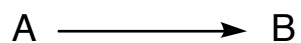
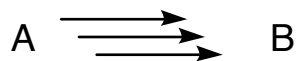


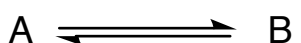
## Flavors of Arrows Used in Organic Chemistry



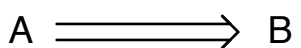
reaction arrow: **A** reacts to give **B**



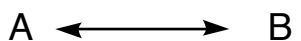
There are multiple steps between **A** & **B**



equilibrium arrow: **A** and **B** are in equilibrium



retrosynthetic arrow: **A** is to be made from **B**



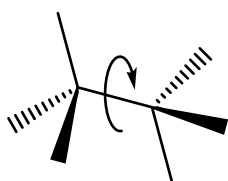
resonance arrow: **A** and **B** are resonance structures



mechanism arrow: pushing a *pair* of electrons



mechanism arrow: pushing a *single* electron



rotation around a single bond to give a new conformation (a type of equilibrium)