

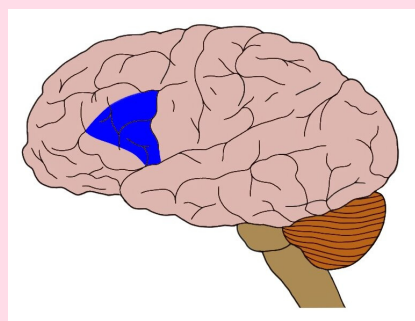
BROCA'S AREA: NOT JUST LANGUAGE



Binkofski, F., & Buccino, G. (2005). Motor functions of the Broca's region (Vol. 25). NeuroImage.

BROCA'S AREA

- Broca's area is unique to humans.
- It is located in the frontal cortex
- Primarily Involved in comprehension of language
- There are two regions to the Broca's area:
 - Area 44
 - Area 45



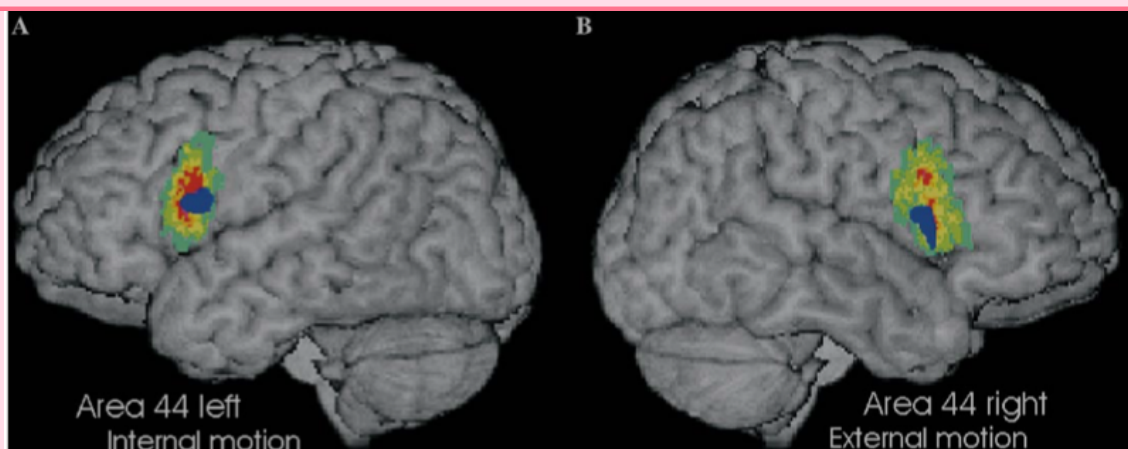
RESEARCH OBSTACLES

- Since the Broca's region is unique to humans it can be very difficult to study this region of the brain
- Area 44 in some ways mimics the premotor cortex in monkey brains.
- There is also evidence that area F5 of monkey's brain is similar to that of the Broca's area.

NOT ONLY FOR LANGUAGE

There is new evidence that shows that the Broca's area is also involved in general role for motor. Controlling the upper arm and mouth actions.

- Illustration Below:
 - Illustration A: performance of a internal motion
 - Illustration B: performance of external motion



SIGNIFICANT BECAUSE:

Area F5 in monkey's brain is responsible for hand coordination.

This goes to show that the Broca's area is responsible for more than just language. But also with hand coordination.