

Recap Framework :

- ① Optimality Condition (Necessary & Sufficient)
- ② Gradient Descent Framework $\left\{ \begin{array}{l} \text{exact line search} \\ \text{backtracking (inexact line search)} \end{array} \right.$
Newton's Method
- ③ Conjugate function
Norm \longleftrightarrow Dual Norm
Proximal Mapping $\left\{ \begin{array}{l} \text{norm} \\ \text{indicator function} \end{array} \right.$
- ④ PG Method
ADMM Method
- ⑤ Coordinate Descent Framework
- ⑥ Lagrangian Duality & KKT Condition