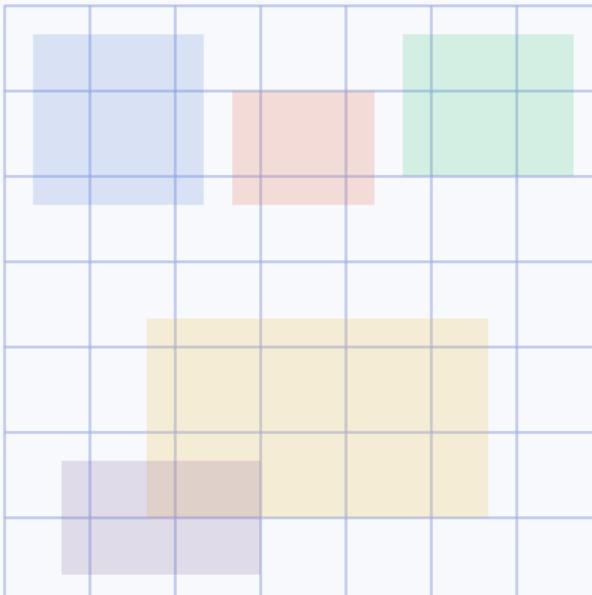


Thermodynamic Reinterpretation of Images

Image as Energy Field



$$I(x,y) \rightarrow p(x,y) = \frac{1}{\epsilon} m_{eff} I(x,y)^2, U = \iint p dx dy, S = - \iint p \log p$$

Conversion Steps

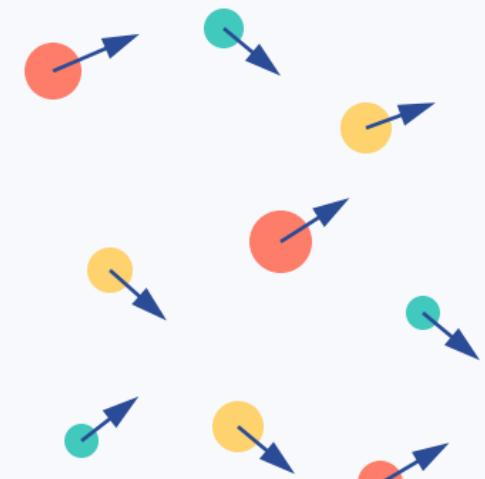
Feature detection
Segments → entities

Assign thermodynamic
properties (m, ϵ, σ)

Map intensity/geometry
to energy U

Initialize positions
and velocities

Information Gas



● Higher energy ● Lower energy/ε