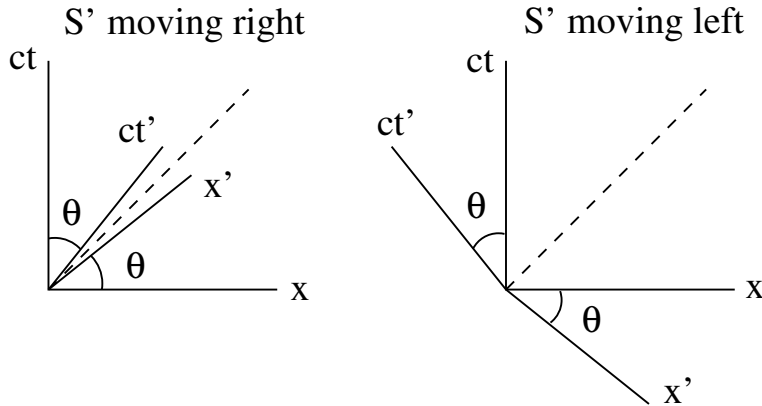


# Twin Paradox [mln56]

Jack and Jill are twins. They synchronize their watches (and calendars) at  $t = t' = 0$ . Then Jill travels into space at  $v = 0.8c$  for some time, turns around, and returns at the same speed.



Jack's perspective:

- While Jill is outbound she ages 3 years and he ages 5 years.
- Jill turns around quickly.
- While Jill is inbound she ages 3 years and he ages 5 years.

Jill's perspective:

- While outbound she ages 3 years and Jack ages 1.8 years.
- As she turns around quickly Jack ages 6.4 years.
- While inbound she ages 3 years and Jack ages 1.8 years.

