

# The annoying parameter \$\$\$

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0726) Boden's  $VG_K$ :  $[s, q] = 1$  and

$$\begin{array}{ccc} w & \nearrow & z \\ & & \searrow \\ y & \nearrow & x \end{array} \rightarrow \begin{array}{l} z = s^{-1}x^{-1}syx \\ w = s^{-1}xs \end{array}$$

$$\begin{array}{ccc} z & \nearrow & w \\ & & \searrow \\ x & \nearrow & y \end{array} \rightarrow \begin{array}{l} z = q^{-1}yq \\ w = qxq^{-1} \end{array}$$

$$\begin{array}{ccc} z & \nearrow & w \\ & & \searrow \\ x & \nearrow & y \end{array} \rightarrow \begin{array}{l} z = xysx^{-1}s^{-1} \\ w = sxs^{-1} \end{array}$$

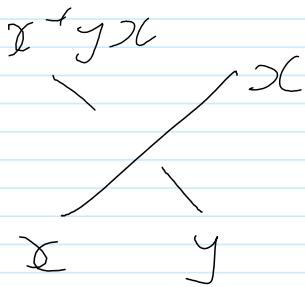
Why exists?

$$y \mapsto xyx^{-1} \rightarrow s^{-1}xyx^{-1}s =$$

$$s(s^{-1}xyx^{-1}s)x^{-1}s^{-1}$$

$$z = xyx^{-1}s^{-1} =$$

$$yx = xyx$$



$$x = x's^{-1} \quad y = y's$$

