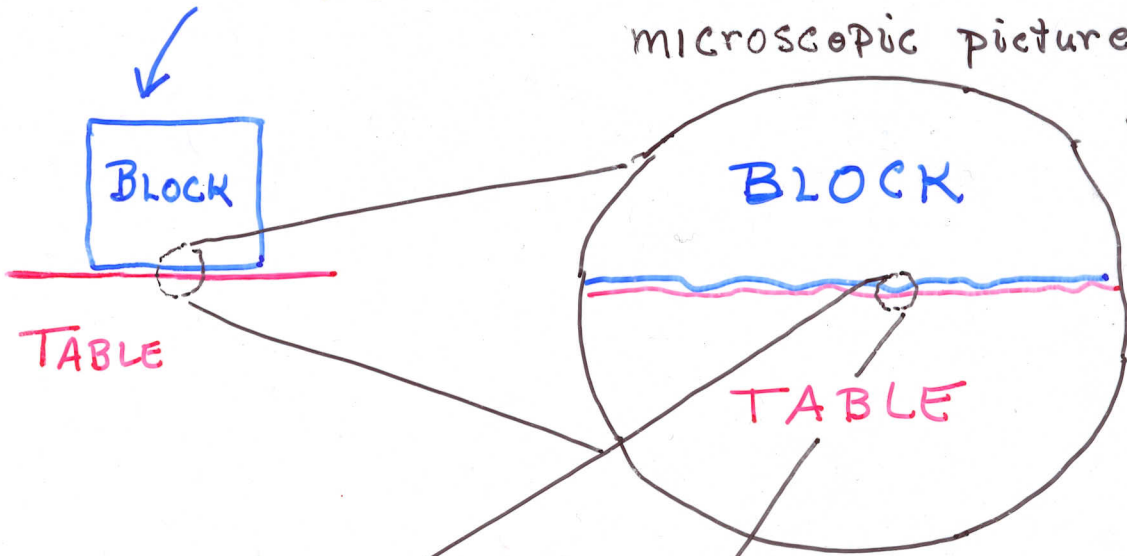


BOTH OBJECTS ARE NEUTRAL

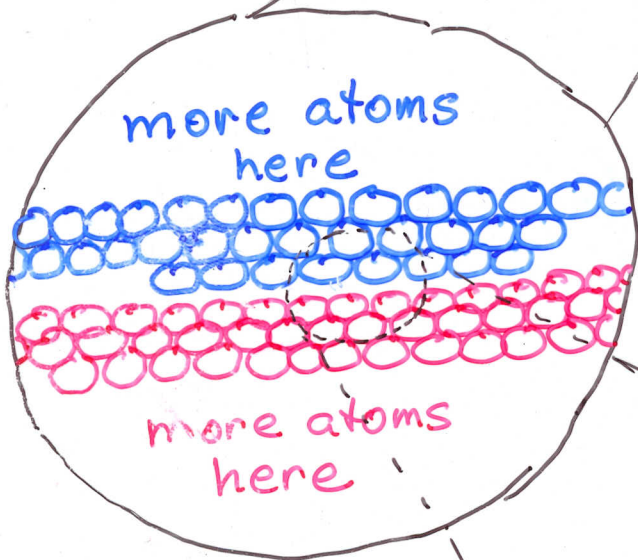
MICROSCOPIC picture

scale $\sim 10\mu\text{m}$



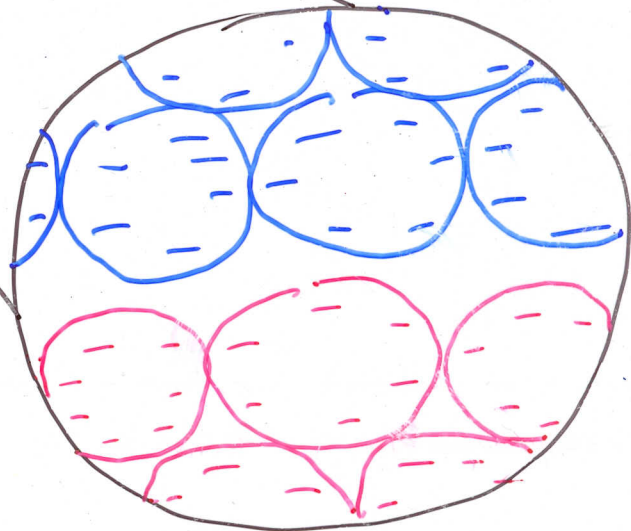
nanoscopic picture

scale $\sim 10\text{nm}$



a model of
"non-sticky" contact

atomic scale
scale $\sim 1.0\text{ nm}$



THE "CONTACT FORCE" BETWEEN TWO SURFACES IS
AN ELECTROMAGNETIC REPULSION