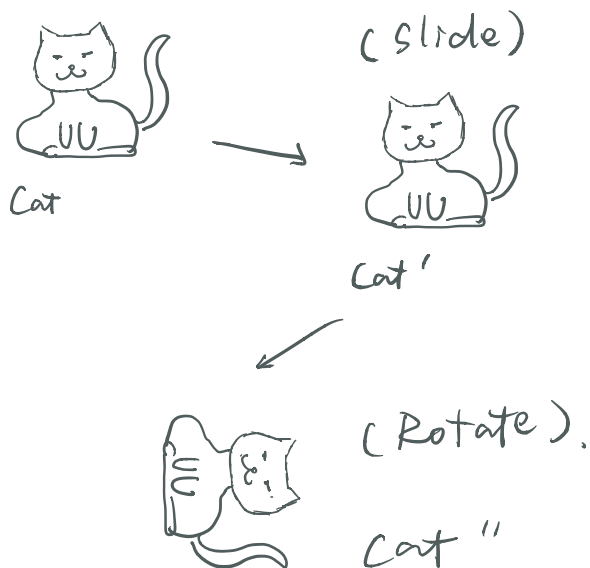# Isometric transformation V.S Non-isometric transformation

Isometric transformation
- preserves distances
- preserves angles
- same size / shape / volume

Non-isometric transformation
- Does not preserve distance
- Does not preserve angles
- Different shape / angle / volume

Example

Cat → (Slide) Cat'

→ (Rotate). Cat''

Example

Cat → Big Cat (Dilation)

→ Long tail Cat (Change shape)

10 years before | 10 years later

180 cm ← No hair

120 cm