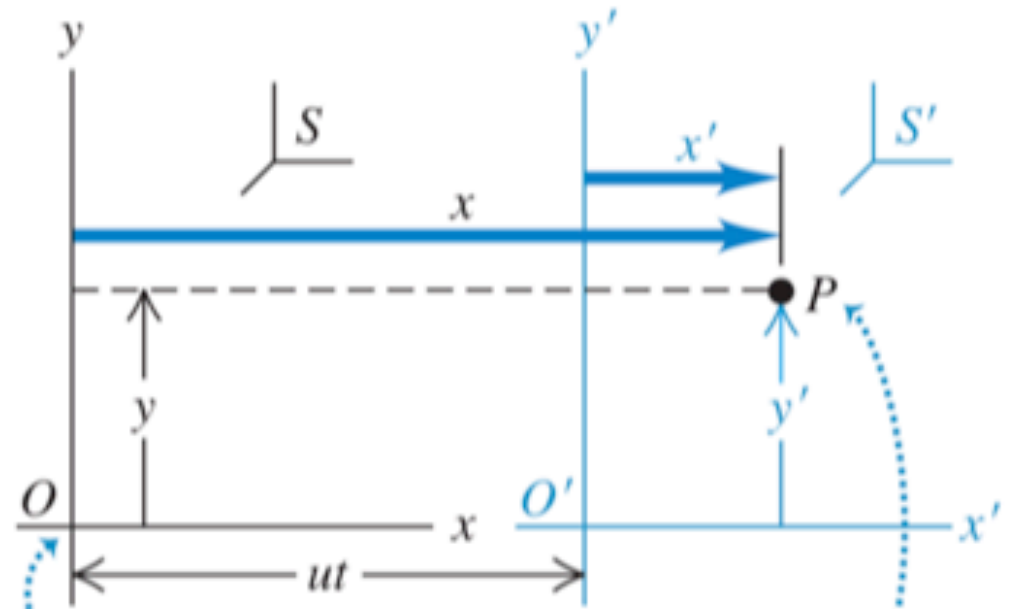


Last lecture

- Lorentz transformations
- Velocity transformations

This lecture

- Applications:
 - rockets
 - Doppler effect
- Relativistic Momentum



Origins O and O'
coincide at time $t = 0 = t'$.

The Lorentz coordinate transformation relates the spacetime coordinates of an event as measured in the two frames: (x, y, z, t) in frame S and (x', y', z', t') in frame S' .