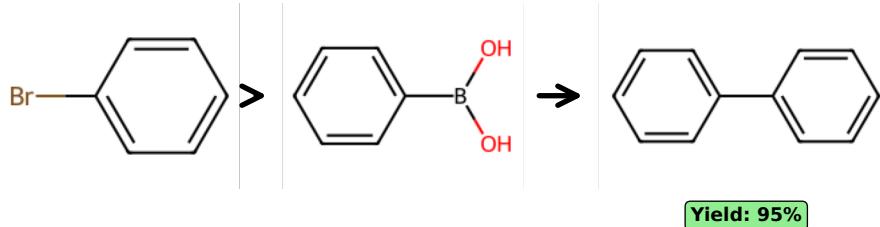


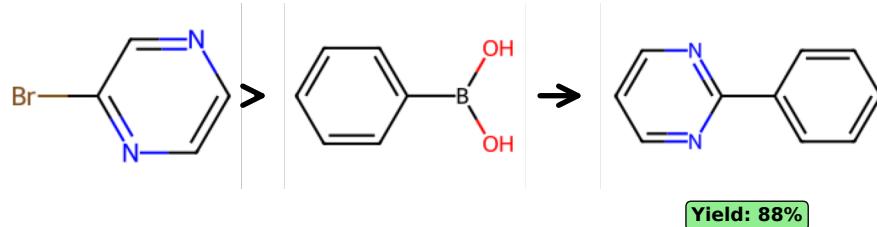
### Simple Aryl Bromide

Pd, PPh<sub>3</sub>



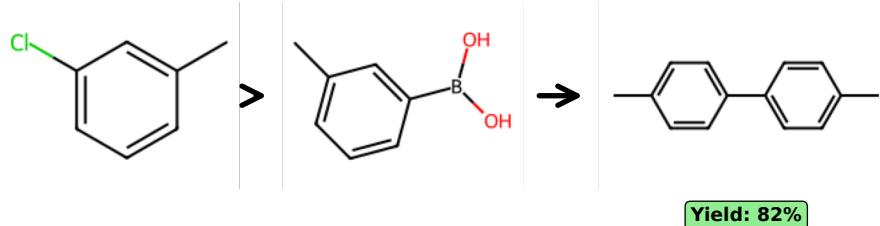
### Heteroaryl Coupling

Pd, XPhos



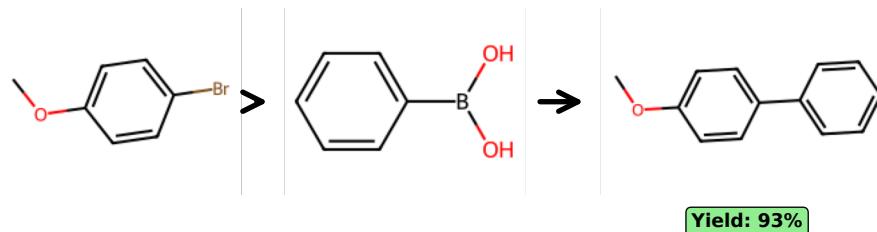
### Ni-Catalyzed Chloride

Ni, BINAP



### Electron-Rich Aryl

Pd, SPhos



### Fe-Catalyzed

Fe, dppf

