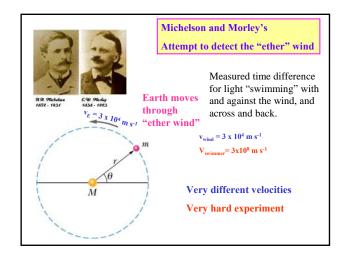


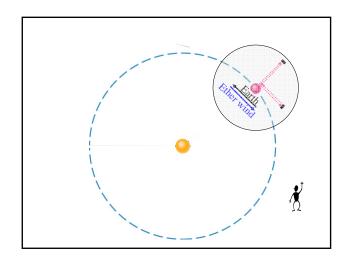
It was assumed that space was filled with "luminiferous Ether", and that this was the "medium" through which light-waves propagated.

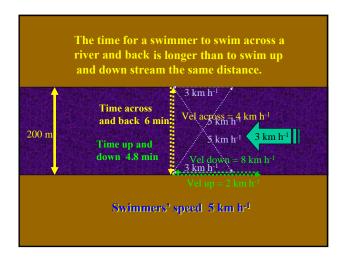
From an observer on Earth, the velocity of light should depend on velocity of the medium (the velocity of the "ether wind" passing Earth).

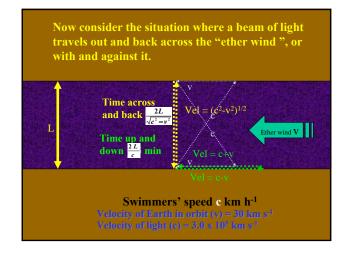
Does it???

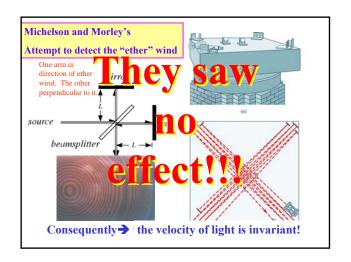
Michelson and Morley attempted to find out.

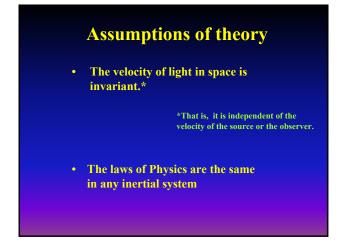




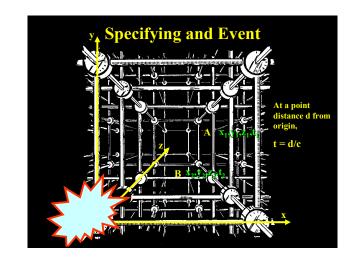


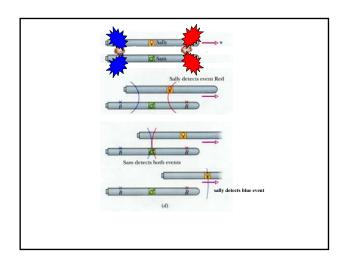






An event To specify an event, an observer must assign 3 space coordinates (x,y,z) and a time coordinate (t). So we need a calibrated reference frame







The order of occurrence of two events, as observed in two different reference frames is not the same. Simultaneity is relative

