

# NUCLEOPHILES

from strong to weak

1.  $t\text{BuO}^-$   $\text{E}2$  only  
anti Sayzefp strong bronsted base

---

2.  $\text{RC}\equiv\text{C}^-$   
 $\text{RNH}^-$   $\text{NH}_2^-$   
 $\text{RO}^-$   $\text{HO}^-$   $\text{S}_{\text{N}}2$  +  $\text{E}2$   
strong bronsted base  
+  
good nuc

---

3.  $\text{X}^-$ ,  $\text{CN}^-$   $\text{S}_{\text{N}}2$   
good nuc

---

4.  $\text{H}_2\text{O}$   
 $\text{ROH}$   
 $\text{RNH}_2$   $\text{S}_{\text{N}}1/\text{E}1$   
weak base  
weak nuc

---