

# Geometry and favorite bonding modes (total number of bonds) for C, N, O, halogen, H

4   3   2            1       1

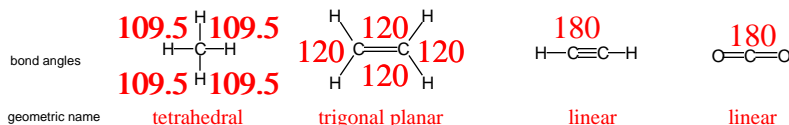
|  |         |
|--|---------|
| NO, these elements may have a variable number of bonds | (2) (1) |
|  | (4) (3) |

supplemental HO 68

**VSEPR = valence shell electron pair repulsion**

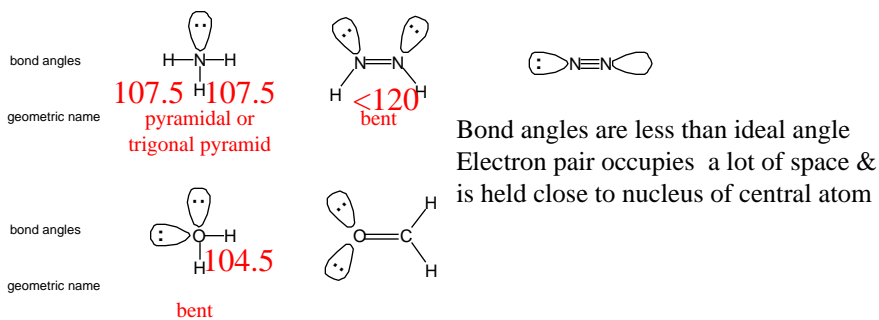
Determine the angles between bonds, name the geometry about the central atom and give the its hybridization.

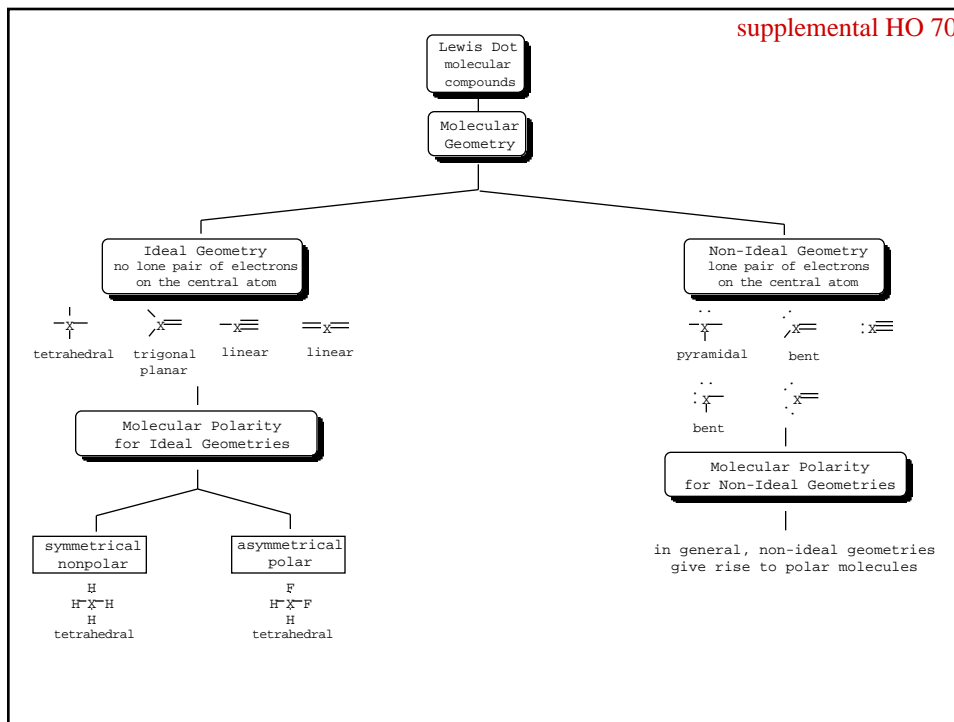
**Ideal Geometries**                      **Ideal bonding angles for carbon**



**Ideal bonding for carbon are four bonds to carbon - four bonding modes**

**Non-Ideal Geometries**





## Structure and Bonding

[Go to the powerpoint](#)  
[Rules for Drawing Lewis Dot Structures](#)