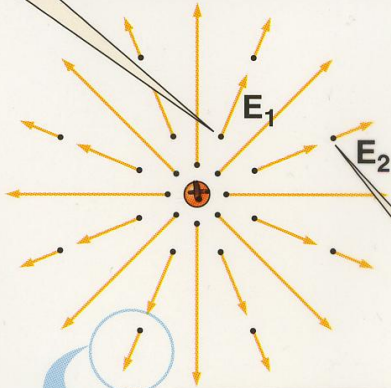


Right at this point the electric field is described by the vector E_1 . That means a point charge q placed here would experience an electric force qE_1 .



Over here, further from the charge producing the field, a point charge q would experience a weaker force qE_2 , in a different direction.

The field is a continuous entity, so there are field vectors everywhere. We just can't draw them all.