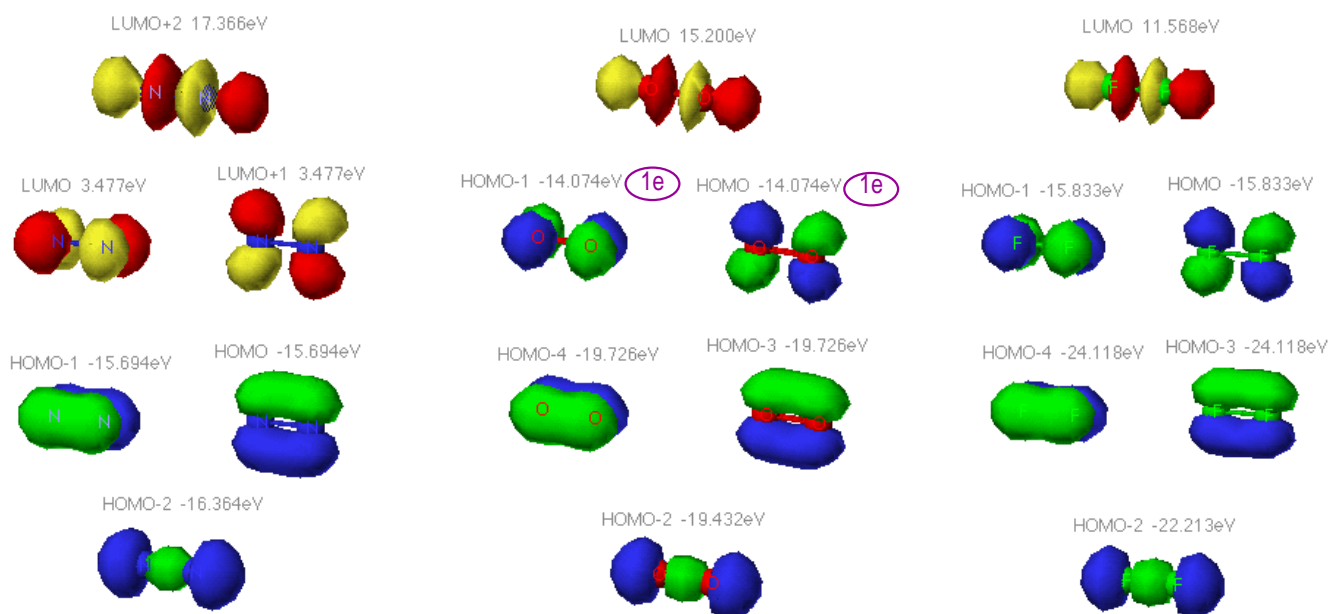


## Molecular Orbital Surfaces (ab initio 3-21G)

$N_2$

$O_2$

$F_2$

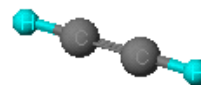
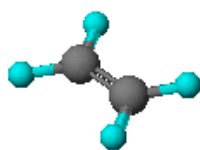
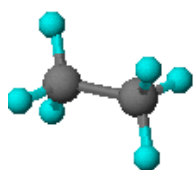


## Molecular Orbital Surfaces of $\sigma$ and $\pi$ Orbitals in $C_2H_n$ ( $n = 6,4,2$ ) (ab initio 3-21G)

ethane,  $C_2H_6$

ethylene,  $C_2H_4$

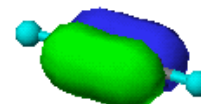
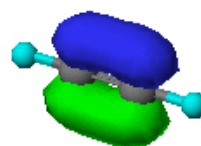
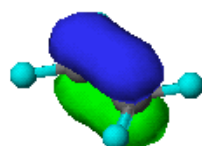
acetylene,  $C_2H_2$



HOMO -10.308eV

HOMO -10.960eV

HOMO-1 -10.960eV



HOMO-6 -27.871eV

HOMO-5 -28.122eV

HOMO-4 -27.805eV

