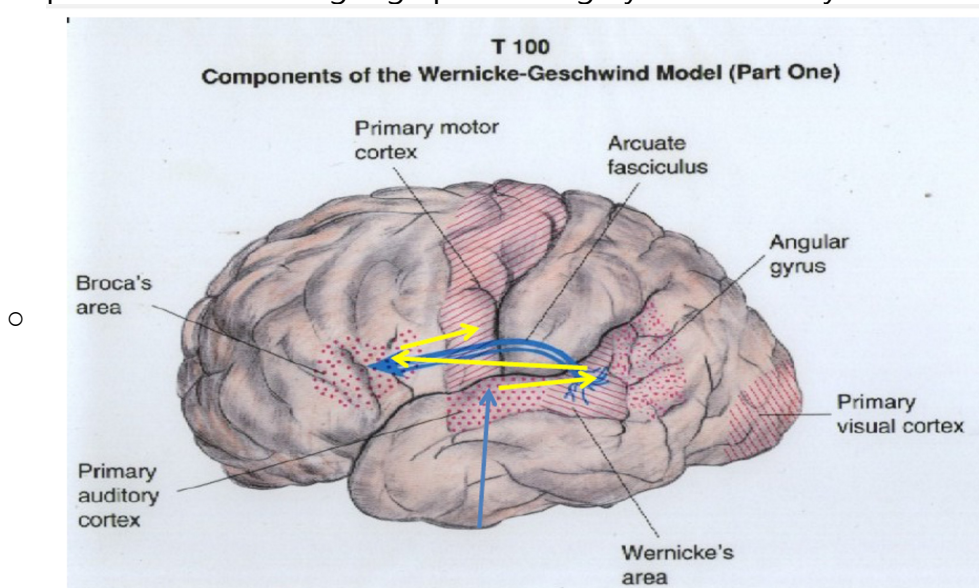
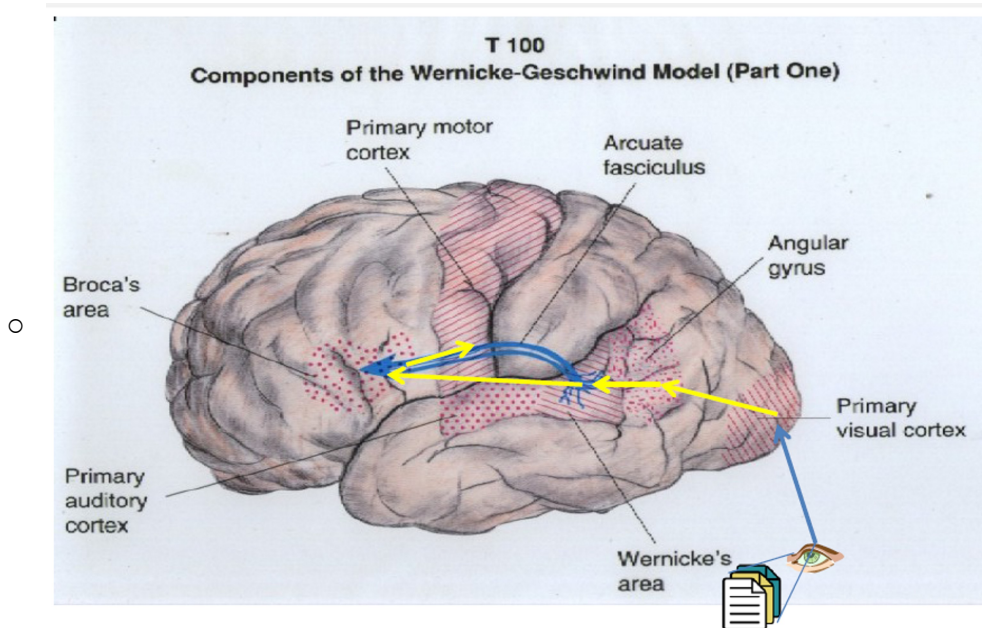
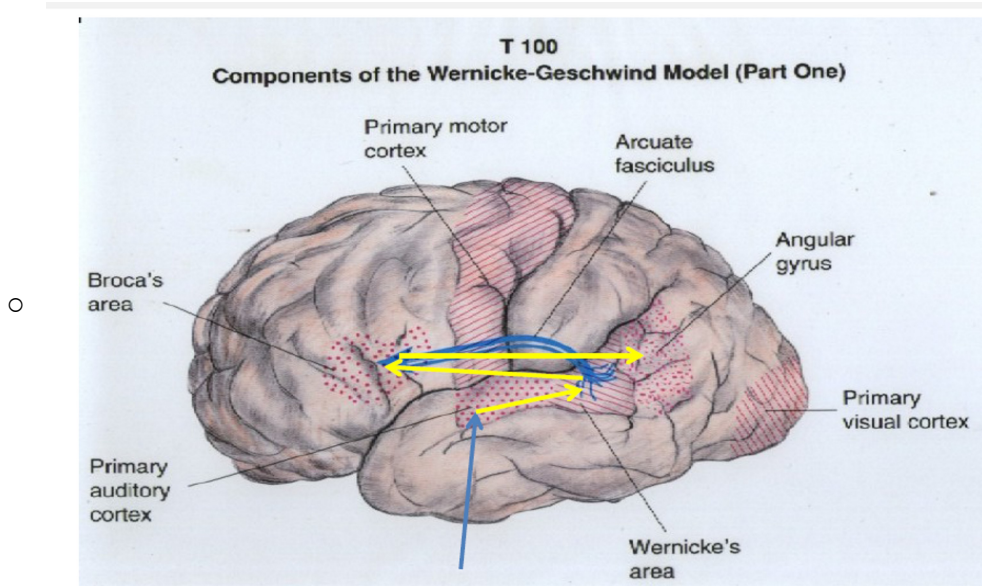


Unit 02 L42 Language Evolution

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- Language and Evolution
 - The linguistic approach says that 'language is an evolved capacity'
 - Evidence
 - Defined brain areas
 - a
 - The developmental stages of a child.
 - Environment plays an important role in language acquisition.
- Aphasias -- Broca's Aphasia
 - Aphasia is a disorder caused by damage to the parts of the brain that control language.
 - Aphasia patients who have damage to Broca's area on the lower left frontal lobe
 - Understand well but have problems producing speech.
 - Generate short, broken sentences with many pauses.
- Aphasias -- Wernicke's Aphasia
 - In Wernicke's aphasia patients have damage to Wernicke's area on the posterior portion of the left hemisphere
 - Have problems comprehending speech and therefore generates irrelevant replies.
 - Produce rapid, fluent and seemingly automatic speech with very little meaning.
- Wernicke-Geschwind Model
 - Wernicke(1960) first formulated a model of how we process language in our brain which was later expanded by Geschwind(1972).
 - The model gives an oversimplified explanation of the cognitive process behind language processing by the neural system.





- Criticism: Other brain areas are also involved in language processing such as memory.
- Symptoms aren't always consistent with problems with those brain areas.