

### 1. Target representation

Bounding quadrilateral  
with affine deformation

### 2. Target motion

Brownian

### 3. Appearance model

PCA: eigenspace

RVQ: centroids

TSVQ: centroids

### 4. Observation model

PCA: DFFS (distance to feature space)

RVQ: 1NN (distance to nearest neighbor, i.e., centroid)

TSVQ: 1NN (same as RVQ)

### 5. State inference

Particle filter