

Combinatori

Mattia Martelli

Forma di Backus-Naur

$$T ::= V \mid \lambda V. T \mid (T T)$$

λ calcolo

$$\begin{aligned} I &:= \lambda x. x \\ K &:= \lambda x. \lambda y. x \\ S &:= \lambda x y z. x z (y z) \\ B &:= \lambda x y z. x (y z) \\ C &:= \lambda x y z. x z y \\ W &:= \lambda x y. x y y \\ \omega &:= \lambda x. x x \\ \Omega &:= (\lambda x. x x) (\lambda x. x x) \\ Y &:= \lambda f. (\lambda x. f (x x)) (\lambda x. f (x x)) \\ \Theta &:= (\lambda x y. y (x x y)) (\lambda x y. y (x x y)) \end{aligned}$$

SKI caclolo

$$\begin{aligned} I &:= S K K \\ Y &:= S (K (S I I)) (S (S (K S) K) (K (S I I))) \end{aligned}$$