A. Curriculum concept learning

Initialized with DSL and executor.

Lesson1: Object-based questions.

Q: What is the <u>shape</u> of the <u>red</u> object?

A: Cube.

Lesson2: Relational questions.

Q: How many <u>cubes</u> are <u>behind</u> the <u>sphere</u>?

A: 3

Lesson3: More complex questions.

Q: Does the red object left of the green cube have the same shape as the purple matte thing?

A: No

Deploy: complex scenes, complex questions

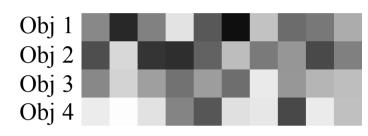
Q: Does the matte thing behind the big sphere have the same color as the cylinder left of the small matte cube? A: No.

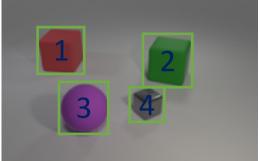
B. Illustrative execution of NS-CL

Q: Does the <u>red</u> object <u>left</u> of the <u>green</u> <u>cube</u> have the same <u>shape</u> as the <u>purple matte</u> thing?



Step1: Visual Parsing





Step2, 3: Semantic Parsing and Program Execution

