be a **person**?



What is it for a person at one time (t_1) to be **identical** to some person at a later time (t_2) ?

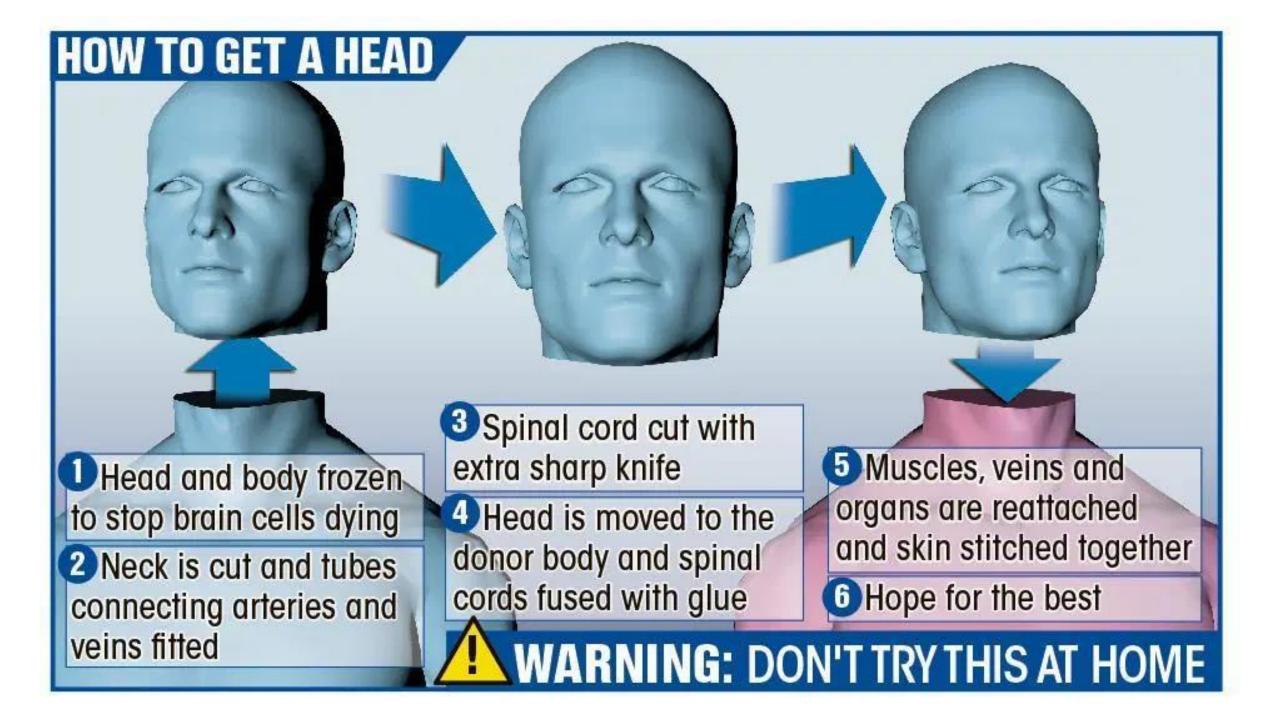


Case 1:
Body
transplant

Sergio Canavero (2017)

Attempt of head transplant on a patient suffering spinal muscular atrophy





Some other (successful) cases



Vladimir Demikhov (1950s): Two-headed dogs (puppy head into adult dog). Survived between 2-29 days.

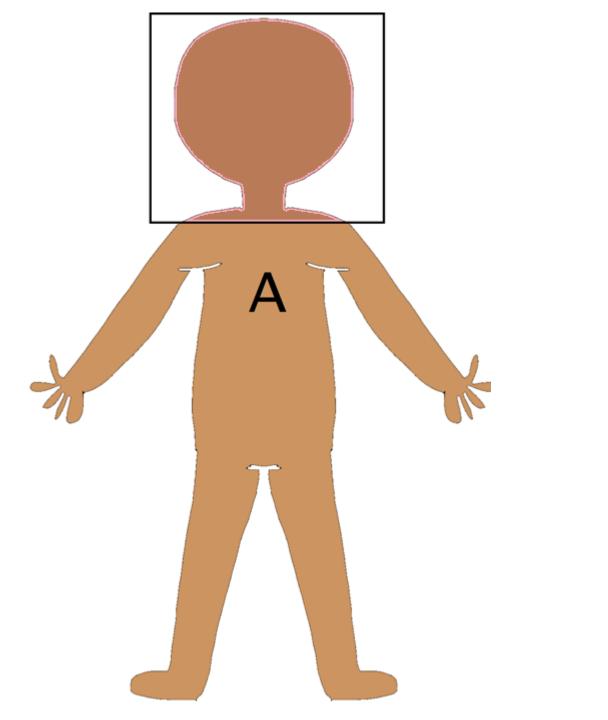
The new head biting the ear of the other.

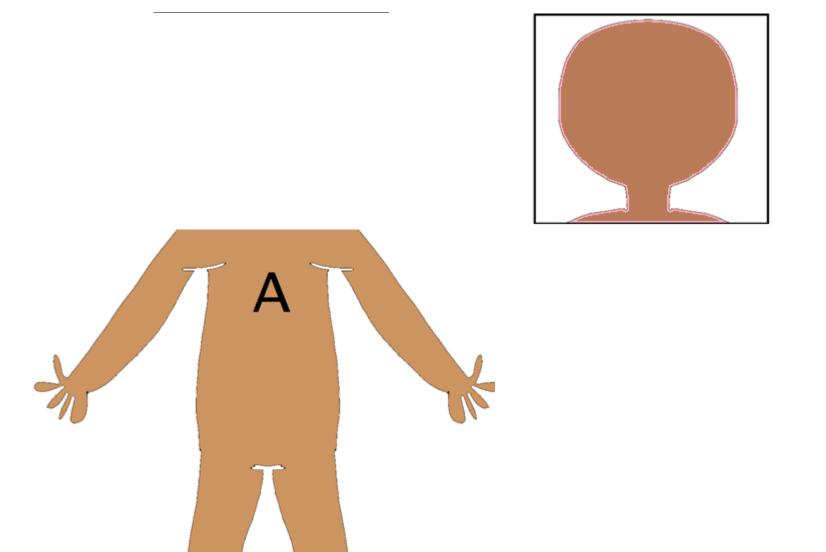


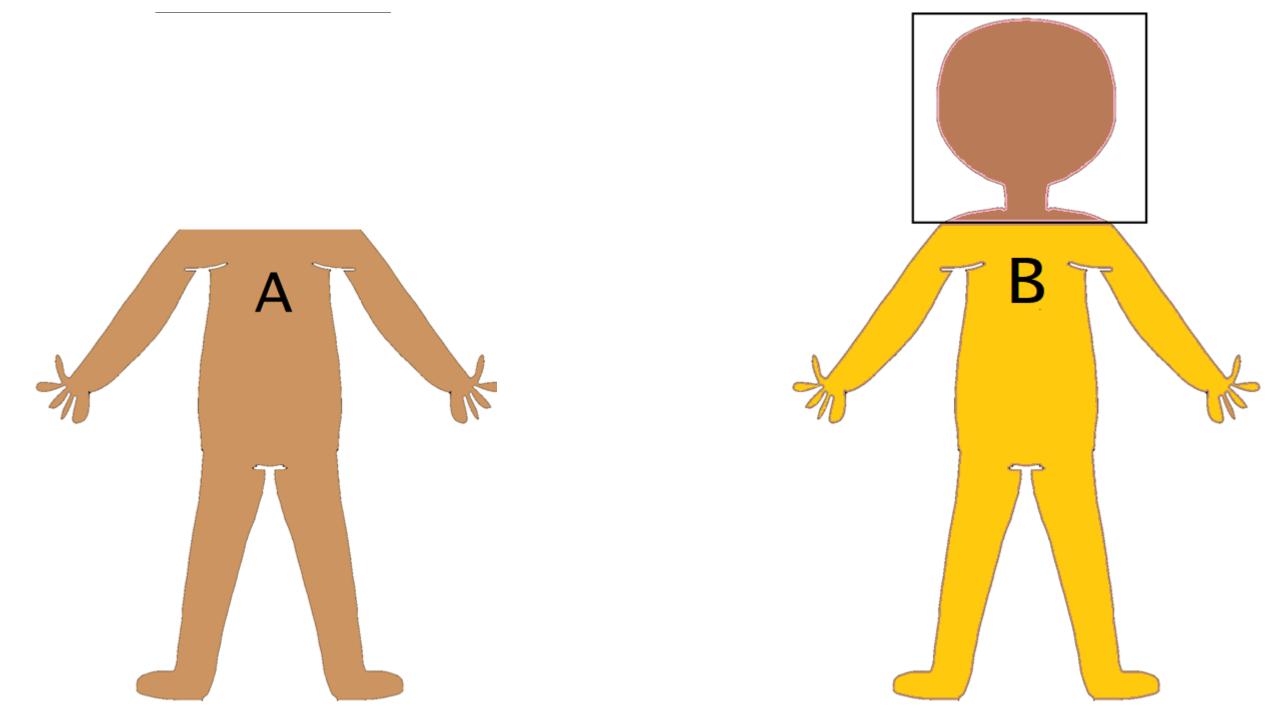
Dr Robert White (1970). Monkey head transplant. It was paralysed from the neck down but was able to hear, smell, taste and move its eyes. Survived 9 days.



Xiao-Ping Ren et al. (2014). Mice head-swap. 3h alive.





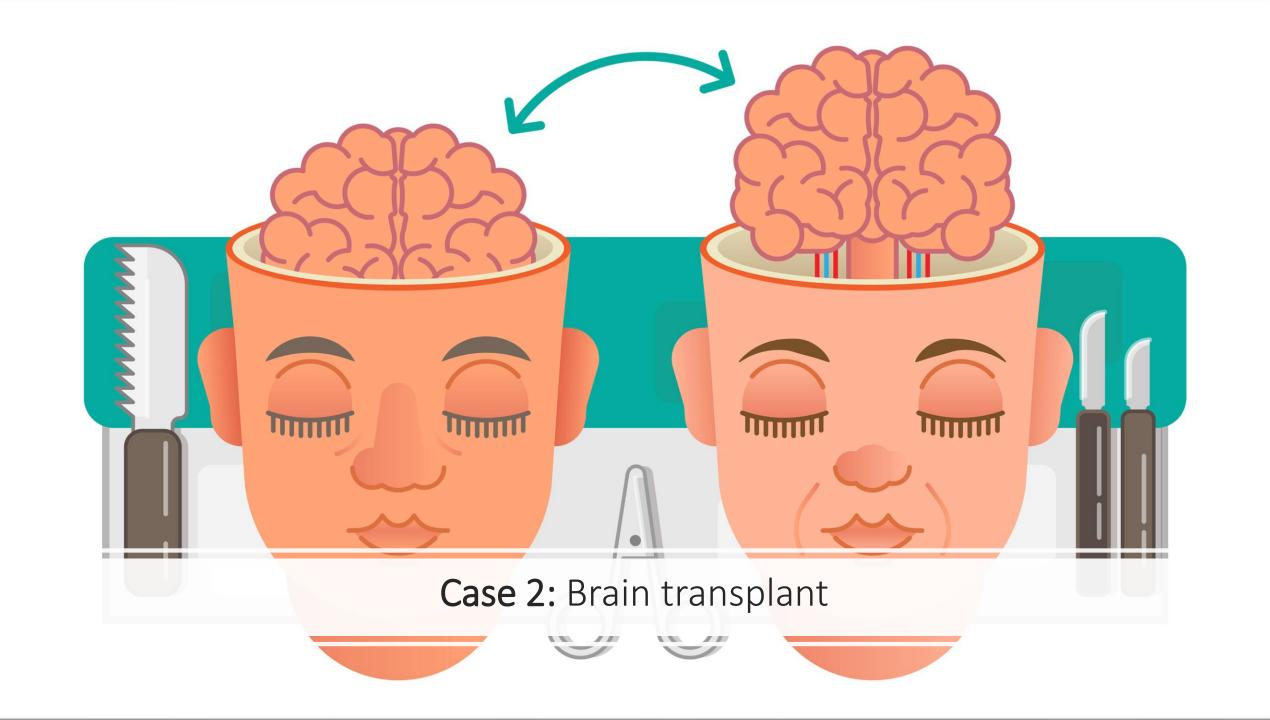




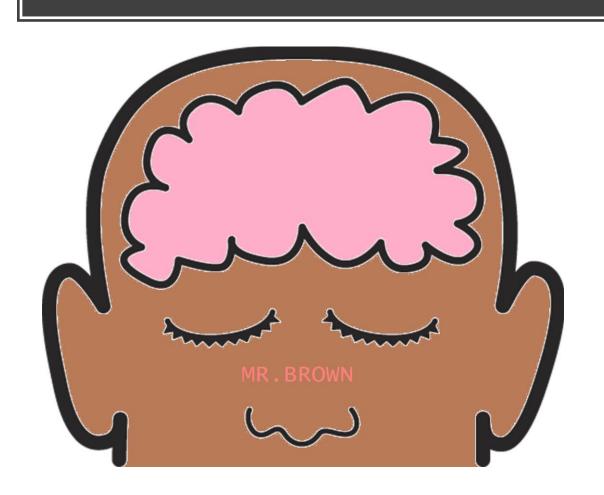
Let's consider that Canavero's surgery is performed successfully

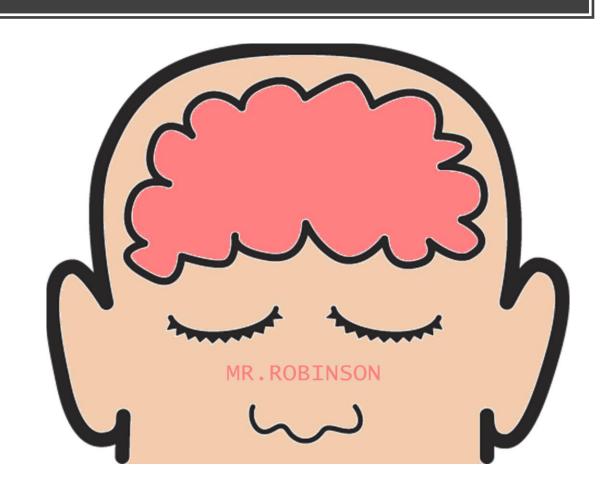


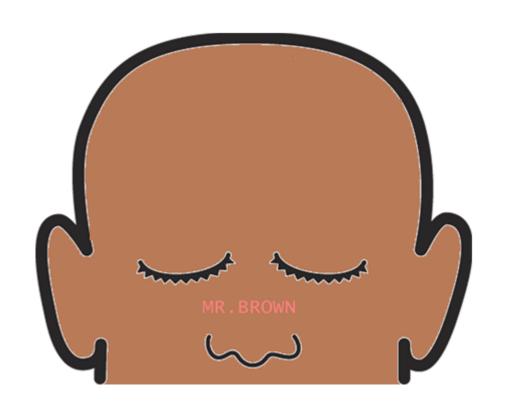
Would we say that the person that wakes up after the body transplant is the same person?

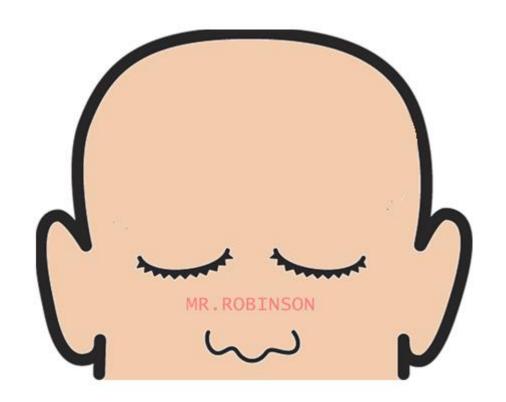


Shoemaker's (1963) thought experiment



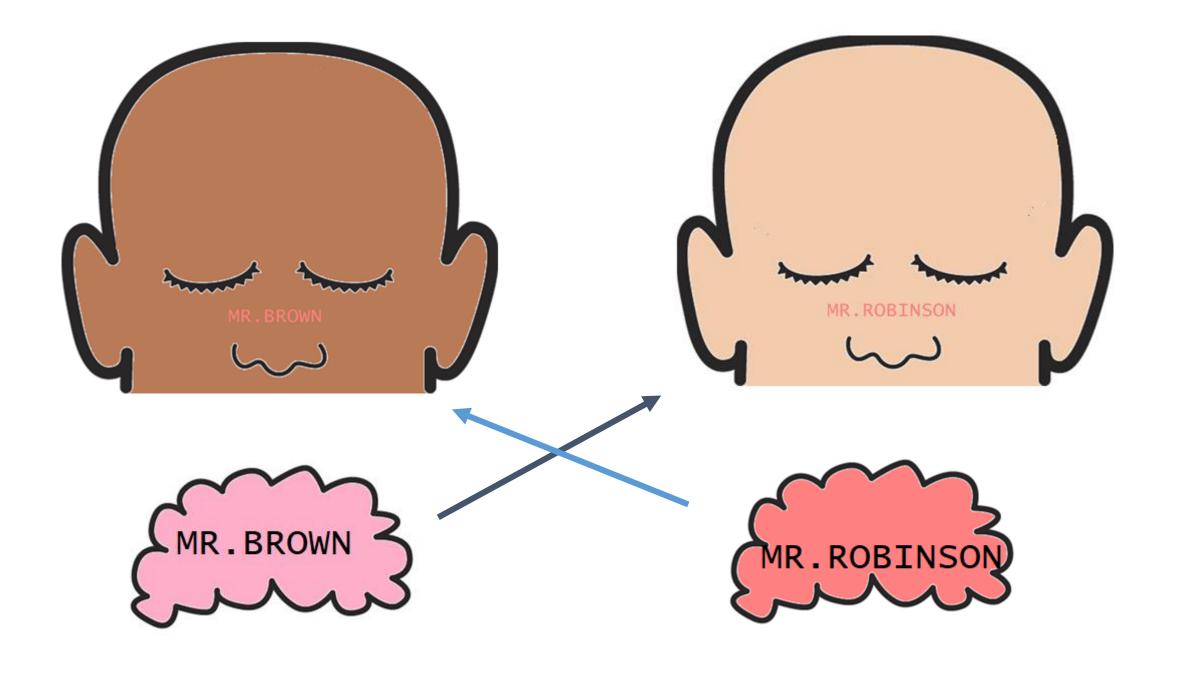


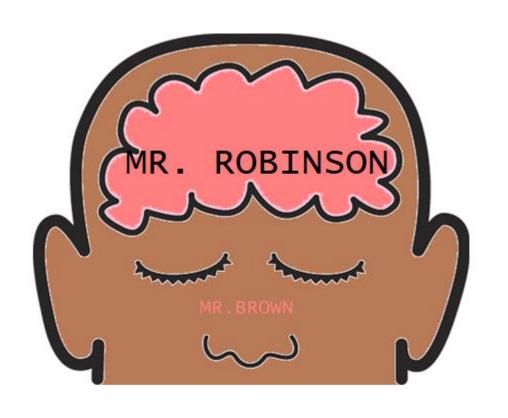


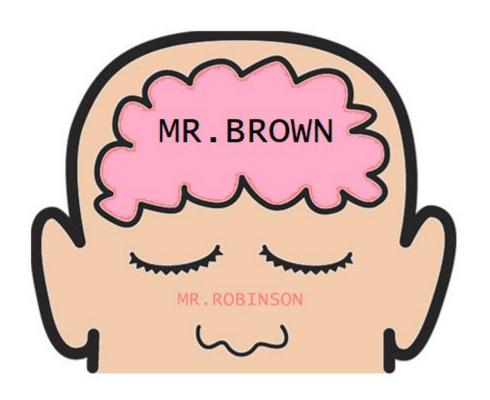




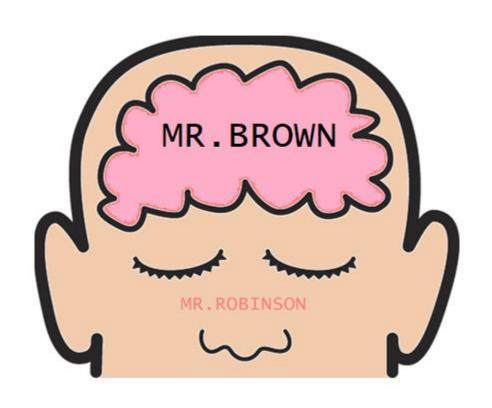




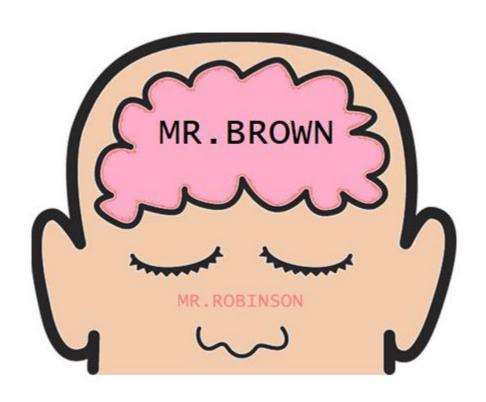




MR.BROWNSON



MR. BROWNSON



- "What's your name?
- Brown"

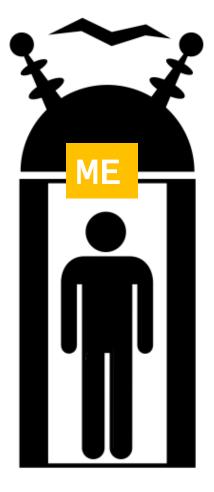
Case 3:
Teleportation and body annihilation



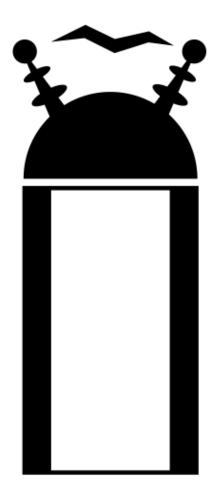
Parfit's (1984) teleportation machine thought experiment

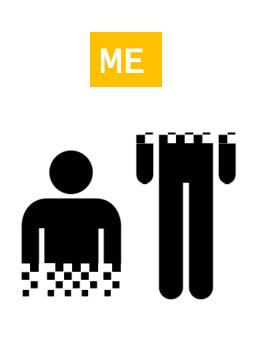




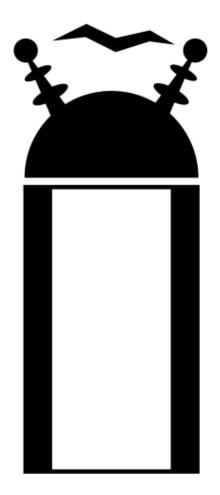




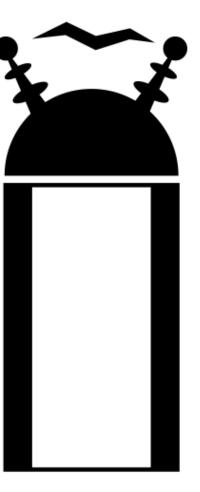




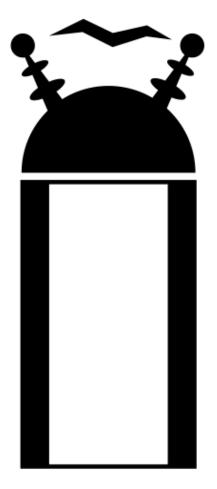




















Can we say that *I* have survived the teleportation machine?

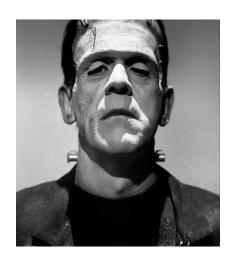


Is it me who awakes on Mars?



Is the replica me?

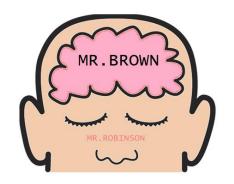




CASE 1 – CANAVERO'S SURGERY

SAME HEAD, DIFFERENT BODY

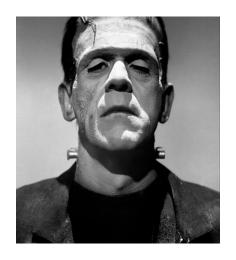




CASE 1 –
CANAVERO'S
SURGERY
SAME HEAD,

DIFFERENT BODY

CASE 2 – SHOEMAKER'S BRAIN TRANSPLANT SAME BRAIN, DIFFERENT HEAD AND BODY







CASE 1 – CANAVERO'S SURGERY

SAME HEAD, DIFFERENT BODY CASE 2 – SHOEMAKER'S BRAIN TRANSPLANT

SAME BRAIN, DIFFERENT HEAD AND BODY CASE 3 – PARFIT'S TELEPORTATION

ALL, INCLUDING BRAIN AND BODY, ARE REPLICATED





So what makes me ME?



My head, my brain, my body?

Personal Identity

Physical criteria:

person A at time t₁ is identical to person B at t₂ if and only if A and B have **the same body** or **the same brain**





I don't have the same brain (I have bionic brain instead), but I have the same mental processes (thoughts, memories, personality...)

Am I still me?



Personal Identity

Psychological criteria:

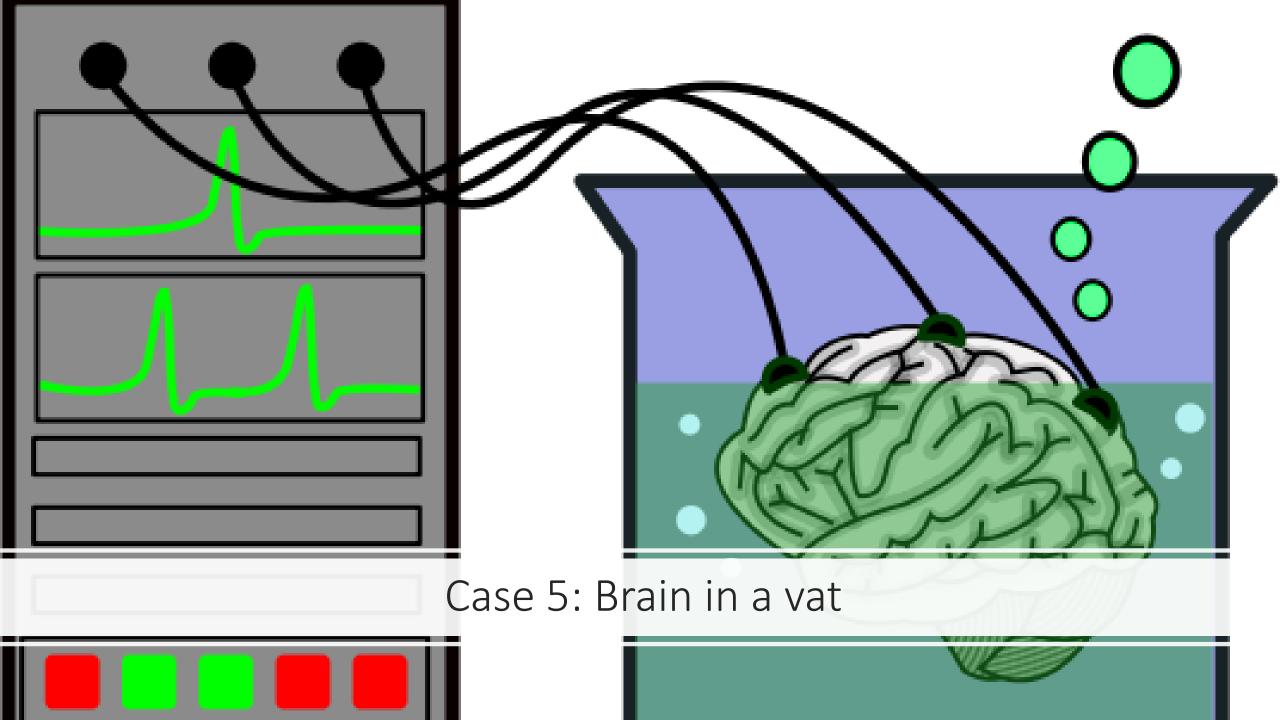
person A at time t₁ is identical to person B at t₂ if and only if A and B are **mentally continuous.**

Personal Identity

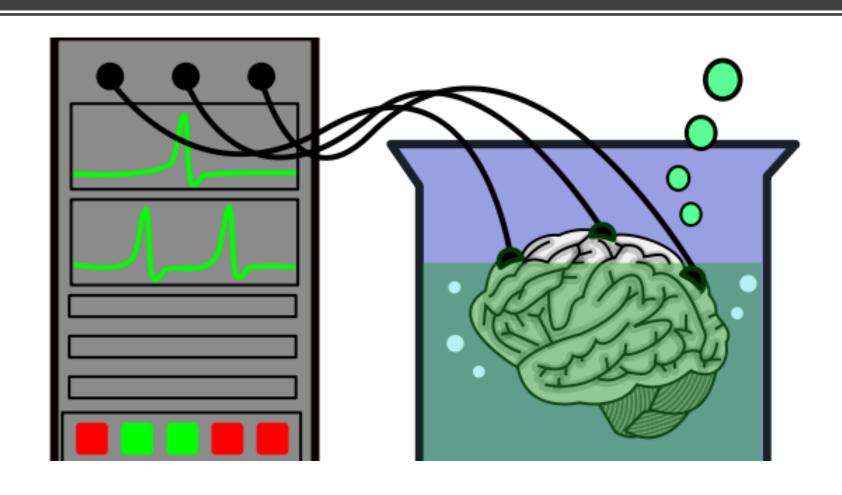
John Locke (1689)

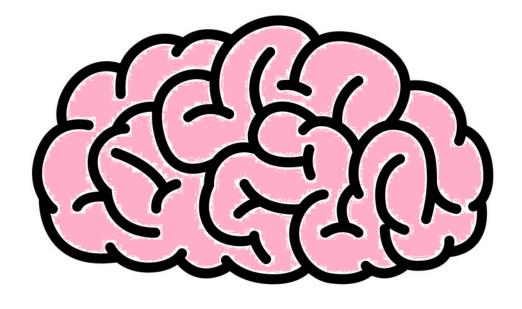
Person B at t_2 needs to be aware of having been person A at t_1 .

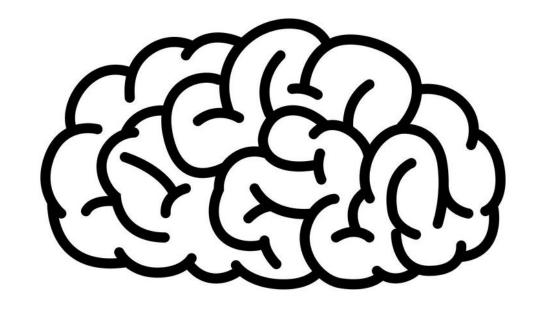
Even if I have changed my body (being this a replica of my old one or a new body where my brain has been transplanted), I haven't lost my experiences, and my mental processes are still the same



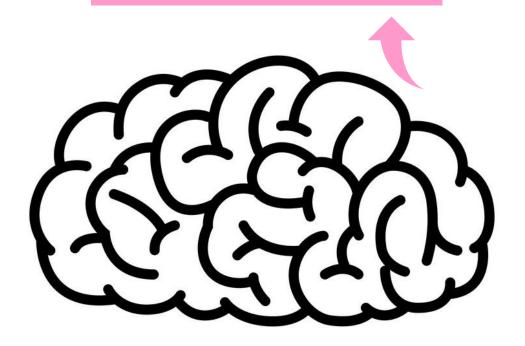
Bernard Williams (1970) brain-state transfer device

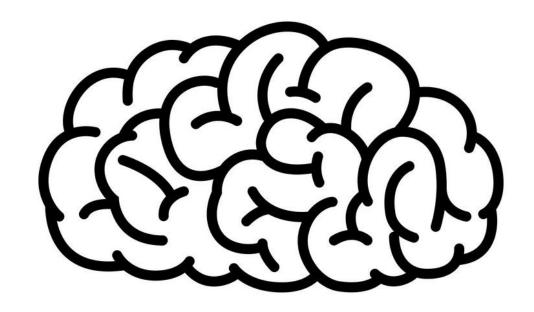




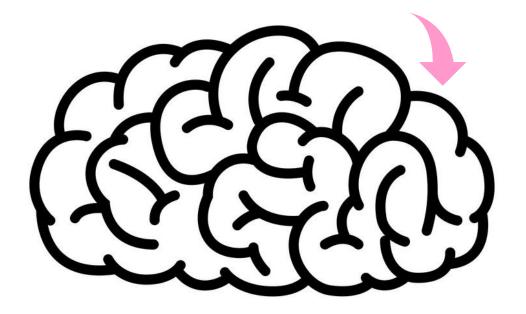


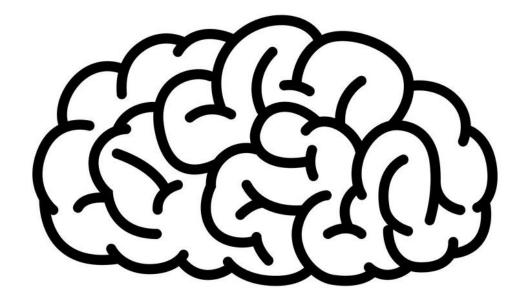
ADRIANA'S SELF

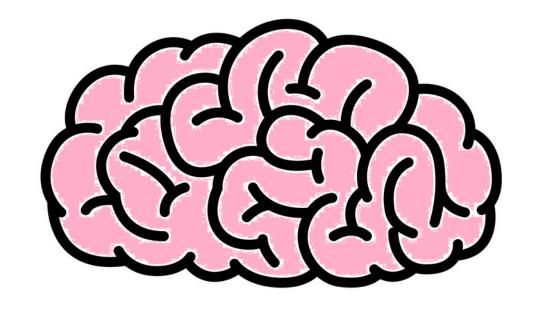




ADRIANA'S SELF









Can we say that *all the information* about me will be implanted in the new brain?



Can the receiver of the new brain become *me*?