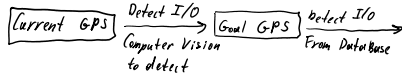


Calculation

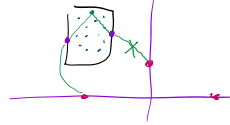
Input 1: Current GPS

Input 2: Goal GPS

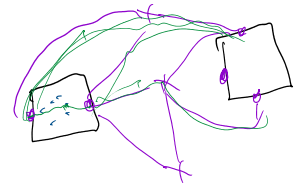
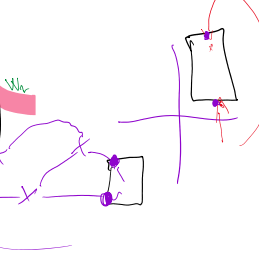
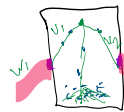


Map → Detect Buildings → GPS Alignment → 4D

O - Private
I - Public



O - A*
I - DFS



$$\hat{\mathbf{x}} = \mathbf{A}\hat{\mathbf{x}} + \mathbf{B}u + \mathbf{L}(y - \hat{y})$$

$$\hat{y} = \mathbf{C}\hat{\mathbf{x}}$$

$$\hat{\mathbf{x}} \approx \frac{\mathbf{x}_{t+1} + \mathbf{x}_t}{2}$$

$$\dot{\hat{\mathbf{x}}} = \mathbf{A}\hat{\mathbf{x}} + \mathbf{B}u$$

$$\hat{y} = \mathbf{C}\hat{\mathbf{x}}$$

u : input (people riding)

y : output (measurement)

x : intermediaries

$$Y(s) = (\mathbf{G}^T - \mathbf{A}^T \mathbf{B}^T \mathbf{U}(s))$$

$$y(t) = g(t) * u(t)$$

$$x(t) = g_x(t) * u(t)$$

based on destination

Same building

Find the shortest

→ Arrive

Not same building

Find the shortest path for all parents / kids
every family level: build the tree:

+/-1 family level

Hit the tree bottom

Select top-3

shortest

Suggest 1 (Show other 2)