Title of the Presentation

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December 30, 2018



Outline

- 1. Bullet Point Section
- 2. Block Section
- 3. Formula Section

Bullet Point Section

Enumerations

- Bullet point 1
 - Bullet point 1
 - Bullet point 2
 - Bullet point 3
- 2 Bullet point 2
 - Bullet point 1
 - Bullet point 2
 - Bullet point 3
- 3 Bullet point 3

Block Section

Blocks

Regular Block

- Bullet point 1
- Bullet point 2

Example Block

- Bullet point 1
- Bullet point 2

Alert Block

- Bullet point 1
- Bullet point 2

Formula Section

Mathematical Slides

We have an **objective function** $f: \mathbb{R}^k \to \mathbb{R}$

$$\max_{x} f(x)$$

 $[x = (x_1, \dots x_k)]$ subject to some **constraints** within \mathbb{R}^k :

$$g_i(x) = c_i \qquad \leftrightarrow \qquad \lambda_i \qquad i = 1, \dots n$$

 $h_i(x) \le d_i \qquad \leftrightarrow \qquad \mu_i \qquad j = 1, \dots m$

 λ_i and μ_j are the **KKT multipliers** (basically Lagrange multipliers) we introduce for each constraint equation; it measures the change in the objective value of the optimal solution obtained by relaxing the constraint (shadow price).