

SOLVENT: A liquid into which something else is mixed (e.g., water, oil, rubbing alcohol)

SOLUTE: What is put into a solvent (e.g. the ingredients)

SOLUTION: What you get when you have a solute dissolved into a solvent

The primary reason not everything dissolves in every solvent has to do with electromagnetic fields (charge!)

Some substances are:

non-polar: these show no charge at all

polar: have small amounts of charge that changes in different spots of the particle

ionic: are completely charged (with one charge)

Non-polar:



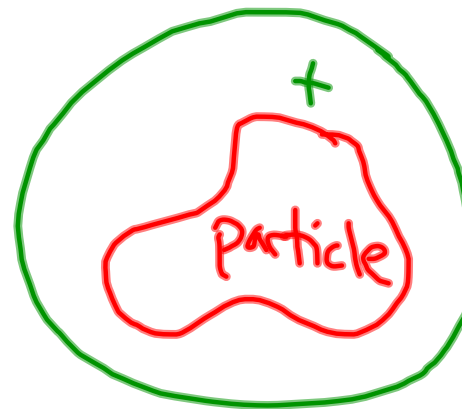
like
N & S
on a magnet

0 = no charge
+ = positive charge
- = negative charge

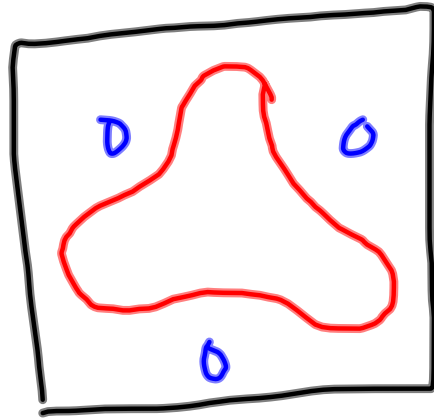
Polar:



Ionic:

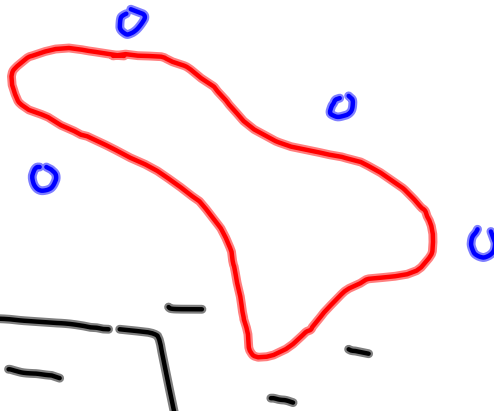


oil:



= non-polar

rubbing
alcohol:



= polar

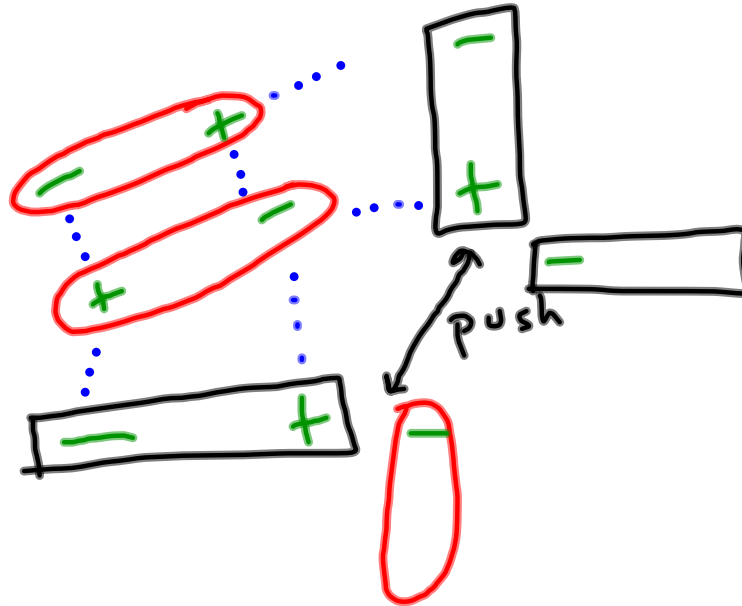
Water:



= polar

polar + polar:
solvent solute

will usually
mix to form a
solution



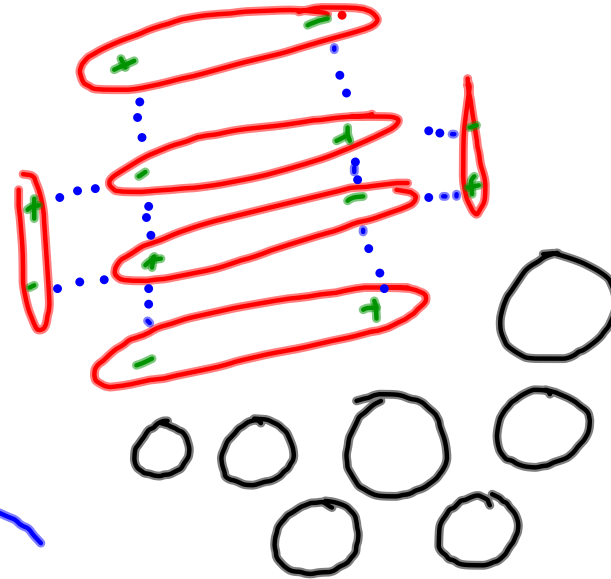
polar
solvent + ionic
solute



polar solvent + non-polar solute

will not
mix together

non-polar solvent + polar or ionic solute
oil food coloring



non-polar solvent + non-polar solute = WILL mix