



Ex from Algebra I:

G group, kG group algebra is the k -algebroid of G considered as cat with one obj.

$$\begin{array}{ccc}
 \text{Reps}(G, k\text{-vec}) & \simeq & \text{Reps}(kG, k\text{-vec}) \\
 \uparrow & & \\
 & \text{haben wir in Alg I oft benutzt.} &
 \end{array}$$

$$G \cong \langle \underbrace{X}_{\text{quiver}} \mid \underbrace{R}_{\text{quiver relations}} \rangle$$

$$\begin{array}{ccccc}
 \langle R \rangle & \xhookrightarrow{\quad} & F_X = \langle X \rangle & \twoheadrightarrow & G \\
 \downarrow \cong & & \downarrow \text{informedichte} & & \downarrow \text{canonisch} \\
 & & k\text{-algebroid} & & \\
 G & \cong & \langle X \rangle / \langle R \rangle & &
 \end{array}$$