







PRIMITIVE

(K, v)



TypeConverter

BYTE ARRAY

$(K[], v[])$



Engine

DERIVED

(K', v')



$$\begin{array}{c} K \\ v \end{array} \begin{array}{c} \xrightarrow{\text{green}} \\ \xrightarrow{\text{blue}} \end{array} \begin{bmatrix} K \\ v \end{bmatrix} \xrightarrow{\text{orange}} \frac{d}{dv} \begin{bmatrix} K \\ v \end{bmatrix}$$

$$\begin{array}{c} K \\ v \end{array} \begin{array}{c} \xleftarrow{\text{green}} \\ \xleftarrow{\text{blue}} \end{array} \begin{bmatrix} K \\ v \end{bmatrix} \xleftarrow{\text{orange}} \int (K', v')$$

$\begin{array}{c} \downarrow \text{orange} \\ \uparrow \text{orange} \end{array}$