Prediction of cyan vehicle about the motion of red car using dynamic or kinematic model.

$t = t_2$
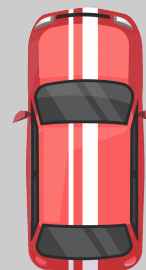
$t = t_0$

$t = t_1$

Physics-Based Model

$t = t_0$