(11) **Today**

Sections 2.4 - 2.6 Electron Delocalization

Bring Modeling Kits

Next Class (12)

Sections 2.4 - 2.6 Resonance/Electron Delocalization

Bring Modeling Kits

Sections 2.7 – 2.11 Acids and Bases

(13) Second Class from Today

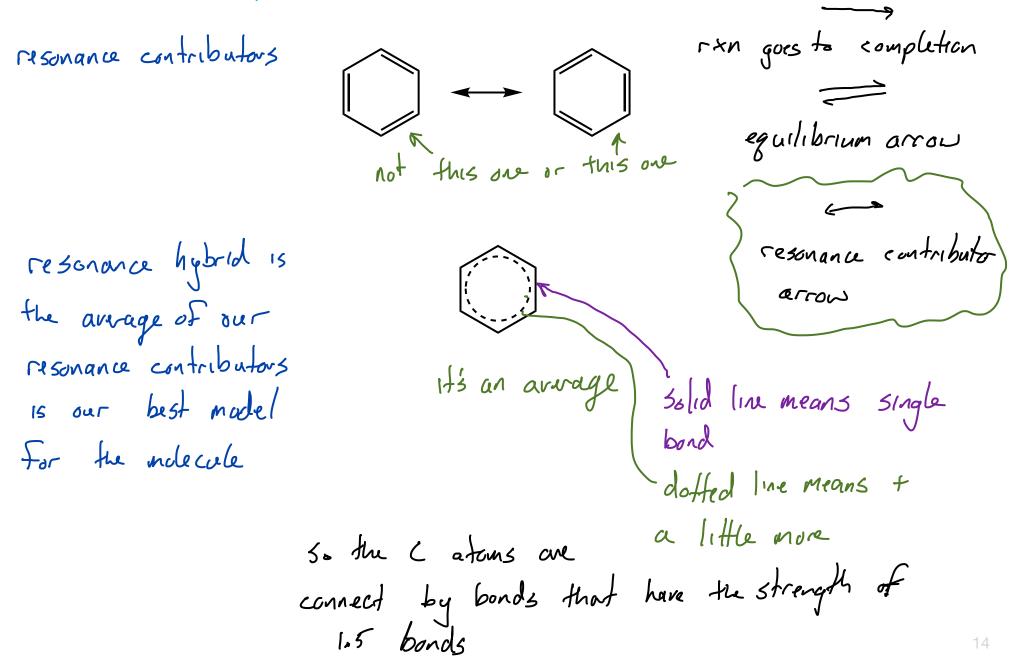
Sections 2.7 – 2.11 Acids and Bases

Third Class from Today (14)

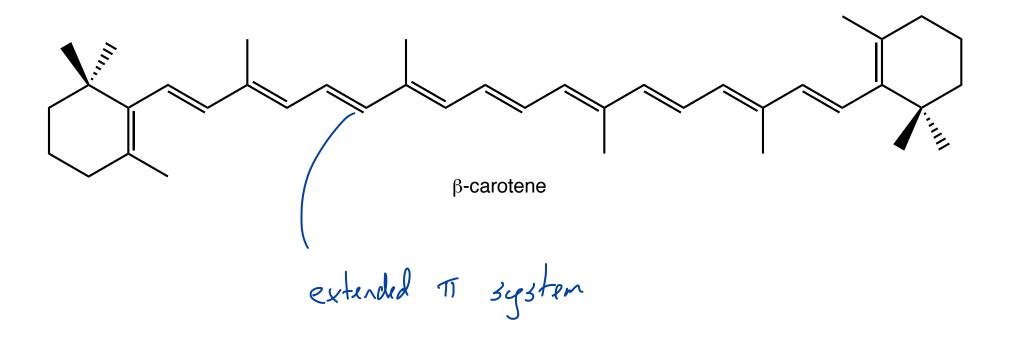
Test 1 Chap 1 and Chap 2.1 - 2.6

Resonance: A Way to Deal with Delocalized Electrons

Whenever 3 or more p orbitals are in a row experiments and MO theory say that the electrons are delocalized over all of the p orbitals.



Resonance: Where else do we see extended π systems/electron delocalization

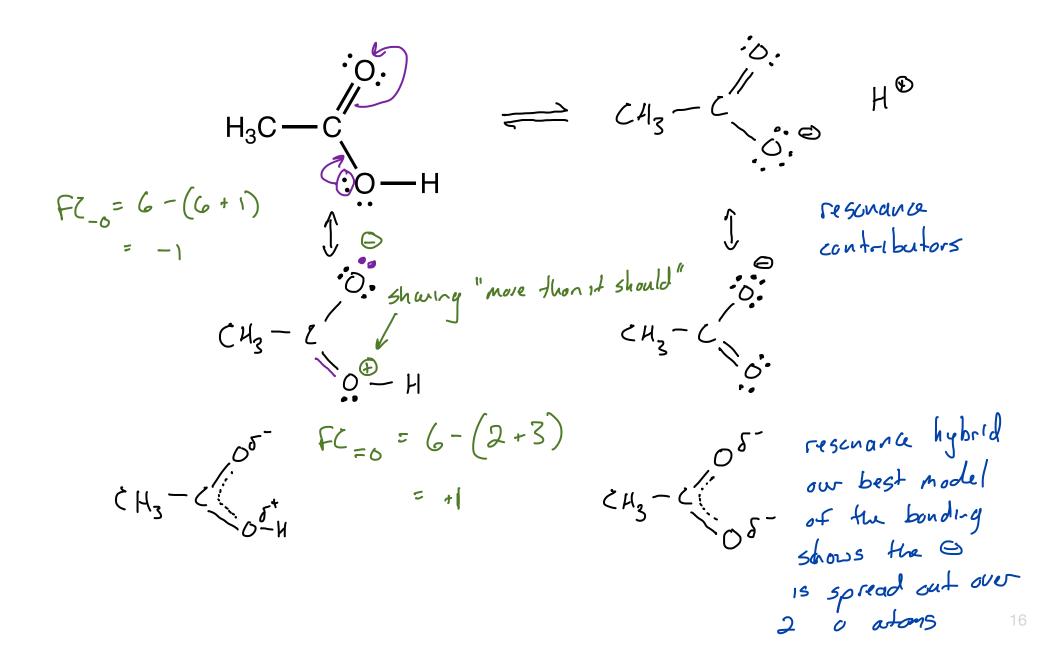


radical scavinger

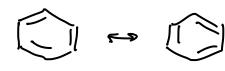
Resonance: lone-pair electrons

Section 2.4

Whenever 3 or more p orbitals are in a row experiments and MO theory say that the electrons are delocalized over all of the p orbitals.

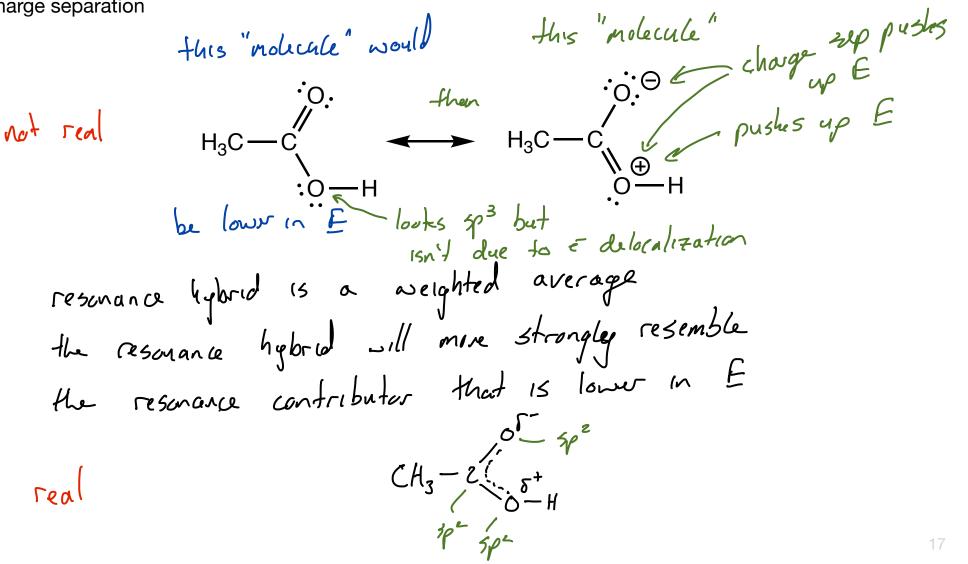


Resonance: The resonance hybrid resembles...



The more stable the resonance contributor is, the more it contributes to the resonance hybrid

- 1. Incomplete octets
- weird
- 2. "Wrong" charges
 - negative charge is not on the most electronegative element
 - a positive charge on an electronegative element
- 3. charge separation

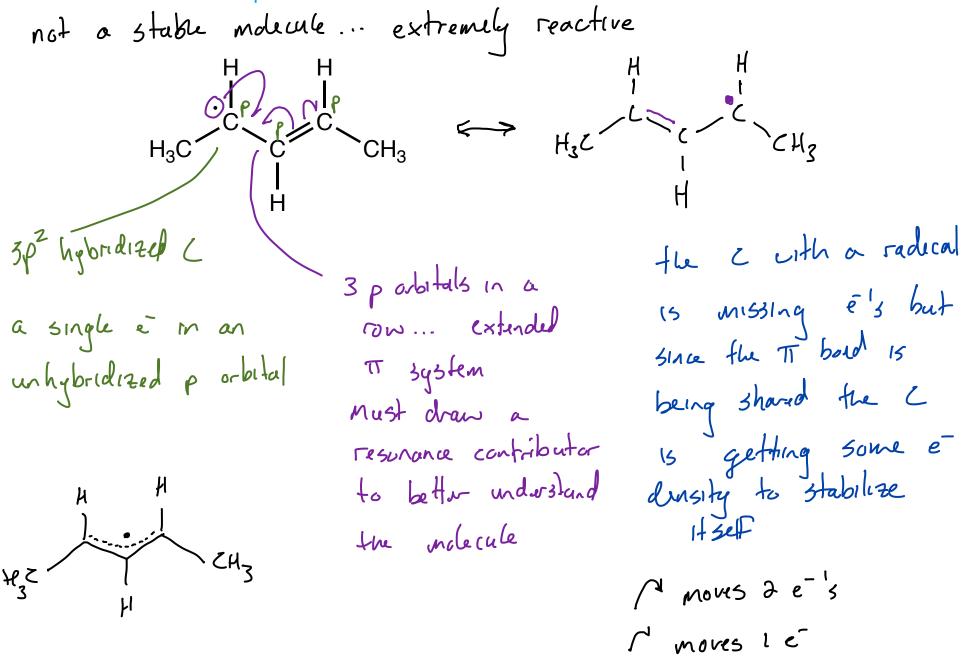


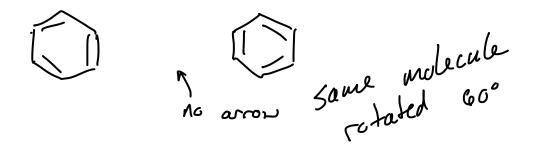
Resonance: Radical electrons

Section 2.4

Whenever 3 or more p orbitals are in a row experiments and MO theory say that the electrons are delocalized over all of the p orbitals.

radical means odd # of e's





This arrow means I'm drawing this arrow means I'm drawing this arrow means resonance contributors the arrows add meaning