Source: [KB20200824220730]

1 | Properties of water

Cohesion

- · Individual molecules held up well +
- · Strong surface tension

Adhesion

- · Water attracts other molecules, and it stick to water pretty well
 - If we make water molecules touch another molecules, it will stick to it and start moving
 - Think: a straw a thin straw could draw up water without additional pressure just by water working its way up using adhesion
- This is how we make "xylum" and "Pholem" happen
 - Water's adhesive force and adhesive force only is how water travels upwards from a tree
 - Given that some trees are, em, pretty tall, this means that the capillaries that the water travel in must be very small
 - · A Pico-Gauge could be used to measure the pressures within the phorlem

Water...

- is wet => Strong tetrahedral H-Bonds
- is sticky => Has both Cohesive and Adhesive Properties
- · have a high specific heat capacity.
 - · Strong bonds
 - Resistant to change

Water's Universal Solvent Properties

Water has high solubility

- · Many things could dissolve in water
- · Makes chemical processes quite easily
- Quite versatile could dissolve stuff easily

Hydrophillic + Hydrophobic Effects of Water

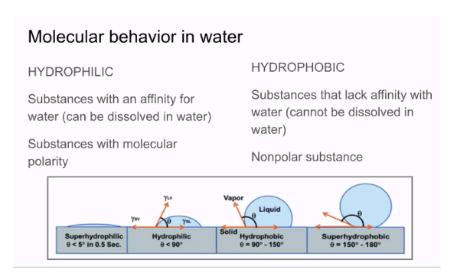


Figure 1: Screen Shot 2020-08-26 at 3.07.53 PM.png

- In hydrophillic senarios, water will to "puddle out" ("Wetting") adheses to the surface
- In hydrophobic senarios, water leverage its cohesion properties to create spheres