

fold

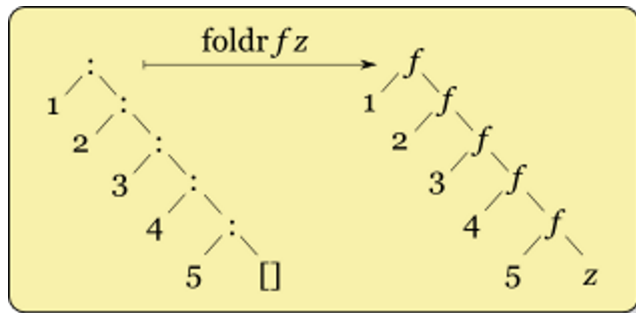
2021. december 7., kedd 20:21

foldr

$\text{foldr} :: \text{Foldable } t \Rightarrow (a \rightarrow b \rightarrow b) \rightarrow b \rightarrow t \rightarrow b$

$\text{foldr } f\ z\ [1,2,3,4,5] \equiv 1\ f\ 2\ f\ 3\ f\ 4\ f\ 5\ f\ z$

$\equiv (1\ f\ (2\ f\ (3\ f\ (4\ f\ (5\ f\ z))))))$



$\text{foldr} :: \text{Foldable } t \Rightarrow (a \rightarrow b \rightarrow b) \rightarrow b \rightarrow t \rightarrow b$

Használat:

$\text{foldr } (\backslash \text{elem } \text{acc} \rightarrow \langle \text{eredmeny} \rangle) \text{ startAcc } \text{lista}$

Példa:

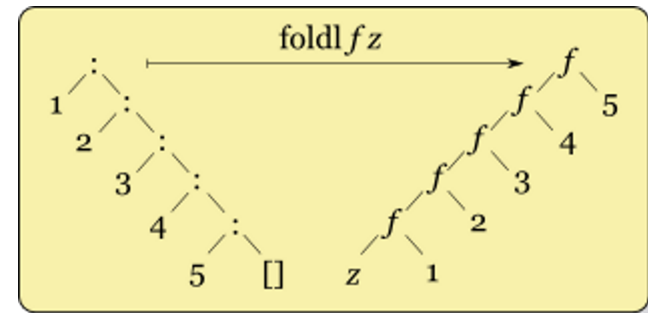
$\text{foldr } (\backslash \text{elem } \text{acc} \rightarrow \text{concat } [("(" , \text{elem} , "+" , \text{acc} , ")")])\ "0"\ (\text{map show } [1..13])$

foldl

$\text{foldl} :: \text{Foldable } t \Rightarrow (b \rightarrow a \rightarrow b) \rightarrow b \rightarrow t \rightarrow a$

$\text{foldl } f\ z\ [1,2,3,4,5] \equiv z\ f\ 1\ f\ 2\ f\ 3\ f\ 4\ f\ 5$

$\equiv ((((((z\ f\ 1)\ f\ 2)\ f\ 3)\ f\ 4)\ f\ 5))$



$\text{foldl} :: \text{Foldable } t \Rightarrow (b \rightarrow a \rightarrow b) \rightarrow b \rightarrow t \rightarrow a$

Használat:

$\text{foldl } (\backslash \text{acc } \text{elem} \rightarrow \langle \text{eredmeny} \rangle) \text{ startAcc } \text{lista}$

Példa:

$\text{foldl } (\backslash \text{acc } \text{elem} \rightarrow \text{concat } [("(" , \text{acc} , "+" , \text{elem} , ")")])\ "0"\ (\text{map show } [1..13])$