

PHRASE STRUCTURE
GRAMMAR

L. Mearns

De grammatika bestaat uit F, M, P en V-regels.
P-regels dienen, zo mogelijk, direct toegepast te worden.

F-regels vervangen een enkel woord.

M-regels vervangen een woord, beïnvloed door de affixen.

P-regels vervangen een affix. (let op het sterretje*)

V-regels vervangen een woord door een keuze uit een vocabularium.

Het " $\wedge$ " teken verbindt verschillende woorden;

het "+" teken bindt de affixen aan het hoofdwoord;

het "/" teken scheidt alternatieve vervangingen.

De ~~cijfers~~^{getallen} voor de vervangende delen geven (cumulatief) de kans op vervanging door juist dit deel aan; zo wil,

$A \rightarrow (20) X / (35) Y / (36) Z / (77) A^{\wedge} X / (100) Y^{\wedge} B$

zeggen, dat de kans op vervanging van A door

X, Y, Z, $A^{\wedge} X$ of $Y^{\wedge} B$ respectievelijk

20%, 15%, 1%, 41% of 23% bedraagt.

De begintoestand (Σ -regel) is SENT

De cijfers in de vervangende delen geven aan dat de zoveelste affix van het te vervangen woord overgenomen wordt.

F

AVPH $\rightarrow$ (36) VERB + NONM* + 1 + 2 /

(54) VERB + WONM* + 1 + 2 ^ TOPH /

(71) VERB + NOWM* + 1 + 2 ^ MVPH /

(80) VERB + WOWM* + 1 + 2 ^ TOPH ^ MVPH /

(100) VERB + TOBE + 1 + 2 ^ NDVG + 2

MVPH $\rightarrow$ (100) to ^ TOPH

NDVG $\rightarrow$ (50) ADJE /

(100) NPOV + 1

NOUN $\rightarrow$ (40) ADJE ^ NOUN + 1 + 2 /

(100) SUBS + 1 + 2

NPPL $\rightarrow$ (40) NOUN + 1 + PLUR /

(100) the ^ NOUN + 1 + PLUR

NPSI $\rightarrow$ (40) a ^ NOUN + 1 + SING /

(100) the ^ NOUN + 1 + SING

OBPH $\rightarrow$ (60) OBJE + 1 /

(100) OBJE + 1 ^ REBY + 1 + 2

PHRS $\rightarrow$ (100) SUPH+1+2 $\wedge$ VBPH+~~TOPH~~TENS*+2

PVPH $\rightarrow$ (48) VERB+TOBE+1+2 $\wedge$ TRAV+PAPL/

(67) VERB+TOBE+1+2 $\wedge$ METV+PAPL/

(100) VERB+TOBE+1+2 $\wedge$ METV+PAPL $\wedge$ MVPH

REBY $\rightarrow$ (50) RELS+1 $\wedge$ VBPH+TENS*+2/

(57) RELO+1 $\wedge$ TNOP+FPFS+FPES/

(64) RELO+1 $\wedge$ TNOP+TPPS+TPES/

(72) RELO+1 $\wedge$ TNOP+TPIS+TPES/

(93) RELO+1 $\wedge$ TNOP+OPPX+OPER/

(100) RELO+1 $\wedge$ TNOP+TPIP+OPER

SENT $\rightarrow$ (14) PHRS+FPFS+FPES/

(29) PHRS+TPPS+TPES/

(43) PHRS+TPIS+TPES/

(86) PHRS+OPPX+OPER/

(100) PHRS+TPIP+OPER

SUPH $\rightarrow$ (60) SUBJ+1/

(100) SUBJ+1 $\wedge$ REBY+1+2

~~TOPH~~ ~~TOPH~~

Zie voor TOPH en TNOP achter VWAF

VBPH $\rightarrow$ (70) AVPH + 1 + 2 /
 (100) PVPH + 1 + 2

~~VWAV~~ $\rightarrow$ (12) 1 + 2 + 3 /
 VWAV (25) TOBE + 2 + 3 $\sim$ 1 + PRPL /
 (37) HAVE + 2 + 3 $\sim$ 1 + PAPL /
 (50) HAVE + 2 + 3 $\sim$ TOBE + PAPL $\sim$ 1 + PRPL /
 (62) AUXV + 2 + 3 $\sim$ 1 + INFI /
 (75) AUXV + 2 + 3 $\sim$ TOBE + INFI $\sim$ 1 + PRPL /
 (87) AUXV + 2 + 3 $\sim$ HAVE + INFI $\sim$ 1 + PAPL /
 (100) AUXV + 2 + 3 $\sim$ HAVE + INFI + TOBE + PAPL $\sim$ 1 + PRPL

W
 TNOP $\rightarrow$ (60) SUPH + 1 + 2 $\sim$ VERB + WONM* + TENS* + 2 /
 (100) SUPH + 1 + 2 $\sim$ VERB + WOWM* + TENS* + 2 $\sim$ MUPH

V
 TOPH $\rightarrow$ (14) OBPH + FPPS + FPES /
 (29) OBPH + TPPS + TPES /
 (43) OBPH + TPIS + TPES /
 (86) OBPH + OPPX + OPER /
 (100) OBPH + TPIP + OPER

VERB $\rightarrow$ (20) ADVB $\sim$ VWAV ~~1~~ + 2 + 3 /
 (100) VWAV + 1 + 2 + 3

PRPL $\rightarrow^{(100)} 1 + 0$

PAPL $\rightarrow^{(100)} 1 + 0$

INFI $\rightarrow^{(100)} 1 + 0$

M

AUXV + PRST $\rightarrow$ (100) TAUX + 2

+ PAST $\rightarrow$ (100) VAUX + 2

HAVE + PRST $\rightarrow$ (100) PRHV + 2

+ PAST $\rightarrow$ (100) PAHV + 2

+ INFI $\rightarrow$ (100) have

INTV + PRST $\rightarrow$ (100) TINT + 2

+ PAST $\rightarrow$ (100) VINT ~~100~~

+ INFI $\rightarrow$ (100) IINT

+ PRPL $\rightarrow$ (100) XINT

+ PAPL $\rightarrow$ (100) YINT

MEIV + PRST $\rightarrow$ (100) TMEI + 2
+ F
+ PAST $\rightarrow$ (100) VMEI ~~100~~
+ INFI $\rightarrow$ (100) IMEI
+ PRPL $\rightarrow$ (100) XMEI
+ PAPL $\rightarrow$ (100) YMEI

METV + PRST $\rightarrow$ (100) TMET + 2
+ PAST $\rightarrow$ (100) VMET ~~100~~
+ INFI $\rightarrow$ (100) IMET
+ PRPL $\rightarrow$ (100) XMET
+ PAPL $\rightarrow$ (100) YMET

NPOV
 ┆
 + FPES → (30) SUPH + FPPS + FPES /
 (65) SUPH + TPPS + TPES /
 (100) SUPH + TPIS + TPES

 + TPES → (50) SUPH + TPPS + TPES /
 (100) SUPH + TPIS + TPES

 + OPER → (50) SUPH + OPPX + OPER /
 (100) SUPH + TPIP + OPER

OBJE
 ┆
 + FPPS → (100) me
 (~~150 David Livingstone~~)
 + TPPS → (20) him / (30) ~~her~~ / (100) NPSI + PERS
 + TPIS → (30) it / (100) NPSI + IMPR
 + OPPX → (15) us / (30) you / (45) them /
 (100) NPPL + PERS
 + TPIP → (30) them / (100) NPPL + IMPR

PAGE + FPES → (100) was
+ TPES → (100) was
+ OPER → (100) were

PAHV + FPES → (100) had
+ TPES → (100) had
+ OPER → (100) had

PRBE + FPES → (100) am
+ TPES → (100) is
+ OPER → (100) are

PRHV + FPES → (100) have

+ TPES → (100) has

+ OPER → (100) have

RELO + FPPS → (100) whom

+ TPPS → (100) whom

+ TPIS → (60) that / (100) which

+ OPPX → (100) ~~that~~ whom

+ TPIP → (60) that / (100) which

RELS + FPPS → (100) who

+ TPPS → (100) who

+ TPIS → (60) that / (100) which

+ OPPX → (100) ~~who~~

+ TPIP → (60) that / (100) which

SUBJ + FPPS → (100) 4

David living, lose
/50 ~~away~~

+ TPPS → (20) he / (30) she ✓ (100) NPSI + PERS

+ TPIS → (30) it / (100) NPSI + IMPR

+ OPPX → (15) we / (30) you / (45) they /
(100) NPPL + PERS

+ TPIP → (30) they / (100) NPPL + IMPR

~~SUBS + PERS → (100) SUPR + 2~~

~~+ IMPR → (100) SUIM + 2~~

~~SUIM + SING → (100) ~~IMSI~~~~

~~+ PLUR → (100) IMPL~~

~~SUPR + SING → (100) PRSI~~

~~+ PLUR → (100) PRPL~~

SUBS + SING $\rightarrow$ (100) SUSI + 2

┆
+ PLUR $\rightarrow$ (100) SUPL + 2

SUSI + PERS $\rightarrow$ (100) SI PR

┆
+ IMPR $\rightarrow$ (100) SIIM

SUPL + PERS $\rightarrow$ (100) PL PR

┆
+ IMPR $\rightarrow$ (100) PLIM

TINT + FPES $\rightarrow$ (100) IINT

+ TPES $\rightarrow$ (100) QINT

+ OPER $\rightarrow$ (100) IINT

TMEI + FPES $\rightarrow$ (100) IMEI

+ TPES $\rightarrow$ (100) QMEI

+ OPER $\rightarrow$ (100) IMEI

TMET + FPES $\rightarrow$ (100) IMET

+ TPES $\rightarrow$ (100) QMET

+ OPER $\rightarrow$ (100) IMET

TOBE + PRST → (100) PRBE + 2

~~PCP~~

+ PAST → (100) PABE + 2

+ INFI → (100) be

+ PRPL → (100) being

+ PAFL → (100) been

TTRA + FPES → (100) ITRA

+ TPES → (100) QTRA

+ OPER → (100) ITRA

#TRAV + PRST → (100) TTRA + 2

+ PAST → (100) VTRA

+ INFI → (100) ITRA

+ PRPL → (100) XTRA

+ PAFL → (100) YTRA

P NONM $\rightarrow$ (56) INTV / (75) TRAV /
(94) MEIV / (100) METV

NOWM $\rightarrow$ (77) MEIV / (100) METV

WONM $\rightarrow$ (72) TRAV / (100) METV

WOWM $\rightarrow$ (100) METV

TENS $\rightarrow$ (50) PRST / (100) PAST