# Acid Chlorides & Anhydrides

Esters

2/27/2023

#### Reactions of Acid Chlorides

# With Reducing Agents: 12 Mile transfer agents

#### Reactions of Acid Chlorides

## With Grignard Reagents

mechanism: acyl transfer strong busiz (aribriz) nudeuphile

@ before

$$\sum_{k=1}^{n}$$

#### Reactions of Acid Chlorides

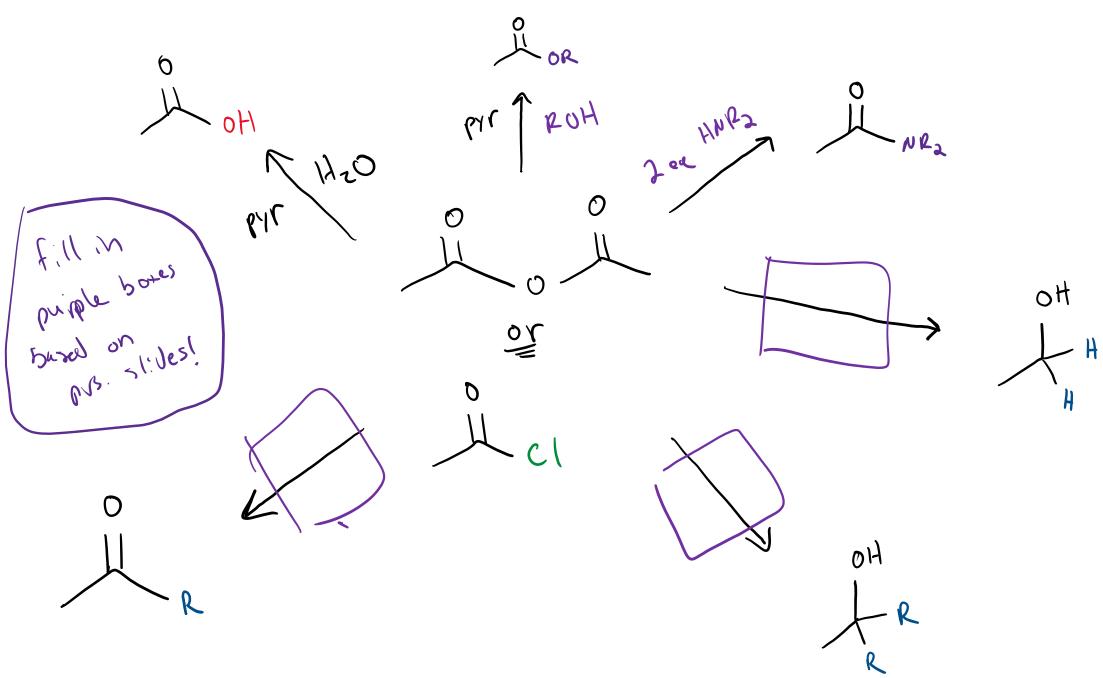
P'2 Cu Li - acts like "milder" With Organocuprates ("Gilman Reagents"): Grignord / Alkyllithium malcing the rorgano cuprate (Strong, buric amonic)

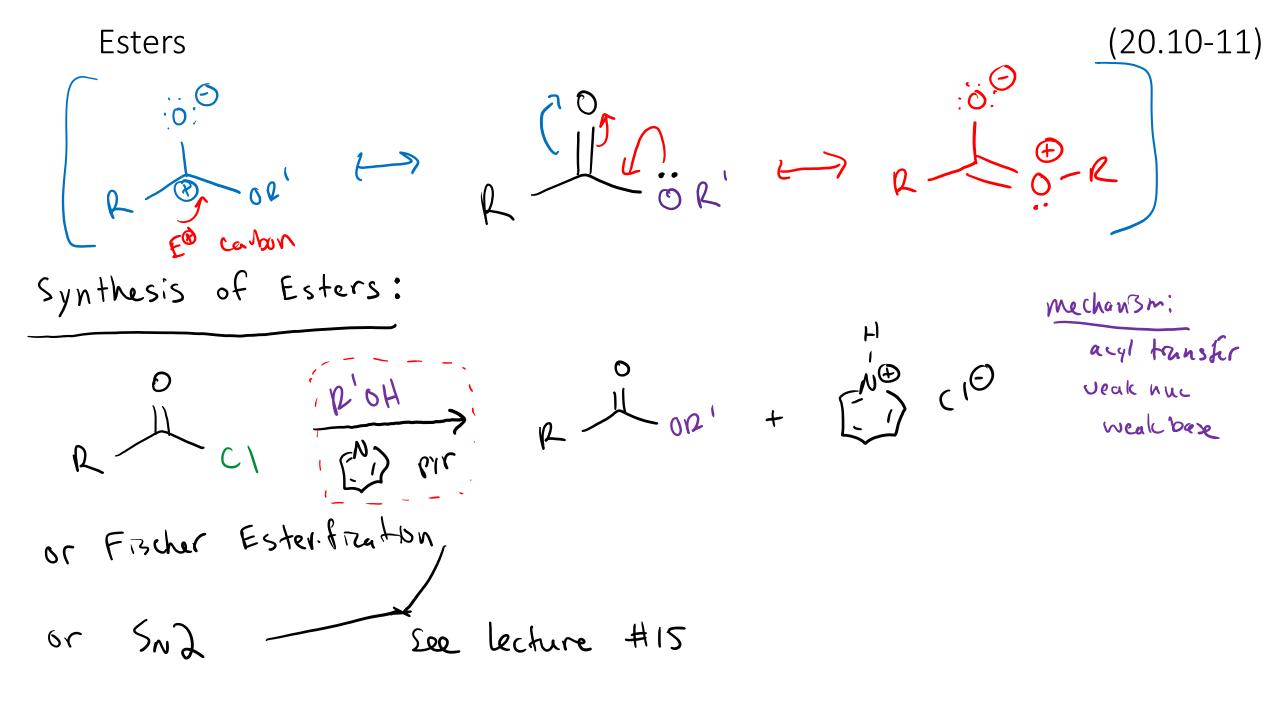
acyl transfer mechanism:

Anhydrides almost as like acid chloride reachs Synthesis of Anhydrides: NaoH acyl + H20 bygon transfur + NAB tansfer busic (anionic) 1(9

nucleophile

Reactions of Anhydrides & Acid Chlorides: Recap

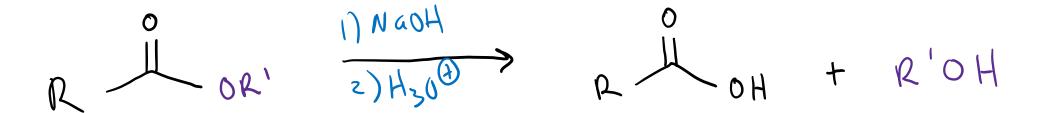




### Hydrolysis of Esters: Acidic Conditions

", 1720x", Fud rxn: Lydn'ysis mechanism: Fischer Estevitization 12204 1 cmuse 12'0H Use excess 120 1 (as solvent)

Hydrolysis of Esters: Basic Conditions



mechanism: