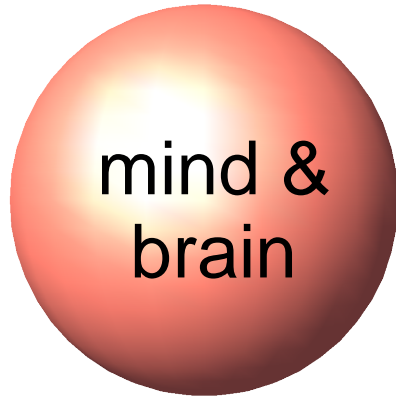


research 1



research 2



system control

hierarchical knowledge