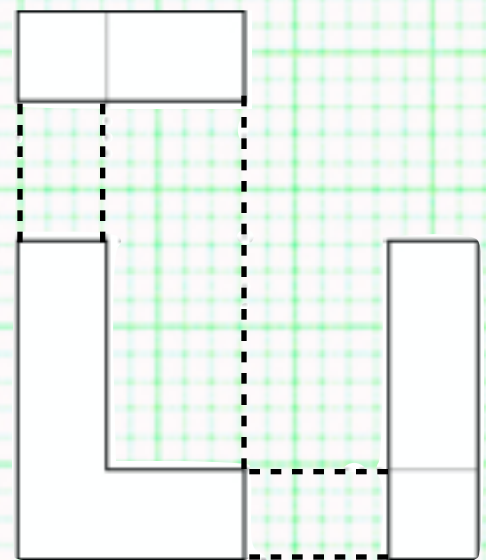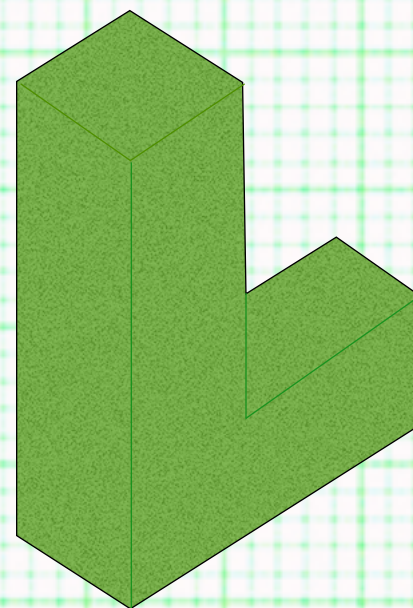# ORTHO PUZZLE

Learn 3D geometry the fun way

WHAT IS IT?

ORTHO PUZZLE is a physical meets digital game for teaching school children orthographic projections. The child learns by making various geometric shapes in the physical world.

WHAT IS THE IDEA?

Visualizing a complex 3D object from just the its orthographic projections is difficult. A better sense of understanding can be developed by constructing and manipulating the object in the physical world.

HOW TO PLAY?

The android app shows two orthographic projections of a 3D object to the player. The player then tries to build the matching object using square blocks and then verifies the same using the app.

HOW DOES IT WORK?

The Android app uses a video camera to capture the built object, then connects to Open CV to detect the square blocks.Some additional logic detects the relationship between the detected objects.