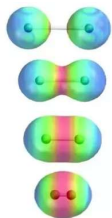
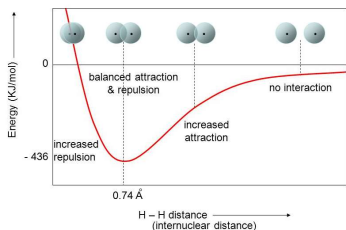
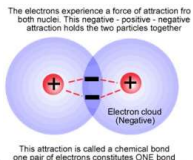
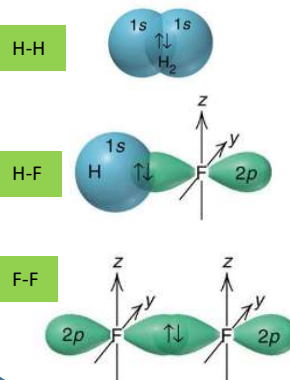


### Coulomb's Law



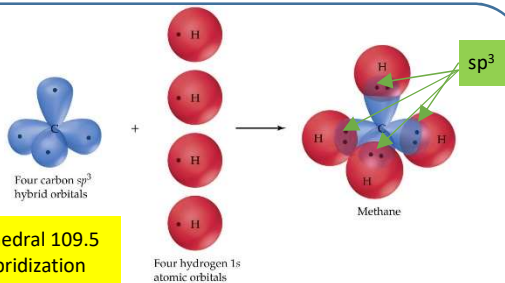
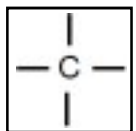
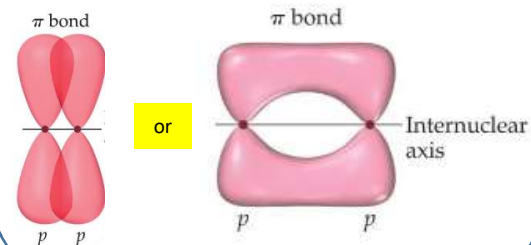
### Sigma Bonds ( $\sigma$ bonds)

Overlap is end-to-end  
e- density between atoms  
"unreactive"

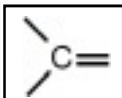


### Pi Bonds ( $\pi$ bonds)

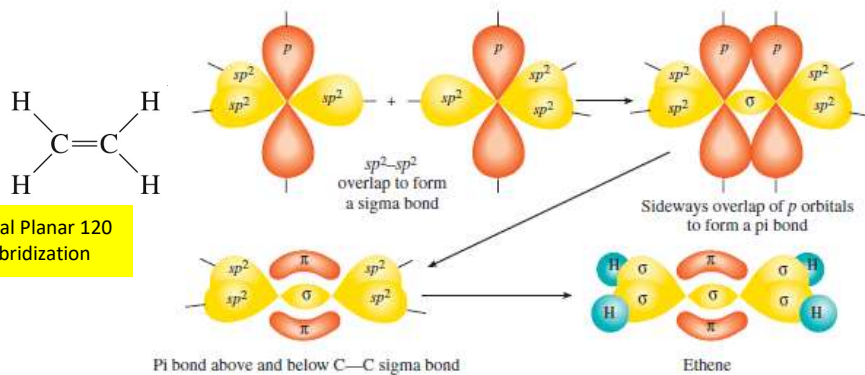
Overlap is side-by-side  
e- density above and below atoms  
"reactive"



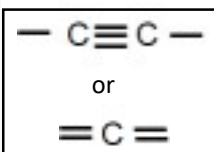
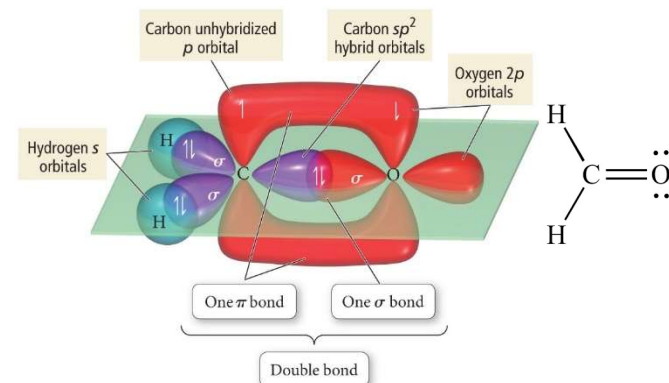
VSEPR - Tetrahedral 109.5  
VBT -  $sp^3$  hybridization



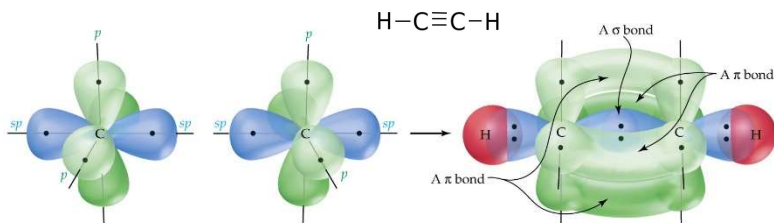
VSEPR - Trigonal Planar 120  
VBT -  $sp^2$  hybridization



or



VSEPR - Linear 180  
VBT -  $sp$  hybridization



or

