

Bricks images dataset

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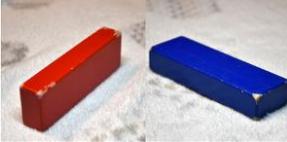
The set contains 200 images of various wooden bricks of various shapes and colors placed on a background (blanket) with some heart shaped patterns. Each photo is available in 300x300 and 224x224 pixels size in PNG format. Photos are divided in 10 classes – 8 types of bricks photographed from various angles + 2 additional classes (multiple bricks at one photo; empty background).

Photos show the following bricks (figure 1):



Figure 1. All bricks presented in images.

Photos are divided in to the following categories:

Category	Bricks no. at fig. 1	Sample images	Brick size
Ball	1		48 mm (diamater)
Cylinder	2, 3, 4		99x19x19 mm
RectangleN (narrow)	5, 6		100x34x19 mm
RectangleW (wide)	7, 8,		100x49x19 mm
Ring	9, 10		19 mm (width) 49 mm (external diameter) 21 mm (internal hole diameter)
Square	11, 12, 13, 14, 15, 16		50x50x19 mm
Triangle1	17, 18		96x47x19
Triangle2 (Isosceles)	19, 20, 21, 22, 23, 24		47x47x19 (yellow, green) 66x66x19 (red)
Multiple			
Empty	25, background, no brick		

Photos registration equipment and processing:

Camera body: Nikon D5600, Lens: AF-S DX Nikkor 18-140mm f/3.5-5.6G ED VR

Image processing:

- registered as high quality .jpg,
- brightness, contrast and slight white balance correction to maintain more or less uniform lighting parameters along the whole dataset,
- photo framing,
- slight sharpening,
- size reduction,
- saved as .png.