

Special Project

 $\mathcal{W} eaving$ 



Prerequisite Concepts	Concept 12
Key Concepts	Concept 15,16, 18
Bricklayer Version	1.2.3 or higher

When implemented in a  $32 \times 32$  virtual space, the following fabric specification creates the LEGO<sup>®</sup> artifact shown in Figure 1.

line1 line2	=	(0,8+delta) (8+delta,31)	(31,8+delta) (8+delta 0 )	BLUE YELLOW	
line3	=	(31.7-delta)	(0.7-delta)	RED	
line4	=	(7-delta.0)	(7-delta.31)	GREEN	
		(* 20000,0)	(* ******,***)	0	
line5	=	(0,8+delta)	(31,8+delta)	BLUE	
line6	=	(24+delta, 31)	(24+delta,0)	YELLOW	
line7	=	(31, 7- delta)	(0,7-delta)	RED	
line8	=	(23-delta,0)	(23-delta, 31)	GREEN	
line9	=	(0,24+delta)	(31,24+delta)	BLUE	
line10	=	(8+delta, 31)	(8+delta,0)	YELLOW	
line11	=	(31, 23-delta)	(0,23-delta)	RED	
line12	=	(7-delta,0)	(7-delta, 31)	GREEN	
line13	=	(0,24+delta)	(31,24+delta)	BLUE	
line14	=	(24 + delta, 31)	(24+delta,0)	YELLOW	
line 15	=	(31, 23-delta)	(0,23-delta)	RED	
line16	=	(23-delta,0)	(23-delta, 31)	GREEN	
fabric = (					
$line_{1_{z+1}}; line_{2_{x+1}}; line_{3_{z-1}}; line_{4_{x-1}};$					
$line5_{z+1}$ ; $line6_{x+1}$ ; $line7_{z-1}$ ; $line8_{x-1}$ ;					
$line9_{z+1}; line10_{x+1}; line11_{z-1}; line12_{x-1};$					
$line13_{z+1}; line14_{x+1}; line15_{z-1}; line16_{x-1};$					
$)_{0}^{4}$					
, <del>,</del> ,					

Note that, when viewed in groups of 4, line groups in the fabric are very similar to one another. This suggests that a parameterized function might be created for drawing a group of lines. Before building this artifact it is recommended that you complete all Vitruvia exercises for Concepts 15, 16, and 18.

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Figure 1: A  $\mathcal{B}ricklayer$  fabric.

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