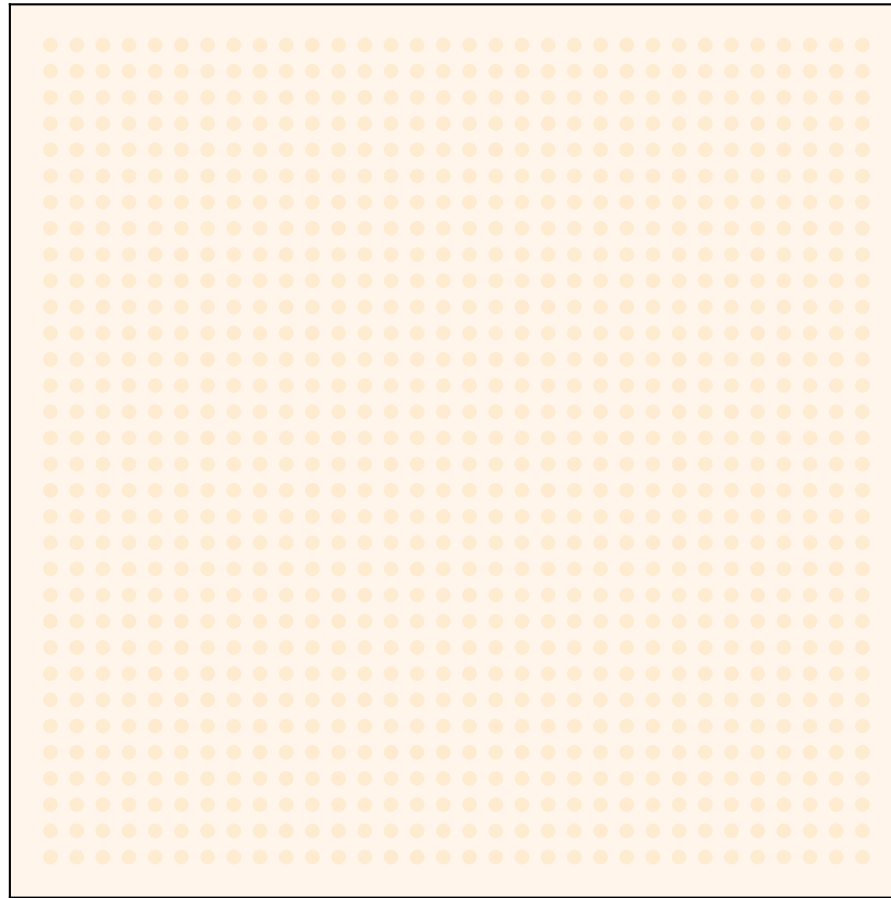


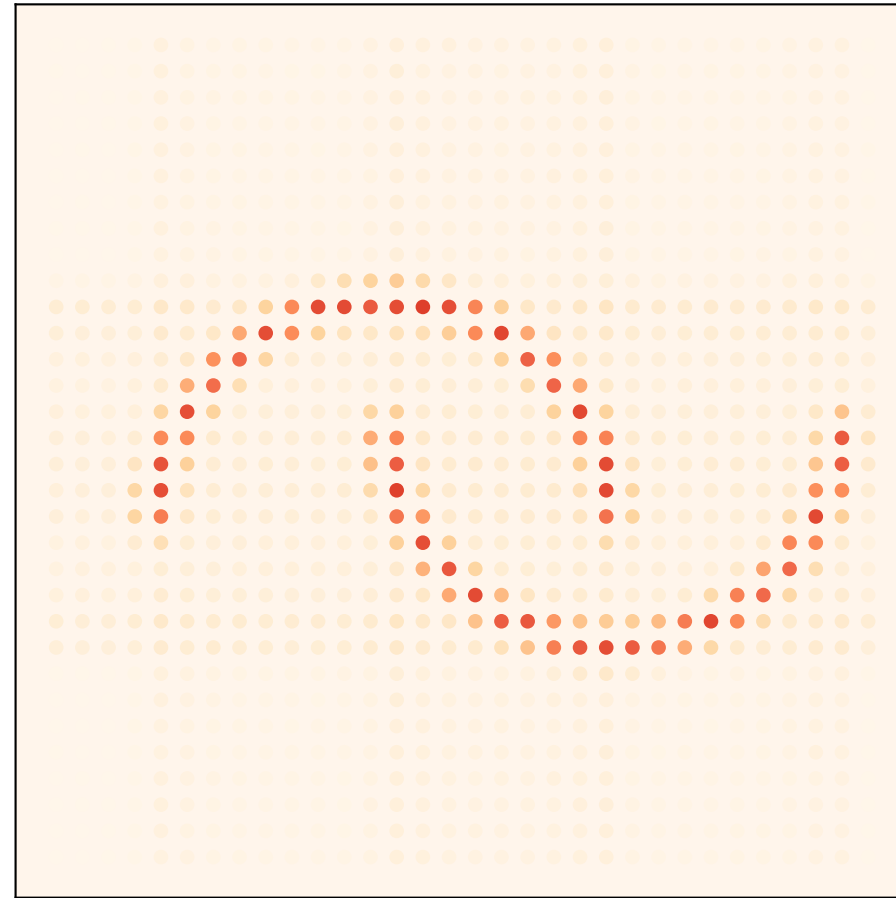
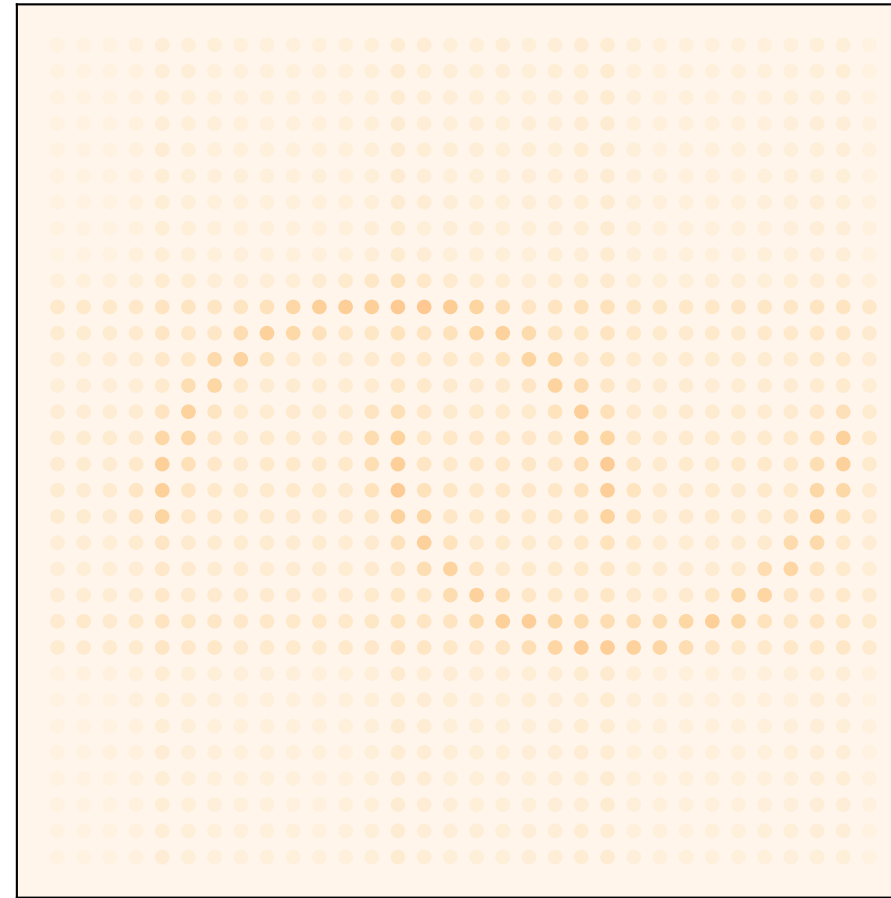
1. Probability path p_t s.t. $p_0 = p$, $p_1 = q$.
2. Find a velocity u_t that generate: $X_t \sim p_t$.
3. Train a model u_t^θ .
4. Sample $X_1 \sim p_1$ using the trained model u_t^θ .

Discrete Flow Matching Recipe

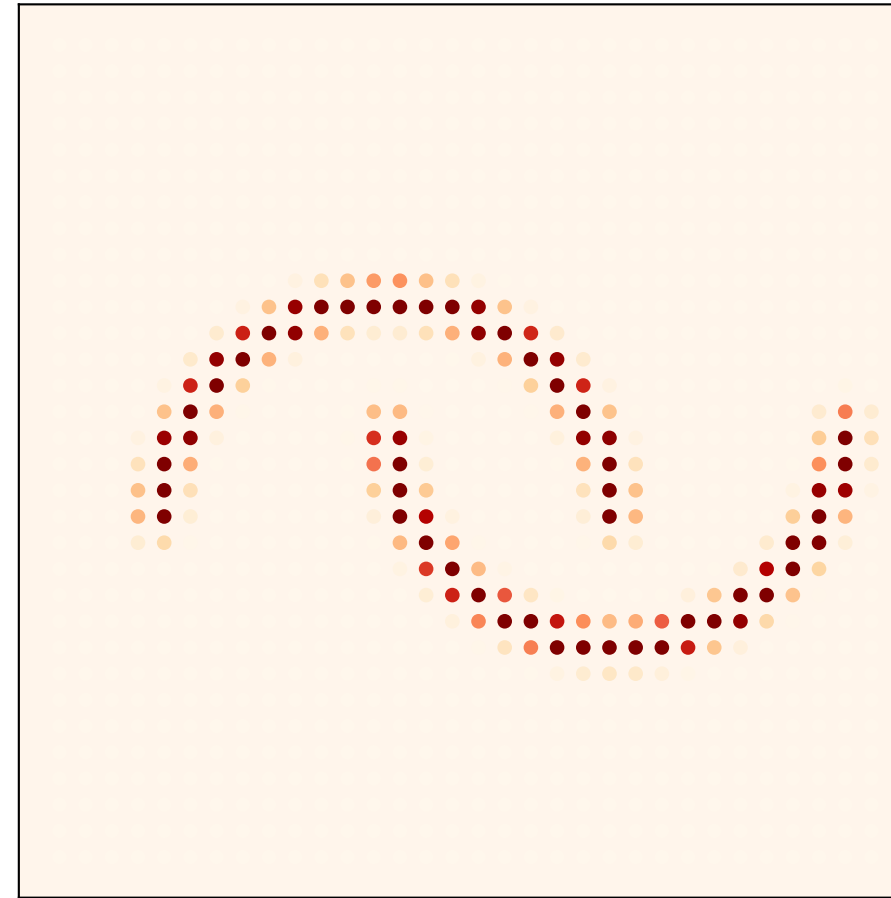




p_0

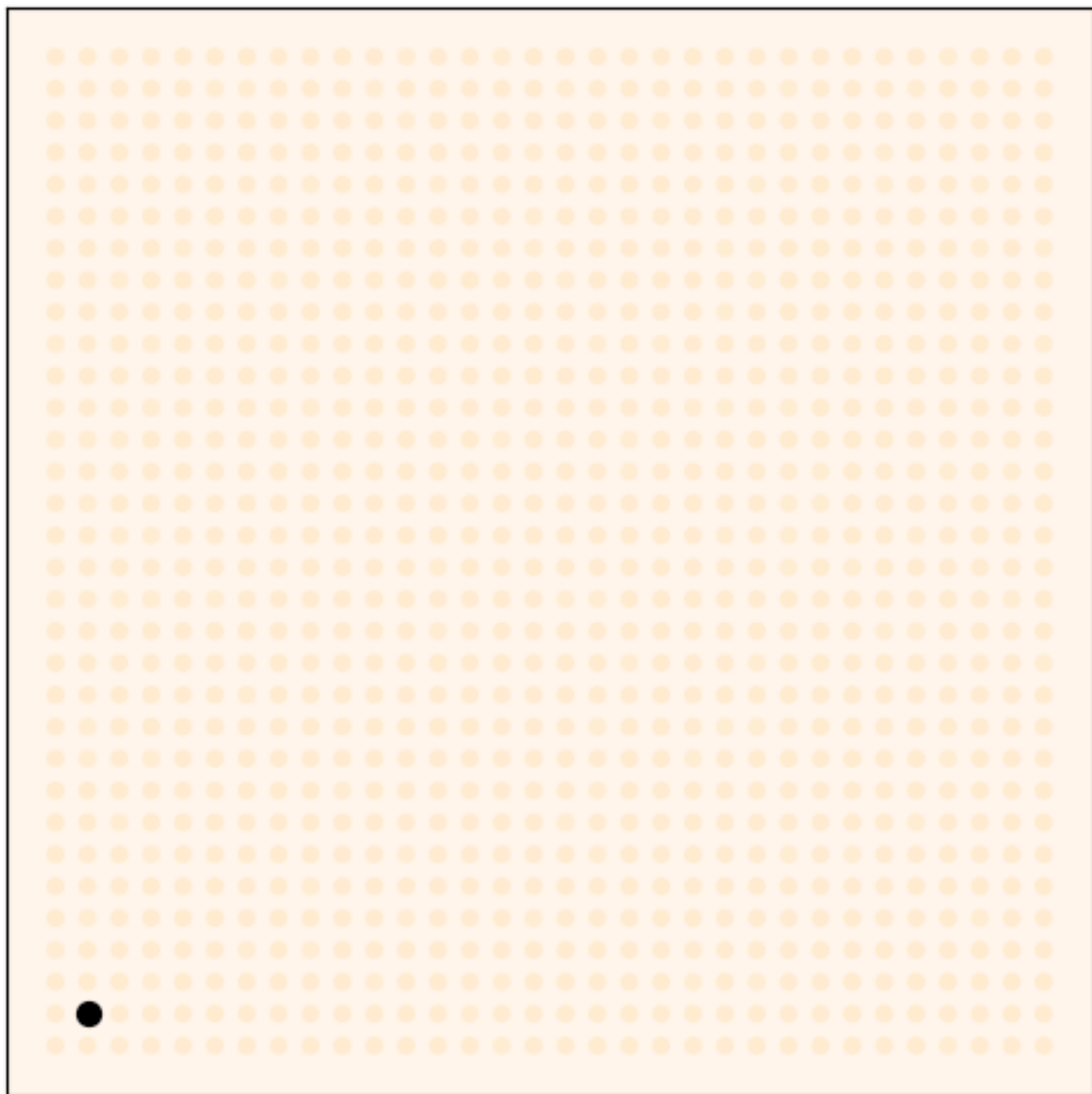


p_t

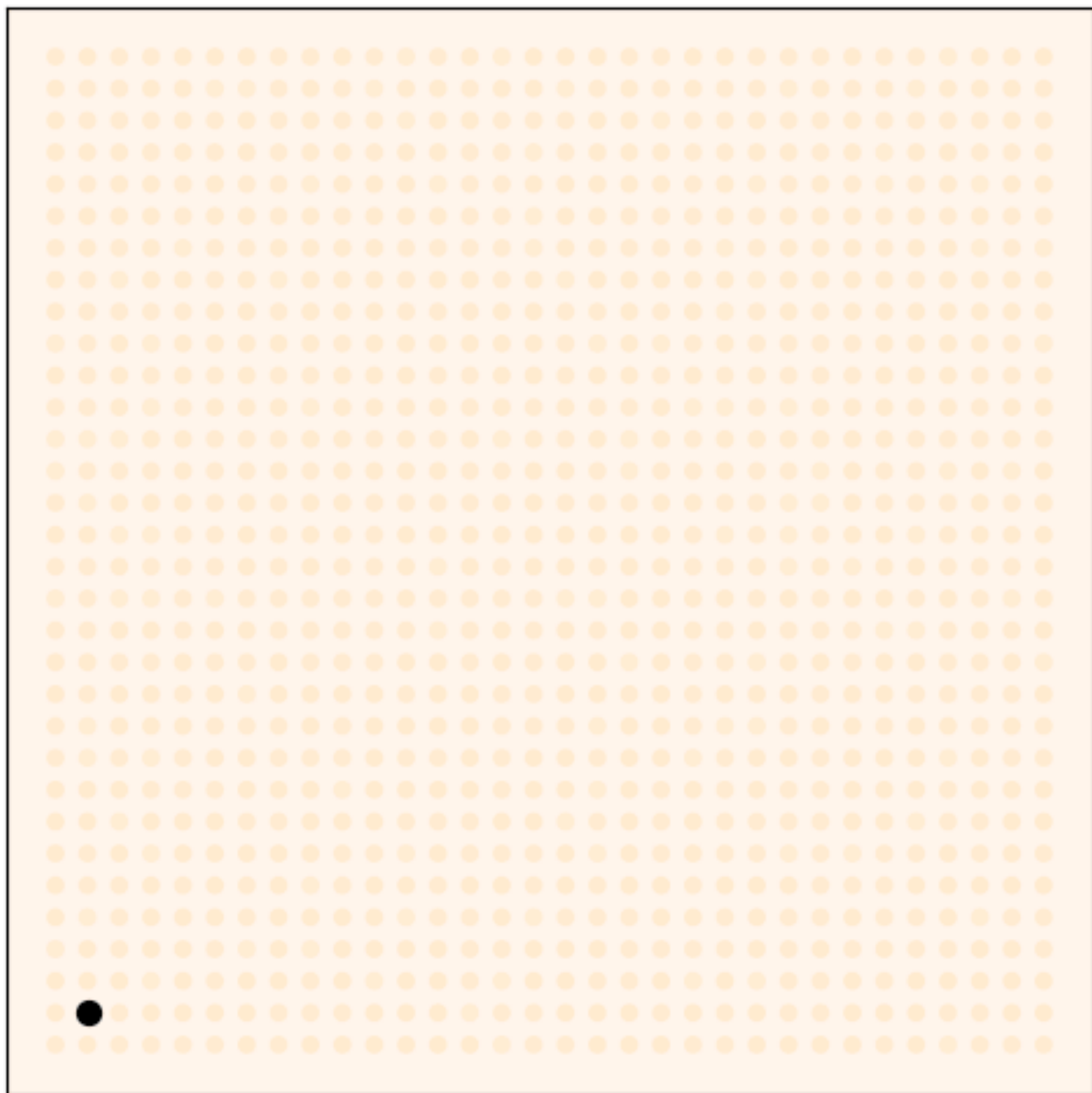


p_1

$t=0.000$



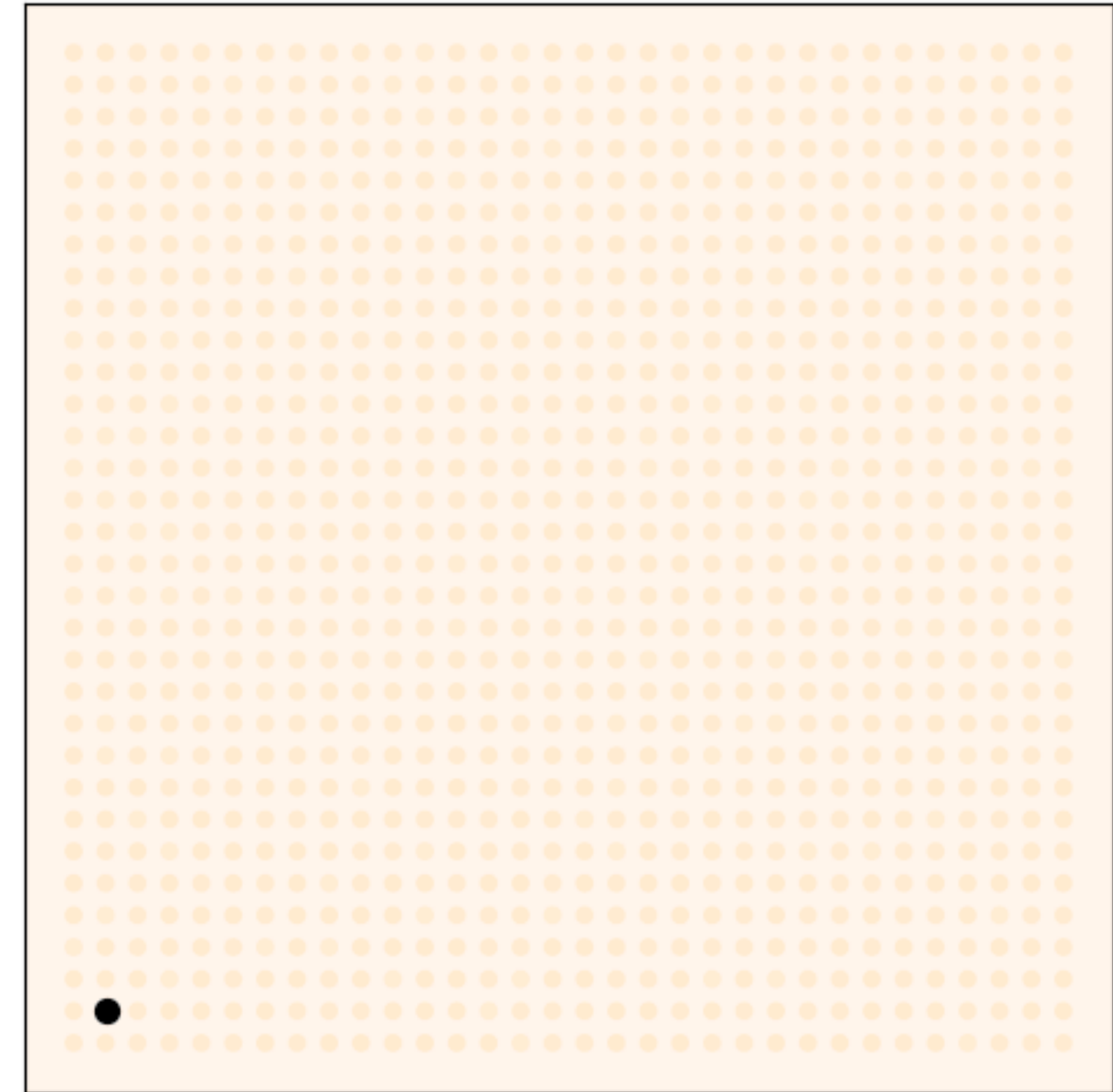
$t=0.000$



Discrete Flow Matching Recipe

t=0.000

1. Probability path p_t s.t. $p_0 = p$, $p_1 = q$.
2. Find a velocity u_t that generate: $X_t \sim p_t$.
3. Train a model u_t^θ .
4. Sample $X_1 \sim p_1$ using the trained model u_t^θ .



Goal

Find kinetic optimal velocities for arbitrary path.