Example of Curriculum

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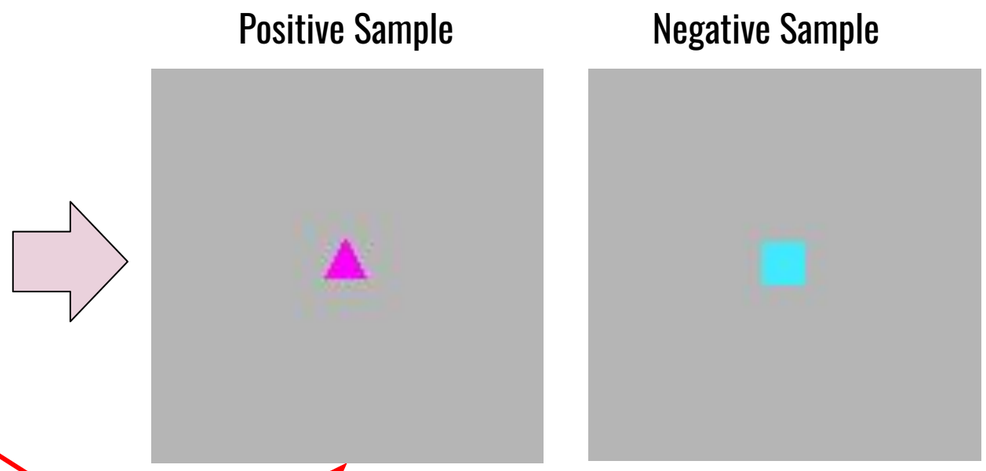
4th Task Specifics

```
gamma: 1.0
beta: 1.0
samples: 100
train_split: 0.5
val_split: 0.25
noisy_color: True
noisy_size: True
```

```
name: the image contains a triangle
```

```
positive_set:
  - quadrant_or_center:
    - {shape: triangle, color: ~, size: ~}
negative_set:
  - quadrant_or_center:
    - {shape: not_triangle, color: ~, size: ~}
```

```
positive_rule: >-
    valid(C) :- contains(C, C1), extract_shape(C1, triangle).
```



...

Positive samples are simply triangles

...

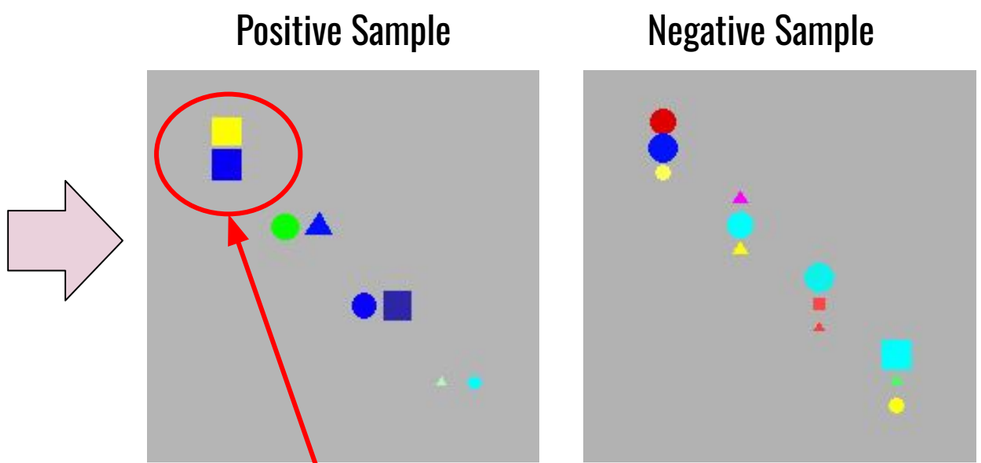
i-th Task Description

```
gamma: 1.0
beta: 1.0
samples: 100
train_split: 0.5
val_split: 0.25
noisy_color: True
noisy_size: True
```

```
name: the image contains a tower-like pattern
```

```
positive_set:
  - any_diag:
    - permute:
      - repeat_before:
        n: 3
        list: &any_kmer
          - any_non_diag:
            - random_repeat_before:
              min: 2
              max: 3
              list:
                - { shape: ~, color: ~, size: ~ }
            - stack: &tower
              - random_repeat_before:
                min: 2
                max: 3
                list:
                  - pick_before
                    n: 1
                    list:
                      - { shape: square, color: ~, size: small }
                      - { shape: square, color: ~, size: large }
negative_set:
  - any_diag:
    - repeat_before:
      n: 4
      list: *any_kmer
```

```
tower(C) :- extract_op_and_chld(C, stack, L), same_shape(square, L),
              same_size(_, L), length(L, N), N >= 2, N =< 3.
positive_rule: >- valid(C) :- contains(C, C1), tower(C1).
```



...

Positive samples are diagonal of elements, one being a "tower" (2-3 stacked squares, same size)

...