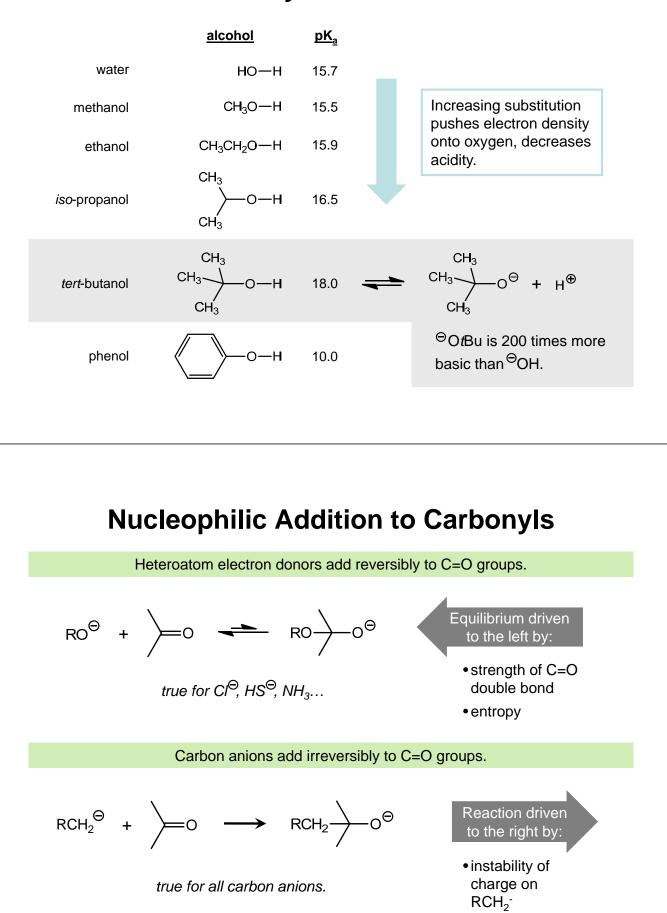
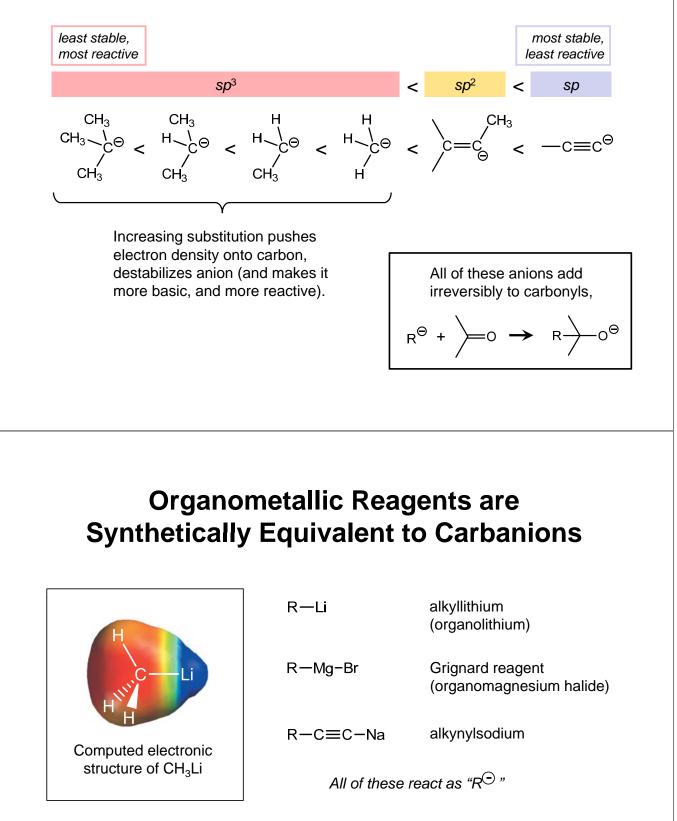
Acidity of Alcohols



Relative Stabilities of Carbanions



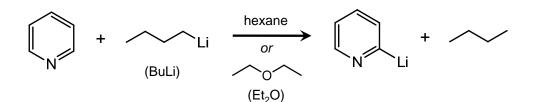
Generating Organometallic Reagents

1. Deprotonation.

Not common. Works for alkynyl, some sp² anions, but not for sp³ (because alkanes are not acidic enough).

Examples:

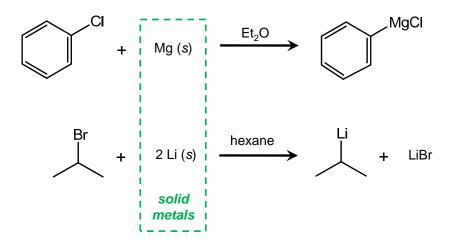
 $CH_3 - C \equiv C - H + NaNH_2 \longrightarrow CH_3 - C \equiv C - Na + NH_3$



Generating Organometallic Reagents

2. Metalation of an alkyl halide.

Common for Grignard reagents, *sp*³ alkyllithiums. *Examples:*



Generating Organometallic Reagents

3. Lithium-halogen exchange.

Common for *sp*² alkyllithiums. Not useful for *sp*³ alkyllithiums. *Example:*

