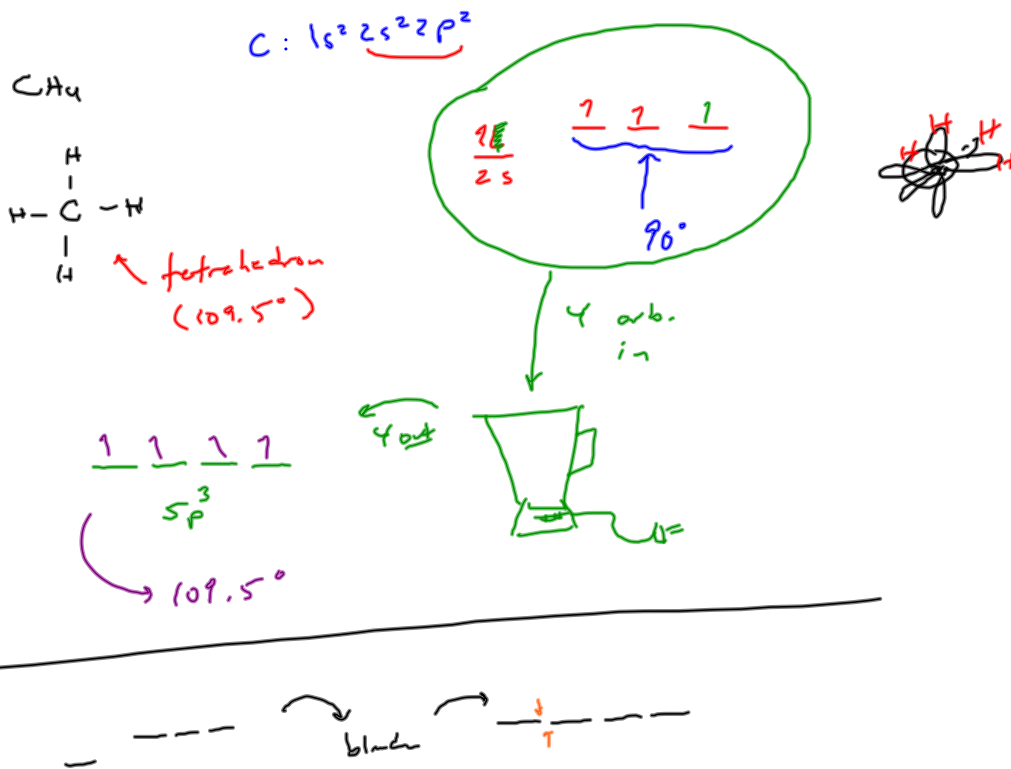
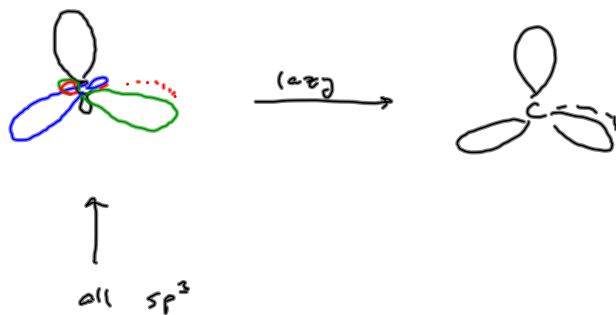
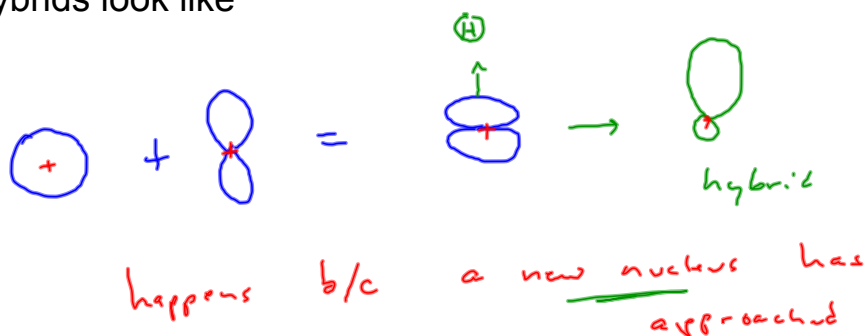


Hybridization



Nov 11-6:58 AM

What hybrids look like



Nov 11-7:03 AM

of things and hybridization

2 things \rightarrow linear



3 things \rightarrow trig planar



4 \rightarrow sp^3

5 things \rightarrow sp^3d

6 things \rightarrow sp^3d^2

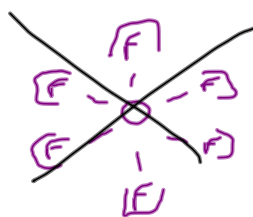
$$H - \bar{N} = 0$$

Nov 11-6:59 AM

SF₆ vs. OF₆



sp^3d^2

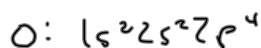


doesn't exist

sp^3d^2



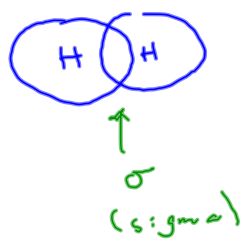
↑
level 3 includes d orbitals



↑
no d orbitals!

Nov 11-7:01 AM

Valence Bond Theory — overlap orbitals → bonds



valence bond orbital overlap diagram (VBOOD)

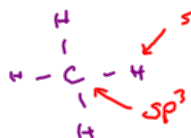
+ ... σ ... +
if you are in the bond → sigma

Nov 11-7:02 AM

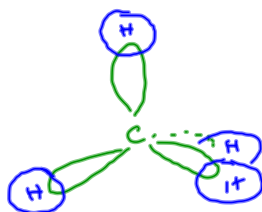
Valence Bond Theory



① LDS

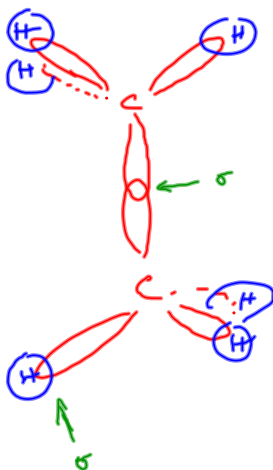
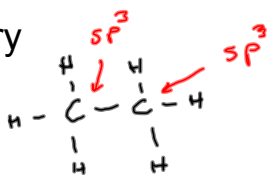


② hybridization



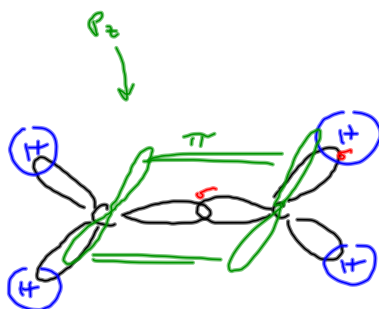
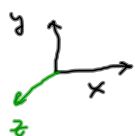
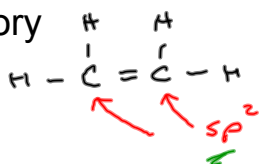
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Valence Bond Theory



Nov 11-7:02 AM

Valence Bond Theory



90°



Nov 11-7:02 AM