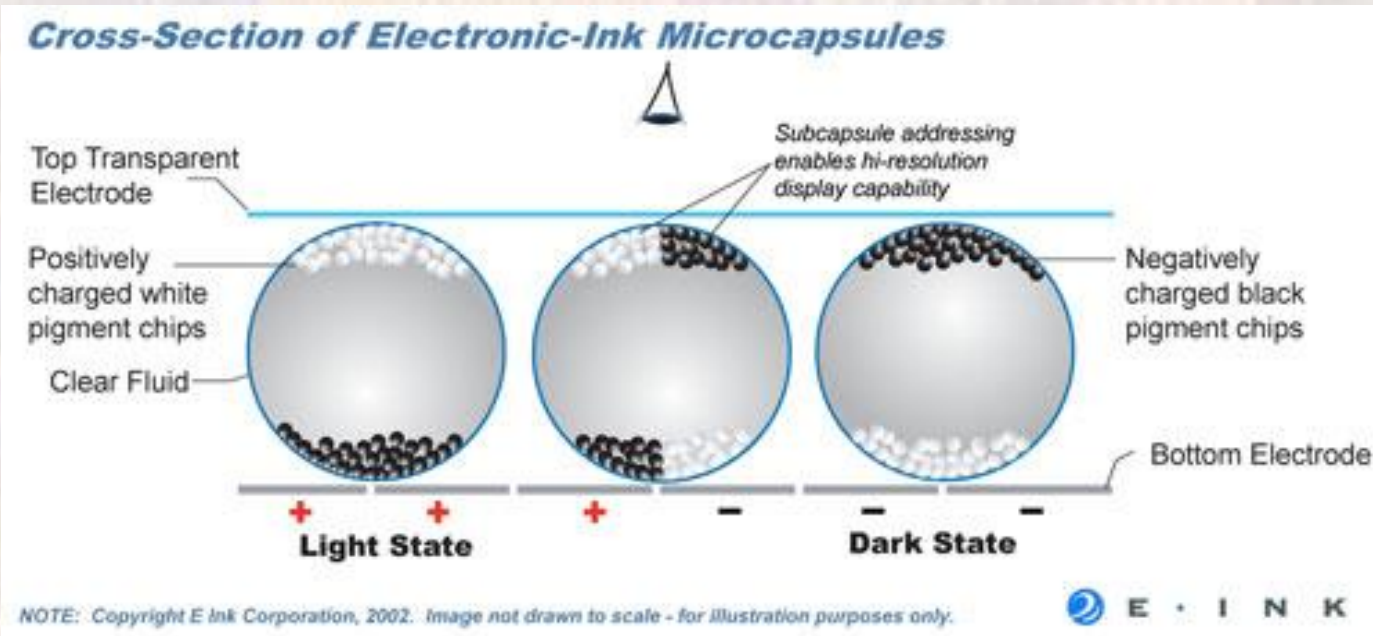


E-ink Displays

Last updated 2/29/24

E-Ink Displays

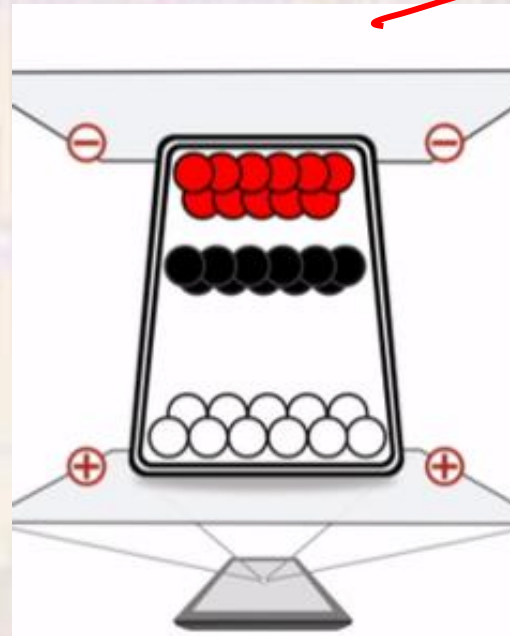
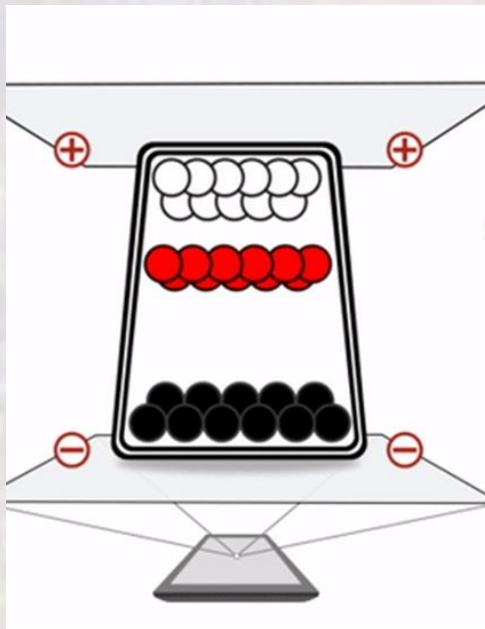
- Overview
 - Charged micro-particles in clear spheres
 - Approximately the size of a human hair
 - Kindle, ...
 - No passive current required



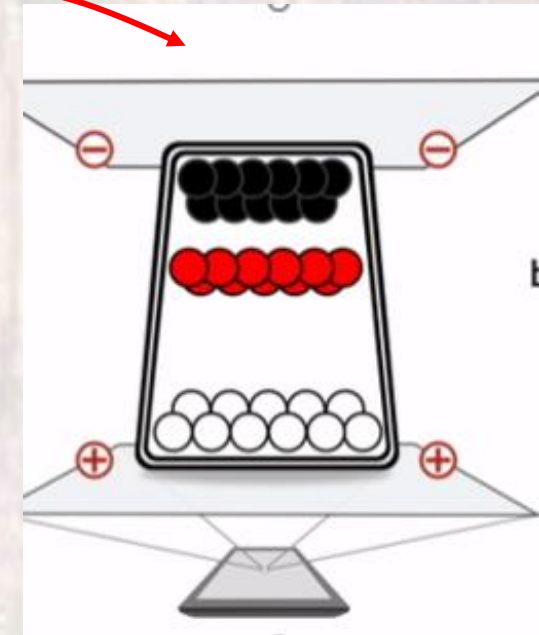
E-Ink Displays

- 3 color
 - White – negative charge
 - Red – positive charge – Q
 - Black – positive charge - q

Momentarily charge the top plate to +, pushing away the red balls
Then return the potential



$V+$



$V++$

E-Ink Displays

- 3 color
 - White – negative charge
 - Red – positive charge – Q
 - Black – positive charge - q

Mobility differences in the Red and Black balls cause a smaller field to move The Red balls to the top. A larger voltage Forces the black balls past the Red balls

