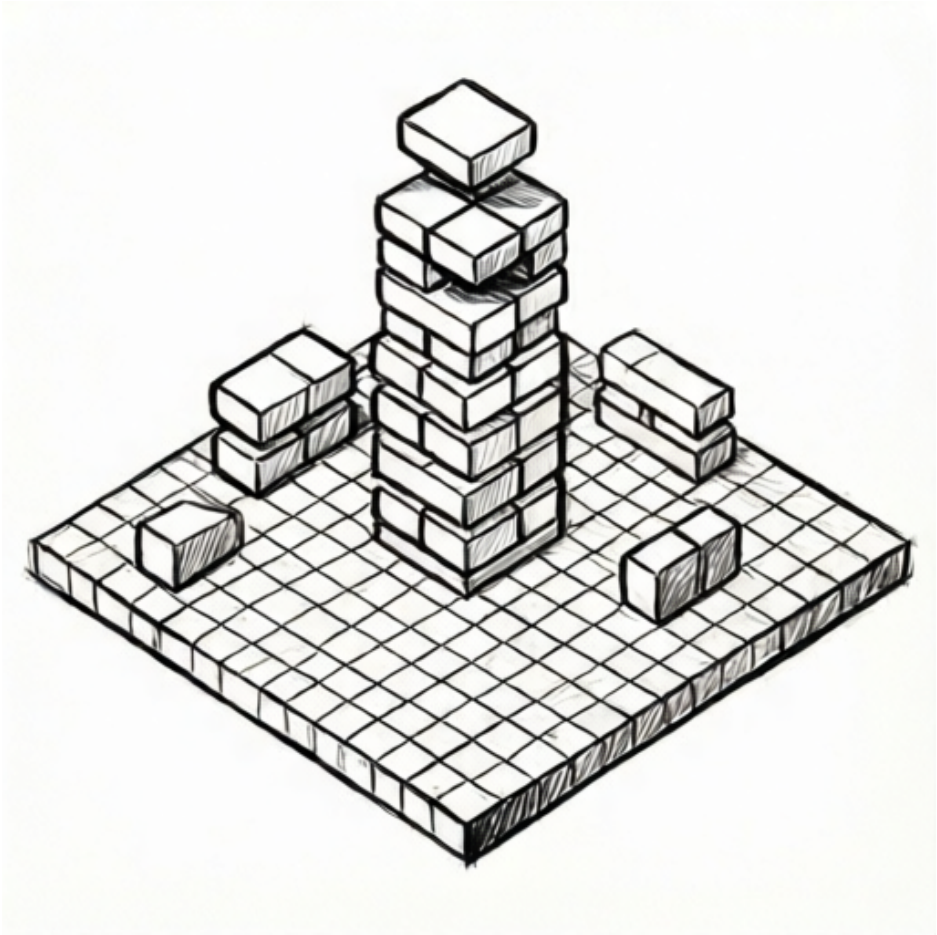
Isometric Stacked Blocks: A Grid-Based Drawing Guide

Ordinary topic reference / separately checked pixels



Isometric Stacked Blocks: A Grid-Based Drawing Guide

Original worked example / unchanged complete key

Prompt: Draw an isometric scene on a ground grid with two aligned blocks stacked vertically. Use a hypothetical unit of 20 mm. State your convention and identify the hidden edges.

Answer: Convention: vertical edges vertical; ground axes at 30 degrees above horizontal; unit 20 mm; hidden edges dashed. Draw the ground grid with 20 mm steps. Mark a ground intersection as the front-bottom corner of the lower block. Draw the lower block's top rhombus with 20 mm edges along both ground axes, drop 20 mm vertical edges, and close the side faces. Start the upper block at the lower block's top-front corner and repeat the construction with 20 mm edges. The two blocks share vertical edges, so the stack is aligned. Hidden edges: the three dashed edges meeting at each block's hidden back-bottom corner. Check: every top face is a rhombus; every side face is a parallelogram with vertical edges; the upper block's front-bottom corner coincides with the lower block's top-front corner.