

Property concept roots and the semantics of categorization

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Intro rop rt on pts Cs Dxon d pson xpr s s ons suc as t or pp t at ar canon ca y cat or z as a ct v s n En s ar o t n cat or z as nouns or v rbs n ot r an ua s t s typ o var at on s w nown, w a r s s n t s ta t s s stu qu st on o w t r t x ca s i ant es o prop rty conc pts s syst at ca y t to ow t y ar cat or z For xa p r Franc z Koontz Garbo n

FKG s ow t at sd C nouns o not c aract r z n v ua s as a ct v s o , but rat r not pr cat s o abstract qua t s oo n ss, a s t o port ons o oo n ss n t i ass d a n M non anc va M bu on t s an con ctur t at t roots ok n all prop rty conc pt wor s, n p n nt o cat ory, av FKG s i ass s i ant es, t ou var at on n t i orp os i ant es o cat or zat on pot nt a y i as s t s un r y n un v rsa ty

Claim ar u or M s cor a t at C roots ar i ass not n , raw n on ata rd nd na v rba an a ct va cat or zat on n t r un r at an ua s s ow t at, s p t var at on n cat ory, Cs n t s an ua s r c v a un t an aly s s i ass not n C roots i ust b cat or z by a a nco n a poss s v s i ant es to ok pr cat s

Background M su st t at, un v rsa y, Cs ar bu on acat or a roots t at i ust b cat or z by a a ntro uc n a poss s v s i ant es n or r to cr at a pr cat o n v ua s r an aly s s bas on Ma aya Drav an, w c ac s an a ct va cat ory, w t i any C wor s nst a b n v rbs M ar u, bu n on FKG, t at Ma aya n t s cas i a s us o a covert cat or z n v a t at nco s poss s on n or r to turn a

a) ava-[nalla]-va aano i ass not n root i nall nto a s i [having goodness]-F G E C prop rty o n v ua s n av n oo n ss r su t n v rbs t n s oo on av n oo n ss conv nt on a y turn nto a r uc r at v n pr cat construct ons, as s own n b ort xa p n a

b) [[[√nall] ∅_{v.poss}]_v]]_v a]_r

Proposal t poss s v cat or z r M propos s cov r t, w ar u t at s v ra un r at an ua s xpr s s t s typ o cat or z r overtly s typ o poss s v cat or zat on s i or v r not t to v rba zat on w n v nc across an ua s or ov r t poss s s v cat or zat on r su t n n nouns, v rbs, as w as a ct v s D s p t t s var at on n cat ory ow v r, w propos t at a un t s i ant c tr at nt o t cat or z r can captu r t u ran o pr s nt ata p c t ca y w ar u t at t cat or z r s ar s t o ow n prop r t s across an ua an cat ory t ntro uc s a poss s v s i ant es as n an t cat or z s t root as n In a cas s, w tr at t root b n cat or z as not n a s t o stat s, o ow n ar sons Ba n i an w oo i In t s way,

$$V_{\text{poss}} n_{\text{poss}} a_{\text{poss}} \lambda P_{\langle e,t \rangle} \lambda x_e \exists y [P y \text{ have } x, y]$$

$$[v \ n \ a \ [\sqrt{C}]] [V_{\text{poss}} \ n_{\text{poss}} \ a_{\text{poss}}]$$

r turn n a c aract r st c unct on o n v ua s poss s n t at stat now i onstrat t s n i or ta w t nd na v rba an a ct va cat or z r s n wa as o, an En s

Nominalization FKG ar u t at t C cat or z r n wa M su u pan s a nd na z r n t ok o t poss s v su t x Cruc a y t s su t x s us n bot nd na poss s on an prop rty conc pt pr cat on i A opt n t pr s nt an aly s s o r s t r vat on o t i an n av ta n ss

A b r to pan -ka i A as [yu -ka] atran
 A b r to st c -3.POSS s i A b 3.POSS w b
 A b r to s st c w b ta av ta n ss

$$a_n \sim \lambda P$$