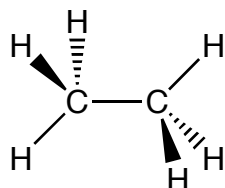
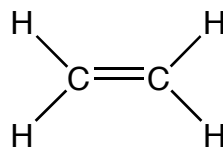


Structures of Alkynes

sp^3



sp^2



sp



formula	C_nH_{2n+2}	C_nH_{2n}	C_nH_{2n-2}
angle	109.5°	120°	180°
C—H	1.095\AA	1.076\AA	1.061\AA
C—C	1.54\AA	1.33\AA	1.20\AA
Average DH° for C—C	90	173	229
pKa	~ 50	~ 42	25

higher s character = more electronegative because s-orbital is closer to (positive) nucleus