Special Project
$\mathcal{W}eaving$

Prerequisite Concepts	Concept 12,
Key Concepts	Concept 13, 15, 16, 18
Bricklayer Version	1.2.3 or higher

When implemented in a 128×128 virtual space, the following fabric specification creates the LEGO® artifact shown in Figure 1.

$$
\begin{array}{llll}
ring1 & = & (39 - r) & \text{BLUE} & (63,63) \\
line1 & = & (64 + d, 0) & (64 + d, 127) & \text{YELLOW} \\
line2 & = & (62 - d, 0) & (62 - d, 127) & \text{RED} \\
line3 & = & (0, 64 + d) & (127, 64 + d) & \text{GREEN} \\
line4 & = & (0, 62 - d) & (127, 62 - d) & \text{LAVENDER} \\
\end{array}
$$

$$
fabric = \quad (ring1_{r-1}; line1_{x+1}; line2_{x-1}; line3_{z+1}; line4_{z-1})_0^8
$$

Before building this artifact it is recommended that you complete all Vitruvia exercises for Concepts 13, 15, 16, and 18.
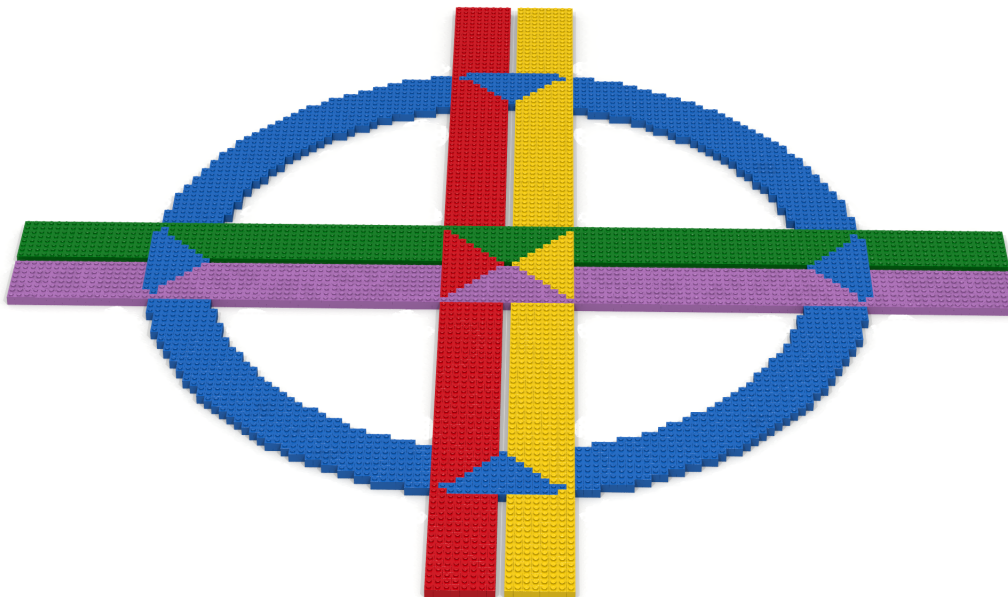

Figure 1: A $\mathcal{B}ricklayer$ fabric.