# **KANDY Generation Pipeline**

## *i*-th Task Specifics

#### CONFIGURATION

- Superision Options
- Target # Samples
- % Train, % Val, % Test
- Perceptual Variability:
  Color/Size/Both/None

**Textual Description** 

Generation Rules (positive/negative)

Ground Truth Rule (positive)

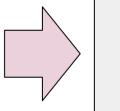
#### YAML

- Properties (shape, color, size)
- Operators
  - Compositional (in, stack, grid, random, ...)
  - Auxiliary
    - Deterministic (sort, mirror, ...)
    - Random (pick, random\_repeat, ...)
    - Memory-based (store, recall, ...)
    - Set-based (union, intersect, ...)



### Sample Generation

- . Generation at Symbolic Level
- 2. Ground Truth Rule-based Rejection
- Image Rendering with Perceptual Variability
- 4. Supervision Generation



Data



Depends on given Background Knowledge (extra file)