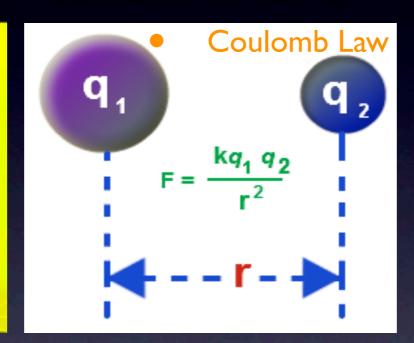
Electric charge, Electrostatic Force & Electromagnetic Force

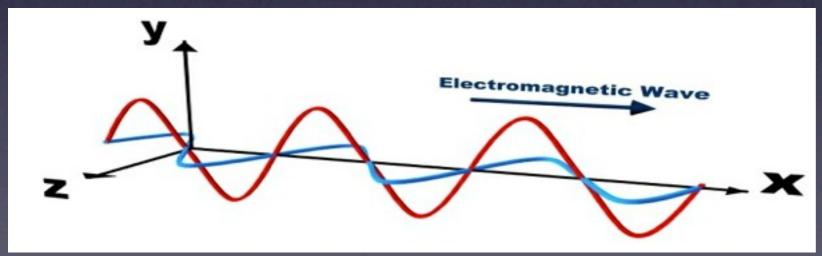


- Charles Coulomb (1736-1806: French)
 - Studied relationship between force and charge

Unit of charge = 1 coulomb (C)

The charge on 1 electron is (1.6 x 10.49 C)





- Electric charge : of a particle+/- units or fraction
- If charged particles are not moving: Electrostatic Force between 2 charged particles q1 and q2 at r distance.
 Coulomb Law: q1xq2/rxr. 2 same charges repel, opposite attract each other.
- If charged particle is moving:
 Magnetic Force: is
 perpendicular on electric F
 (right hand rule), changing
 magnetic poles makes the
 particle to move further