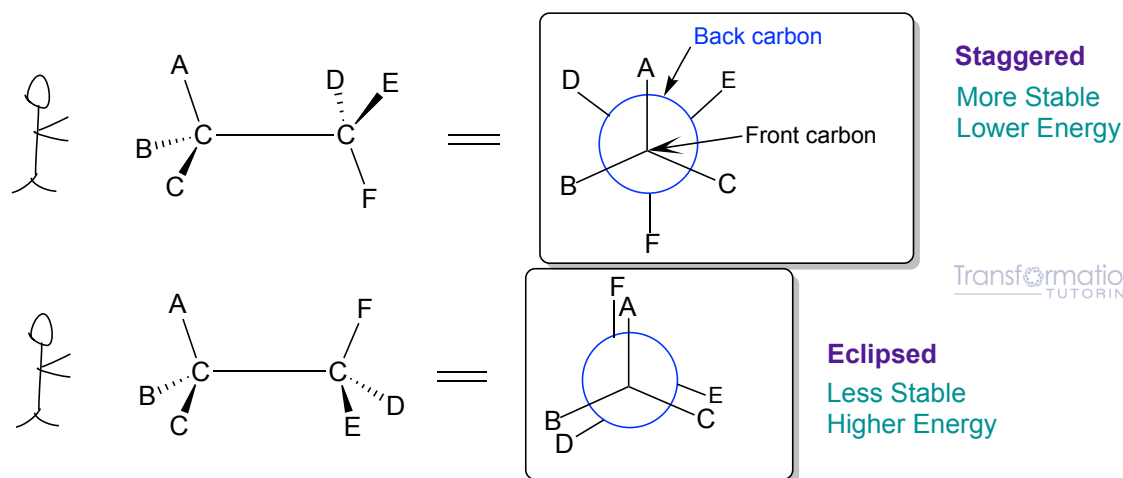
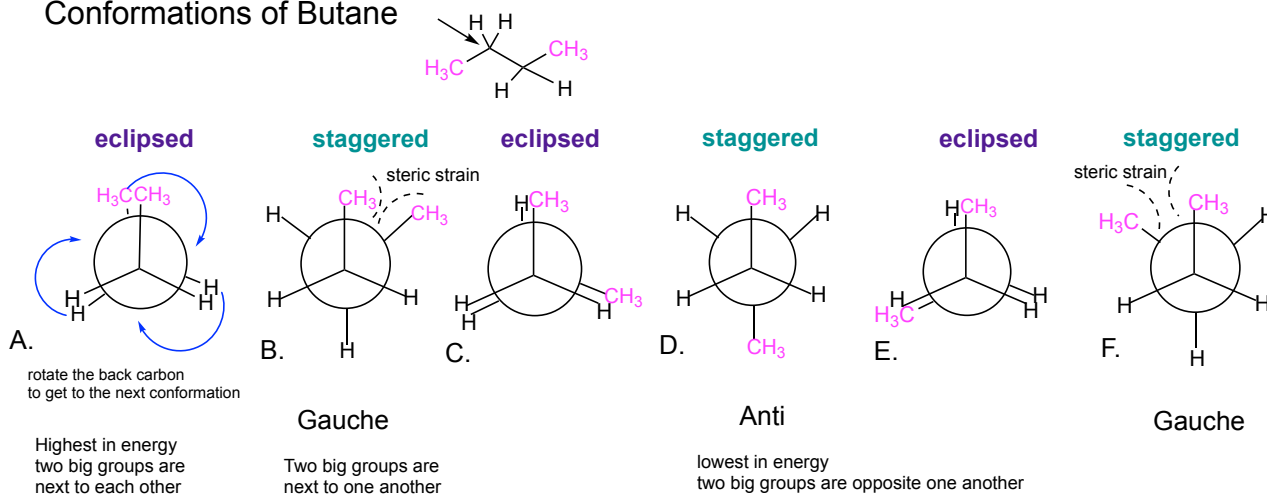


Newman projection is a short hand way to represent a molecule looking straight down a bond connecting two carbons.



## Conformations of Butane



Highest to Lowest Energy (Least to Most Stable)

A>C=E> B=F>D

## Notes:

- Staggered is more stable and lower in energy than eclipsed.
- When big groups are next to one another in any conformation, it is destabilizing (higher energy).
- When big groups are opposite of one another in staggered conformation, it is called ANTI (more stable).
- When big groups are next to one another in staggered conformation, it is called GAUCHE (less stable).