Sketch Grammar for English, Penn Treebank tagset (TreeTagger version) # ver. 3.1 # # Changelog # - Bugfix: changed PRP to PP. [13 October 2008, Jan Pomikalek] # - Modified to allow "my" "you" etc (tag=PP$) in NPS. Looks like a typo (with # PRP$ not PP$) in previous version. [6 May 2008, Adam Kilgarriff] # - Modified so that definitions don't use lempos which is not always # available. [Jan Pomikalek] # - Modified to TreeTagger tagset. [Niels Ott] # - fixed reflexive,passive,it+ relations, should be unary [24 March 2011 Diana McCarthy] # - Modified so modifier/modified is more general (not distinguishing noun-modifiers and adj-modifiers for nouns, # and covering adverbs too [27 July 2011 Adam Kilgarriff] # - Both TRINARY dualized per Adam's request # TODO: allow DUAL TRINARY in Manatee and use it here then [15 December 2012 Milos Jakubicek] # - TRINARY dualized using DUAL (requires Manatee 2.74) [18 February 2013 Milos Jakubicek] # - allow proper nouns in sketches ("NN.?.?" -> "N.*") [22 Feb 2013 Vojtech Kovar] # - human-readable gramrel names [26 Nov 2015 Jan Michelfeit] # - macros and joined possessives [29 Feb 2016 Jan Michelfeit]

divert(-1)

define(`NOUN',`"N.*[^Z]"')

define(`ADJECTIVE',`"JJ.*"')

define(`VERB',`"V.*"')

define(`VERB_BE',`"VB.*"')

define(`VERB_HAVE',`"VH.*"')

define(`ADVERB',`"RB.*"')

define(`NOT_NOUN',`[tag!="N.*"]')

define(`DETERMINER', `[tag="DT"|tag="PPZ"]')

define(`MODIFIER', `[tag="JJ.*"|tag="RB.*"|word=","]')

define(`WHO_WHICH_THAT', `[tag="WP"|tag="IN/that"]')

divert

*STRUCTLIMIT s

*DEFAULTATTR tag

*FIXORDER ;modifiers of "%w";nouns and verbs modified by "%w";objects of "%w";verbs with "%w" as object;subjects of "%w";verbs with "%w" as subject;"%w" and/or ...;prepositional phrases;adjective predicates of "%w";subjects of "be "%w"";"%w" is a ...;instances of "%w";particles after "%w";particles after "%w" with object;objects of "%w %(3.lemma)";verbs with particle "%(3.lemma)" and "%w" as object;pronominal objects of "%w";pronominal subjects of "%w";%w's ...;possessors of "%w";pronominal possessors of "%w";wh-words following "%w";infinitive objects of "%w";-ing objects of "%w";in passive;as reflexive;it's "%w"

to ...;adjectives after "%w" and noun;verbs before "%w" and noun;adjectives after "%w";verbs before "%w"

="%w" and/or ...

*UNIMAP and/or *SYMMETRIC

1:NOUN [word=","]{0,1} [word="and"|word="or"|word=","] DETERMINER{0,1} "CD"{0,2} MODIFIER{0,3} NOUN{0,2} 2:NOUN NOT_NOUN

1:VERB [word=","]{0,1} [word="and"|word="or"|word=","] ADVERB{0,2} 2:VERB & 1.tag = 2.tag

1:ADJECTIVE [word=","]{0,1} [word="and"|word="or"|word=","]{0,1} ADVERB{0,2} 2:ADJECTIVE & 1.tag = 2.tag

*DUAL

=objects of "%w"/verbs with "%w" as object

*UNIMAP object/object_of

1:VERB ADVERB{0,2} DETERMINER{0,1} "CD"{0,2} MODIFIER{0,3} NOUN{0,2} 2:NOUN NOT_NOUN

2:NOUN ADVERB{0,2} 1:"V.N"

2:NOUN WHO_WHICH_THAT? ADVERB{0,5} VERB_BE ADVERB{0,2} 1:"V.N"

*DUAL

=subjects of "%w"/verbs with "%w" as subject

*UNIMAP subject/subject_of

2:NOUN WHO_WHICH_THAT? ADVERB{0,3} VERB_BE? ADVERB{0,2} 1:"V.[^N]?"

2:NOUN WHO_WHICH_THAT? ADVERB{0,3} VERB_BE? ADVERB{0,2} VERB_HAVE ADVERB{0,2} 1:"V.N"

1:"V.N" ADVERB{0,2} [word="by"] DETERMINER{0,1} "CD"{0,2} MODIFIER{0,3} NOUN{0,2} 2:NOUN NOT_NOUN

*DUAL

=adjective predicates of "%w"/subjects of "be %w"

*UNIMAP adj_subject_of/adj_subject

1:NOUN WHO_WHICH_THAT? ADVERB{0,3} VERB_BE? ADVERB{0,2} 2:ADJECTIVE NOT_NOUN

*DUAL

="%w" is a .../... is a "%w"

*UNIMAP predicate_of/predicate

1:NOUN WHO_WHICH_THAT? ADVERB{0,5} VERB_BE ADVERB{0,2} DETERMINER{0,1} "CD"{0,2} MODIFIER{0,3} NOUN{0,2} 2:NOUN NOT_NOUN

=pronominal objects of "%w"

*UNIMAP pro_object

1:VERB ADVERB{0,2} 2:[tag="PP" & word!="I" & word!="he" & word!="she" & word!="we" & word!="they"]

=pronominal subjects of "%w"

*UNIMAP pro_subject

2:"PP" ADVERB{0,3} VERB_BE? ADVERB{0,2} 1:[tag="V.[^N]?"]

2:"PP" ADVERB{0,5} VERB_BE ADVERB{0,2} 1:"V.N"

*DUAL

=modifiers of "%w"/nouns and verbs modified by "%w"

*UNIMAP modifier/modifies

2:"(JJ.*|N.*[^Z])" MODIFIER{0,3} NOUN{0,2} 1:NOUN NOT_NOUN

2:"RB" 1:[tag="JJ.*"|tag="V.*"]

1:VERB ADVERB{0,2} 2:"RB" [tag!="RB.*" & tag!="JJ.*"]

*DUAL

=%w's .../possessors of "%w"

*UNIMAP possessed/possessor

1:"N.*Z" "CD"{0,2} MODIFIER{0,3} NOUN{0,1} 2:NOUN NOT_NOUN

=pronominal possessors of "%w"

*UNIMAP pro_possessor

1:"PPZ" "CD"{0,2} MODIFIER{0,3} NOUN{0,1} 2:NOUN NOT_NOUN

=wh-words following "%w"

*UNIMAP wh_comp

1:VERB ADVERB{0,2} 2:[tag="W.*"]

=infinitive objects of "%w"

*UNIMAP infin_comp

1:VERB ADVERB{0,2} "TO" ADVERB{0,2} 2:"V.P?"

1:ADJECTIVE "RB"{0,1} "TO" ADVERB{0,2} 2:"V.P?"

=-ing objects of "%w"

*UNIMAP ing_comp

1:VERB ADVERB{0,3} 2:"V.G"

*UNARY

=in passive

*UNIMAP passive

[tag="N.*"|tag="PU."] ADVERB{0,5} 1:"V.N"

*UNARY

=as reflexive

*UNIMAP reflexive

1:VERB [tag="PP" & word = ".*sel[fv].*"]

*UNARY

=it's "%w" to ...

*UNIMAP it+

[word="it"] ADVERB{0,3} VERB_BE? ADVERB{0,2} 1:ADJECTIVE ADVERB{0,2} [tag="IN/that"|tag="PP"|tag="TO"]

[word="it"] ADVERB{0,3} VERB_BE? ADVERB{0,2} DETERMINER{0,1} "CD"{0,2} MODIFIER{0,3} NOUN{0,2} 1:NOUN "TO"

[word="it"] ADVERB{0,3} VERB_BE? ADVERB{0,2} DETERMINER{0,1} "CD"{0,2} MODIFIER{0,3} NOUN{0,2} 1:NOUN [word="for"] "PP" "TO"

*SEPARATEPAGE prepositional phrases *DUAL *TRINARY

="%w" %(3.lemma) .../... %(3.lemma) "%w"

1:[tag="N.*"|tag="JJ.*"] 3:"IN" DETERMINER{0,1} "CD"{0,2} MODIFIER{0,3} NOUN{0,2} 2:NOUN NOT_NOUN

1:VERB ADVERB{0,2} 3:"IN" DETERMINER{0,1} "CD"{0,2} MODIFIER{0,3} NOUN{0,2} 2:NOUN NOT_NOUN

*DUAL

=adjectives after "%w" and noun/verbs before "%w" and noun

*UNIMAP np_adj_comp/np_adj_comp_of

1:VERB ADVERB{0,2} DETERMINER{0,1} MODIFIER{0,3} NOUN{0,1} NOUN ADVERB{0,2} 2:ADJECTIVE NOT_NOUN

1:VERB ADVERB{0,2} "PP" ADVERB{0,2} 2:ADJECTIVE NOT_NOUN

*DUAL

=adjectives after "%w"/verbs before "%w"

*UNIMAP adj_comp/adj_comp_of

1:VERB ADVERB{0,2} 2:ADJECTIVE [tag!="N.*" & tag!="CC" & tag!="JJ.*"]

=particles after "%w"

*UNIMAP part_intrans

1:VERB 2:"RP" [!(tag="DT"|tag="PPZ"|tag="CD"|tag="JJ.*"|tag="N.*")]

=particles after "%w" with object

*UNIMAP part_trans

1:VERB 2:"RP" [tag="DT"|tag="PPZ"|tag="CD"|tag="JJ.*"|tag="N.*"]

1:VERB "PP" 2:"RP"

1:VERB DETERMINER{0,1} MODIFIER{0,3} NOUN{0,1} NOUN 2:"RP"

*DUAL *TRINARY

=objects of "%w %(3.lemma)"/verbs with particle "%(3.lemma)" and "%w" as object

1:VERB 3:"RP" DETERMINER{0,1} "CD"{0,2} MODIFIER{0,3} NOUN{0,2} 2:NOUN NOT_NOUN