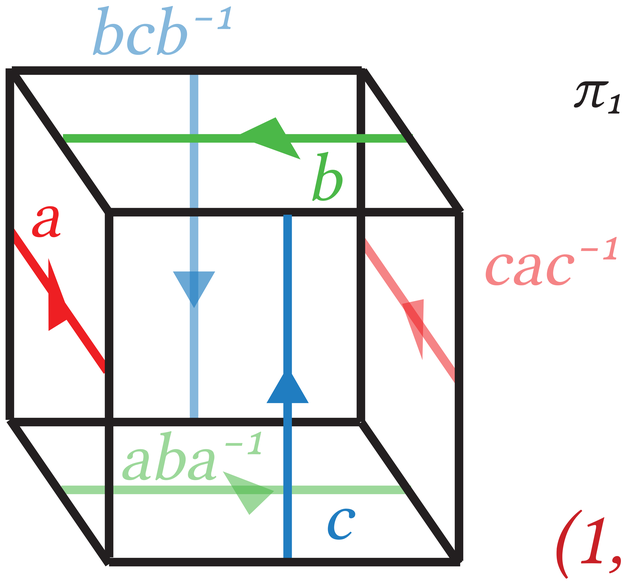
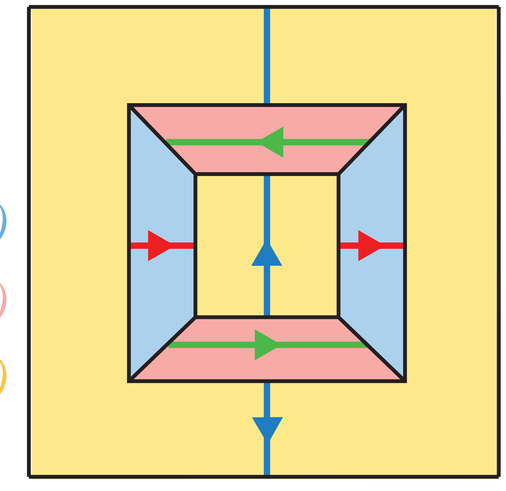


$$\pi_1(S^3\text{-}B)=\left\langle a,b,c \;\middle|\; \begin{matrix} abc^{-1}b^{-1}c=bc^{-1}b^{-1}ca, \\ bca^{-1}c^{-1}a=ca^{-1}c^{-1}ab \end{matrix} \right\rangle \longrightarrow \mathbb{Z}_2^3 \hookrightarrow S_8$$

$a \mapsto (0,0,1) \to (1,5)(2,7)(3,6)(4,8)$

$b \mapsto (1,0,0) \to (1,8)(2,3)(4,5)(6,7)$

$c \mapsto (0,1,0) \to (1,3)(2,8)(4,7)(5,6)$



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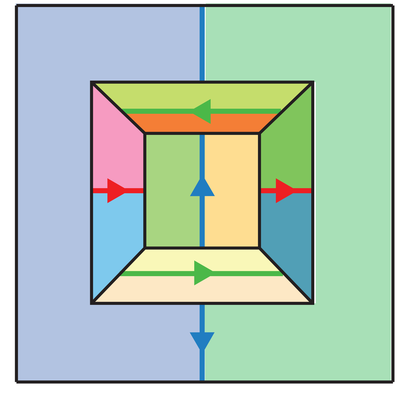

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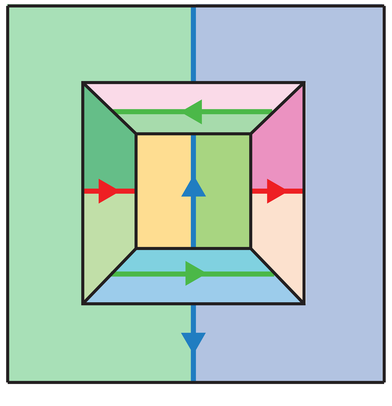

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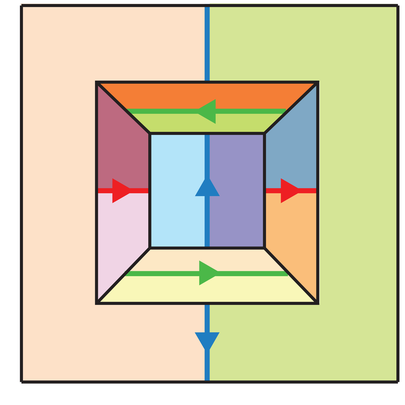

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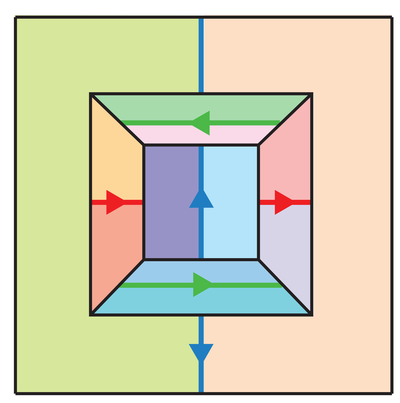

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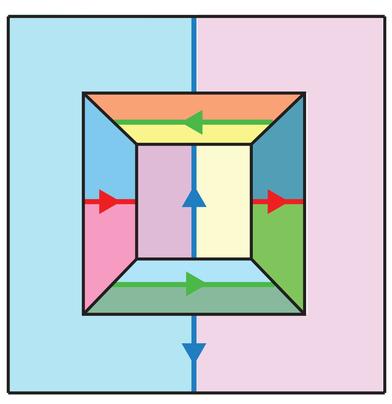

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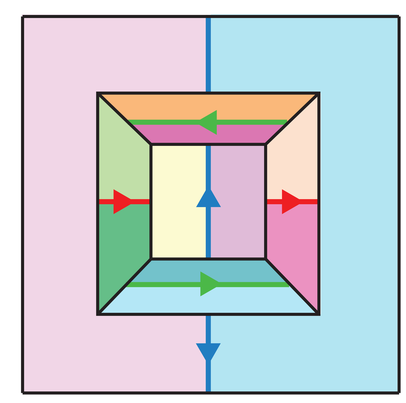

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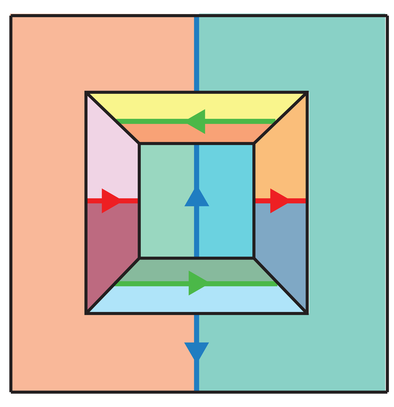
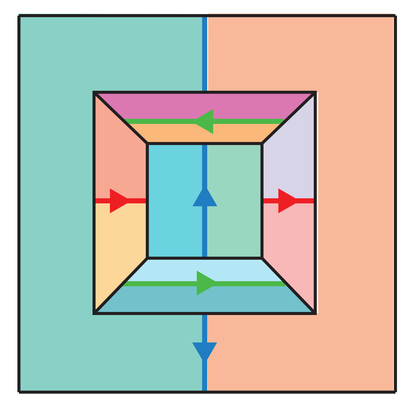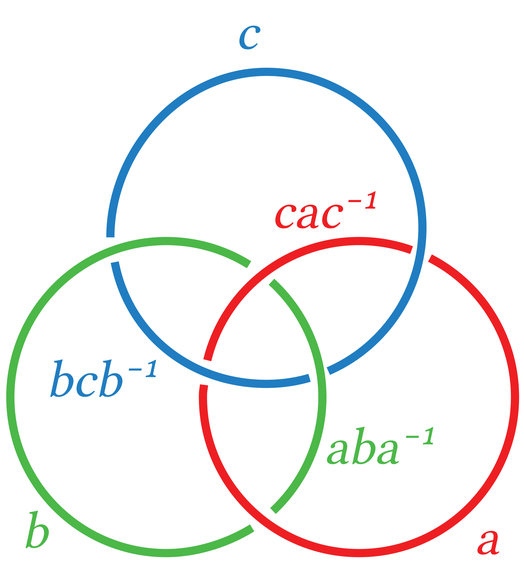
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