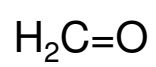
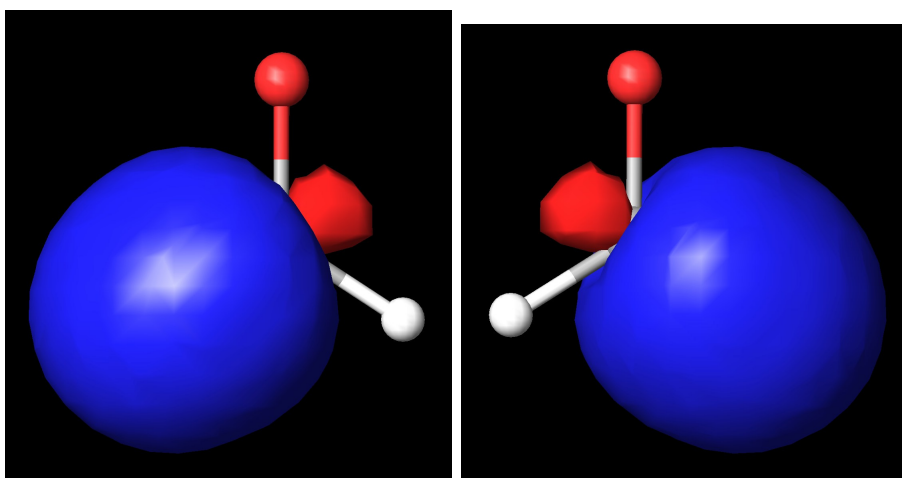


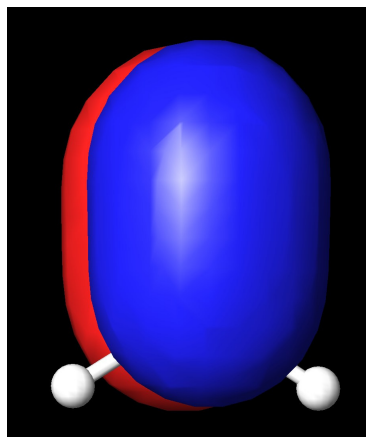
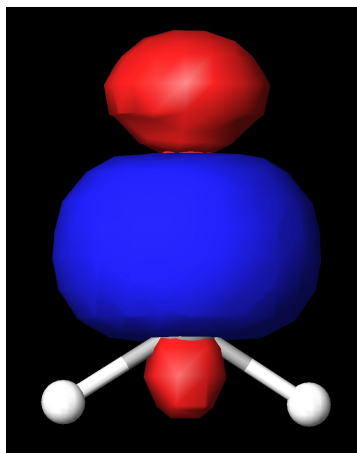
Formaldehyde – LMOs



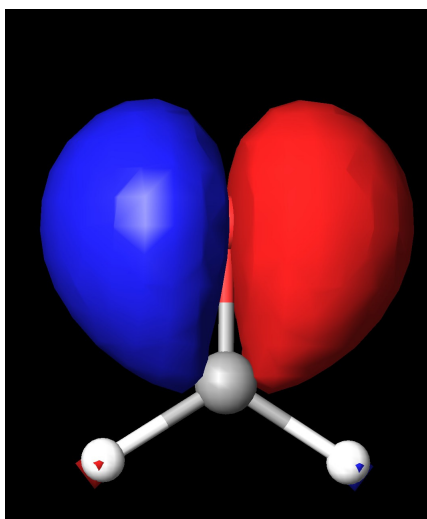
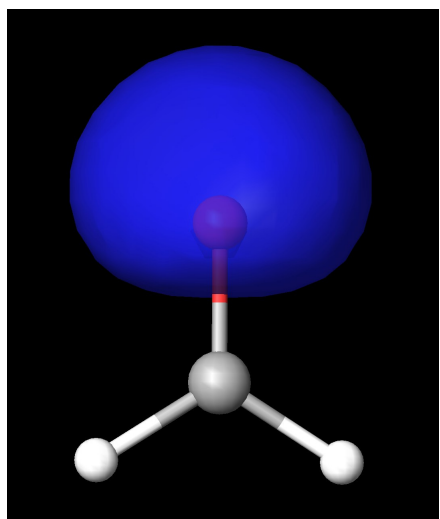
CH σ orbitals



CO σ & π orbitals



O LP orbitals ("s" & "p")



Final Comments

- Orbitals involving C look like they are based on sp^2 family
 - 3 identical σ bonds (from C perspective)
 - 1 π bond
- Orbitals involving O are harder to fathom
 - Computer program does not try to “fit” or “match” outcome to simple models like sp , sp^2 and sp^3
 - Different programs give different results
 - *Pick any set that works* and use it consistently