

# Chapter 10: Bonding & Molecular Structure

## Hybridization

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Valence Bond Theory - orbital overlap  
creates covalent bonds

Hybridization

single bond vs double bond vs triple bond

$\sigma$

$1\sigma + 1\pi$

$1\sigma + 2\pi$

definition of a sigma bond vs a pi bond

cis-trans isomerism (need double bond)