egibson-2:stanford-parser-2010-11-30 egibson$ ./lexparser-more-mem.csh ../stories\_jan26\_2011\_final/Story9\_finalized.txt

Loading parser from serialized file ./englishPCFG.ser.gz ... done [2.1 sec].

../stories\_jan26\_2011\_final/Story9\_finalized.txt

Parsing file: ../stories\_jan26\_2011\_final/Story9\_finalized.txt with 48 sentences.

Parsing [sent. 1 len. 30]: [Tulip, mania, was, a, period, in, the, Dutch, Golden, Age, during, which, contract, prices, for, bulbs, of, the, recently, introduced, tulip, reached, extraordinarily, high, levels, and, then, suddenly, collapsed, .]

(ROOT

(S

(NP (NNP Tulip) (NN mania))

(VP (VBD was)

(NP

(NP (DT a) (NN period))

(PP (IN in)

(NP (DT the) (NNP Dutch) (NNP Golden) (NNP Age)))

(SBAR

(WHPP (IN during)

(WHNP (WDT which)))

(S

(NP

(NP (NN contract) (NNS prices))

(PP (IN for)

(NP

(NP (NNS bulbs))

(PP (IN of)

(NP (DT the)

(ADJP (RB recently) (VBN introduced))

(NN tulip))))))

(VP

(VP (VBD reached)

(NP

(ADJP (RB extraordinarily) (JJ high))

(NNS levels)))

(CC and)

(ADVP (RB then))

(ADVP (RB suddenly))

(VP (VBD collapsed)))))))

(. .)))

nn(mania-2, Tulip-1)

nsubj(period-5, mania-2)

cop(period-5, was-3)

det(period-5, a-4)

det(Age-10, the-7)

nn(Age-10, Dutch-8)

nn(Age-10, Golden-9)

prep\_in(period-5, Age-10)

rel(reached-22, which-12)

nn(prices-14, contract-13)

nsubj(reached-22, prices-14)

prep\_for(prices-14, bulbs-16)

det(tulip-21, the-18)

advmod(introduced-20, recently-19)

amod(tulip-21, introduced-20)

prep\_of(bulbs-16, tulip-21)

rcmod(period-5, reached-22)

advmod(high-24, extraordinarily-23)

amod(levels-25, high-24)

dobj(reached-22, levels-25)

rcmod(period-5, collapsed-29)

advmod(collapsed-29, then-27)

conj\_and(reached-22, collapsed-29)

advmod(collapsed-29, suddenly-28)

Parsing [sent. 2 len. 27]: [At, the, peak, of, tulip, mania, in, February, sixteen, thirty-seven, ,, tulip, contracts, sold, for, more, than, ten, times, the, annual, income, of, a, skilled, craftsman, .]

(ROOT

(S

(PP (IN At)

(NP

(NP (DT the) (NN peak))

(PP (IN of)

(NP (NN tulip) (NN mania)))

(PP (IN in)

(NP (NNP February) (NN sixteen) (NN thirty-seven)))))

(, ,)

(NP (NN tulip) (NNS contracts))

(VP (VBD sold)

(PP (IN for)

(NP

(NP

(QP (JJR more) (IN than) (CD ten) (NNS times))

(DT the) (JJ annual) (NN income))

(PP (IN of)

(NP (DT a) (JJ skilled) (NN craftsman))))))

(. .)))

det(peak-3, the-2)

prep\_at(sold-14, peak-3)

nn(mania-6, tulip-5)

prep\_of(peak-3, mania-6)

nn(thirty-seven-10, February-8)

nn(thirty-seven-10, sixteen-9)

prep\_in(peak-3, thirty-seven-10)

nn(contracts-13, tulip-12)

nsubj(sold-14, contracts-13)

mwe(than-17, more-16)

quantmod(times-19, than-17)

number(times-19, ten-18)

num(income-22, times-19)

det(income-22, the-20)

amod(income-22, annual-21)

prep\_for(sold-14, income-22)

det(craftsman-26, a-24)

amod(craftsman-26, skilled-25)

prep\_of(income-22, craftsman-26)

Parsing [sent. 3 len. 10]: [It, is, generally, considered, the, first, recorded, economic, bubble, .]

(ROOT

(S

(NP (PRP It))

(VP (VBZ is)

(ADVP (RB generally))

(VP (VBN considered)

(NP (DT the) (JJ first) (JJ recorded) (JJ economic) (NN bubble))))

(. .)))

nsubjpass(considered-4, It-1)

auxpass(considered-4, is-2)

advmod(considered-4, generally-3)

det(bubble-9, the-5)

amod(bubble-9, first-6)

amod(bubble-9, recorded-7)

amod(bubble-9, economic-8)

dobj(considered-4, bubble-9)

Parsing [sent. 4 len. 32]: [The, tulip, ,, introduced, to, Europe, in, the, mid, sixteenth, century, from, the, Ottoman, Empire, ,, became, very, popular, in, the, United, Provinces, ,, which, we, now, know, as, the, Netherlands, .]

(ROOT

(S

(NP

(NP (DT The) (NN tulip))

(, ,)

(VP (VBN introduced)

(PP (TO to)

(NP (NNP Europe)))

(PP (IN in)

(NP (DT the) (JJ mid) (NN sixteenth) (NN century)))

(PP (IN from)

(NP (DT the) (NNP Ottoman) (NNP Empire))))

(, ,))

(VP (VBD became)

(ADJP (RB very) (JJ popular))

(PP (IN in)

(NP

(NP (DT the) (NNP United) (NNP Provinces))

(, ,)

(SBAR

(WHNP (WDT which))

(S

(NP (PRP we))

(ADVP (RB now))

(VP (VBP know)

(PP (IN as)

(NP (DT the) (NNPS Netherlands)))))))))

(. .)))

det(tulip-2, The-1)

nsubj(popular-19, tulip-2)

partmod(tulip-2, introduced-4)

prep\_to(introduced-4, Europe-6)

det(century-11, the-8)

amod(century-11, mid-9)

nn(century-11, sixteenth-10)

prep\_in(introduced-4, century-11)

det(Empire-15, the-13)

nn(Empire-15, Ottoman-14)

prep\_from(introduced-4, Empire-15)

cop(popular-19, became-17)

advmod(popular-19, very-18)

det(Provinces-23, the-21)

nn(Provinces-23, United-22)

prep\_in(popular-19, Provinces-23)

dobj(know-28, Provinces-23)

rel(know-28, which-25)

nsubj(know-28, we-26)

advmod(know-28, now-27)

rcmod(Provinces-23, know-28)

det(Netherlands-31, the-30)

prep\_as(know-28, Netherlands-31)

Parsing [sent. 5 len. 53]: [Tulip, cultivation, in, the, United, Provinces, is, generally, thought, to, have, started, in, earnest, around, fifteen, ninety-three, ,, after, the, Flemish, botanist, Charles, de, l'Ecluse, had, taken, up, a, post, at, the, University, of, Leiden, and, established, a, botanical, garden, ,, which, is, famous, as, one, of, the, oldest, in, the, world, .]

(ROOT

(S

(NP

(NP (JJ Tulip) (NN cultivation))

(PP (IN in)

(NP (DT the) (NNP United) (NNPS Provinces))))

(VP (VBZ is)

(ADVP (RB generally))

(VP (VBN thought)

(S

(VP (TO to)

(VP (VB have)

(VP (VBN started)

(PP (IN in)

(NP (NN earnest)))

(PP (IN around)

(NP (NN fifteen) (NN ninety-three)))

(, ,)

(SBAR (IN after)

(S

(NP (NP (DT the) (JJ Flemish) (NN botanist)) (NP (NNP Charles) (NNP de) (NN l'Ecluse)))

(VP (VBD had)

(VP

(VP (VBN taken)

(PRT (RP up))

(NP (DT a) (NN post))

(PP (IN at)

(NP

(NP (DT the) (NNP University))

(PP (IN of)

(NP (NNP Leiden))))))

(CC and)

(VP (VBN established)

(NP

(NP (DT a) (JJ botanical) (NN garden))

(, ,)

(SBAR

(WHNP (WDT which))

(S

(VP (VBZ is)

(ADJP (JJ famous)

(PP (IN as)

(NP

(NP (CD one))

(PP (IN of)

(NP

(NP (DT the) (JJS oldest))

(PP (IN in)

(NP (DT the) (NN world)))))))))))))))))))))))

(. .)))

amod(cultivation-2, Tulip-1)

nsubjpass(thought-9, cultivation-2)

xsubj(started-12, cultivation-2)

det(Provinces-6, the-4)

nn(Provinces-6, United-5)

prep\_in(cultivation-2, Provinces-6)

auxpass(thought-9, is-7)

advmod(thought-9, generally-8)

aux(started-12, to-10)

aux(started-12, have-11)

xcomp(thought-9, started-12)

prep\_in(started-12, earnest-14)

nn(ninety-three-17, fifteen-16)

prep\_around(started-12, ninety-three-17)

mark(taken-27, after-19)

det(botanist-22, the-20)

amod(botanist-22, Flemish-21)

appos(botanist-22, l'Ecluse-25)

nn(l'Ecluse-25, Charles-23)

nn(l'Ecluse-25, de-24)

nsubj(taken-27, botanist-22)

nsubj(established-37, botanist-22)

aux(taken-27, had-26)

advcl(started-12, taken-27)

prt(taken-27, up-28)

det(post-30, a-29)

dobj(taken-27, post-30)

det(University-33, the-32)

prep\_at(taken-27, University-33)

prep\_of(University-33, Leiden-35)

advcl(started-12, established-37)

aux(established-37, had-26)

conj\_and(taken-27, established-37)

det(garden-40, a-38)

amod(garden-40, botanical-39)

dobj(established-37, garden-40)

nsubj(famous-44, garden-40)

cop(famous-44, is-43)

rcmod(garden-40, famous-44)

prep\_as(famous-44, one-46)

det(oldest-49, the-48)

prep\_of(one-46, oldest-49)

det(world-52, the-51)

prep\_in(oldest-49, world-52)

Parsing [sent. 6 len. 33]: [There, ,, he, planted, his, collection, of, tulip, bulbs, that, the, Emperor, 's, ambassador, sent, to, him, from, Turkey, ,, which, were, able, to, tolerate, the, harsher, conditions, of, the, northern, climate, .]

(ROOT

(S

(ADVP (RB There))

(, ,)

(NP (PRP he))

(VP (VBD planted)

(NP

(NP (PRP$ his) (NN collection))

(PP (IN of)

(NP

(NP (NN tulip) (NNS bulbs))

(SBAR (IN that)

(S

(NP

(NP (DT the) (NN Emperor) (POS 's))

(NN ambassador))

(VP (VBD sent)

(PP (TO to)

(NP (PRP him)))

(PP (IN from)

(NP (NNP Turkey))))))

(, ,)

(SBAR

(WHNP (WDT which))

(S

(VP (VBD were)

(ADJP (JJ able)

(S

(VP (TO to)

(VP (VB tolerate)

(NP

(NP (DT the) (JJR harsher) (NNS conditions))

(PP (IN of)

(NP (DT the) (JJ northern) (NN climate)))))))))))))))

(. .)))

advmod(planted-4, There-1)

nsubj(planted-4, he-3)

poss(collection-6, his-5)

dobj(planted-4, collection-6)

nn(bulbs-9, tulip-8)

prep\_of(collection-6, bulbs-9)

rel(sent-15, that-10)

det(Emperor-12, the-11)

poss(ambassador-14, Emperor-12)

nsubj(sent-15, ambassador-14)

rcmod(bulbs-9, sent-15)

dobj(sent-15, bulbs-9)

prep\_to(sent-15, him-17)

prep\_from(sent-15, Turkey-19)

nsubj(able-23, bulbs-9)

cop(able-23, were-22)

rcmod(bulbs-9, able-23)

aux(tolerate-25, to-24)

xcomp(able-23, tolerate-25)

det(conditions-28, the-26)

amod(conditions-28, harsher-27)

dobj(tolerate-25, conditions-28)

det(climate-32, the-30)

amod(climate-32, northern-31)

prep\_of(conditions-28, climate-32)

Parsing [sent. 7 len. 13]: [It, was, shortly, thereafter, that, the, tulips, began, to, grow, in, popularity, .]

(ROOT

(S

(NP (PRP It))

(VP (VBD was)

(ADVP

(ADVP (RB shortly) (RB thereafter))

(SBAR (IN that)

(S

(NP (DT the) (NNS tulips))

(VP (VBD began)

(S

(VP (TO to)

(VP (VB grow)

(PP (IN in)

(NP (NN popularity)))))))))))

(. .)))

nsubj(was-2, It-1)

advmod(thereafter-4, shortly-3)

advmod(was-2, thereafter-4)

dep(began-8, that-5)

det(tulips-7, the-6)

nsubj(began-8, tulips-7)

xsubj(grow-10, tulips-7)

ccomp(thereafter-4, began-8)

aux(grow-10, to-9)

xcomp(began-8, grow-10)

prep\_in(grow-10, popularity-12)

Parsing [sent. 8 len. 20]: [The, flower, rapidly, became, a, coveted, luxury, item, and, a, status, symbol, ,, and, a, profusion, of, varieties, followed, .]

(ROOT

(S

(S

(NP (DT The) (NN flower))

(ADVP (RB rapidly))

(VP (VBD became)

(NP

(NP (DT a) (JJ coveted) (NN luxury) (NN item))

(CC and)

(NP (DT a) (NN status) (NN symbol)))))

(, ,)

(CC and)

(S

(NP

(NP (DT a) (NN profusion))

(PP (IN of)

(NP (NNS varieties))))

(VP (VBD followed)))

(. .)))

det(flower-2, The-1)

nsubj(item-8, flower-2)

advmod(item-8, rapidly-3)

cop(item-8, became-4)

det(item-8, a-5)

amod(item-8, coveted-6)

nn(item-8, luxury-7)

det(symbol-12, a-10)

nn(symbol-12, status-11)

conj\_and(item-8, symbol-12)

det(profusion-16, a-15)

nsubj(followed-19, profusion-16)

prep\_of(profusion-16, varieties-18)

conj\_and(item-8, followed-19)

Parsing [sent. 9 len. 70]: [They, were, classified, in, groups, :, one-colored, tulips, of, red, ,, yellow, ,, or, white, were, known, as, Couleren, ,, but, it, was, the, multicolored, Rosen, -LRB-, red, or, pink, on, white, background, -RRB-, ,, Violetten, -LRB-, purple, or, lilac, on, white, background, -RRB-, ,, and, ,, to, a, lesser, extent, ,, the, Bizarden, -LRB-, red, ,, brown, or, purple, on, yellow, background, -RRB-, that, were, the, most, popular, .]

(ROOT

(S

(S

(NP (PRP They))

(VP (VBD were)

(VP (VBN classified)

(PP (IN in)

(NP (NNS groups))))))

(: :)

(S

(S

(NP

(NP (JJ one-colored) (NNS tulips))

(PP (IN of)

(ADJP

(ADJP (JJ red))

(, ,)

(ADJP (JJ yellow))

(, ,)

(CC or)

(ADJP (JJ white)))))

(VP (VBD were)

(VP (VBN known)

(PP (IN as)

(NP (NNP Couleren))))))

(, ,)

(CC but)

(S

(NP (PRP it))

(VP (VBD was)

(NP

(NP (DT the) (JJ multicolored)

(NP

(NP (NNP Rosen))

(PRN (-LRB- -LRB-)

(NP

(NP

(ADJP (JJ red)

(CC or)

(JJ pink)))

(PP (IN on)

(NP (JJ white) (NN background))))

(-RRB- -RRB-)))

(, ,)

(NP

(NP (NNP Violetten))

(PRN (-LRB- -LRB-)

(NP

(NP

(ADJP (JJ purple)

(CC or)

(JJ lilac)))

(PP (IN on)

(NP (JJ white) (NN background))))

(-RRB- -RRB-)))

(, ,)

(CC and)

(NP

(, ,)

(PP (TO to)

(NP (DT a) (JJR lesser) (NN extent)))

(, ,)

(NP (NP (DT the)(NNP Bizarden))

(PRN (-LRB- -LRB-)

(NP

(NP

(ADJP (JJ red) (, ,) (JJ brown)

(CC or)

(JJ purple)))

(PP (IN on)

(NP (JJ yellow) (NN background))))

(-RRB- -RRB-)))))

(SBAR

(WHNP (WDT that))

(S

(VP (VBD were)

(NP (DT the)

(ADJP (RBS most) (JJ popular))))))))))

(. .)))

nsubjpass(classified-3, They-1)

auxpass(classified-3, were-2)

prep\_in(classified-3, groups-5)

amod(tulips-8, one-colored-7)

nsubjpass(known-17, tulips-8)

prep\_of(tulips-8, red-10)

prep\_of(tulips-8, yellow-12)

conj\_or(red-10, yellow-12)

prep\_of(tulips-8, white-15)

conj\_or(red-10, white-15)

conj\_or(yellow-12, white-15)

auxpass(known-17, were-16)

parataxis(classified-3, known-17)

prep\_as(known-17, Couleren-19)

nsubj(Rosen-26, it-22)

nsubj(Violetten-36, it-22)

nsubj(Bizarden-54, it-22)

cop(Rosen-26, was-23)

cop(Violetten-36, was-23)

cop(Bizarden-54, was-23)

det(Rosen-26, the-24)

amod(Rosen-26, multicolored-25)

amod(Violetten-36, multicolored-25)

amod(Bizarden-54, multicolored-25)

parataxis(classified-3, Rosen-26)

parataxis(classified-3, Violetten-36)

parataxis(classified-3, Bizarden-54)

conj\_but(known-17, Rosen-26)

nsubj(popular-69, Rosen-26)

dep(Rosen-26, red-28)

dep(Rosen-26, pink-30)

conj\_or(red-28, pink-30)

amod(background-33, white-32)

prep\_on(red-28, background-33)

prep\_on(pink-30, background-33)

conj\_but(known-17, Violetten-36)

conj\_and(Rosen-26, Violetten-36)

nsubj(popular-69, Violetten-36)

dep(Violetten-36, purple-38)

dep(Violetten-36, lilac-40)

conj\_or(purple-38, lilac-40)

amod(background-43, white-42)

prep\_on(purple-38, background-43)

prep\_on(lilac-40, background-43)

det(extent-51, a-49)

amod(extent-51, lesser-50)

prep\_to(Bizarden-54, extent-51)

det(Bizarden-54, the-53)

conj\_but(known-17, Bizarden-54)

conj\_and(Rosen-26, Bizarden-54)

nsubj(popular-69, Bizarden-54)

dep(Bizarden-54, red-56)

dep(Bizarden-54, brown-58)

conj\_or(red-56, brown-58)

dep(Bizarden-54, purple-60)

conj\_or(red-56, purple-60)

amod(background-63, yellow-62)

prep\_on(red-56, background-63)

prep\_on(brown-58, background-63)

prep\_on(purple-60, background-63)

cop(popular-69, were-66)

det(popular-69, the-67)

advmod(popular-69, most-68)

rcmod(Rosen-26, popular-69)

rcmod(Violetten-36 , popular-69)

rcmod(Bizarden-54, popular-69)

Parsing [sent. 10 len. 46]: [These, spectacular, and, highly, sought-after, tulip, bulbs, would, grow, flowers, with, vivid, colors, ,, lines, ,, and, flames, on, the, petals, ,, as, a, result, ,, it, is, now, understood, ,, of, being, infected, with, tulip-specific, virus, known, as, the, ``, Tulip, breaking, virus, '', .]

(ROOT

(S

(NP (DT These)

(ADJP

(ADJP (JJ spectacular))

(CC and)

(ADJP (RB highly) (JJ sought-after)))

(NN tulip) (NNS bulbs))

(VP (MD would)

(VP (VB grow)

(NP

(NP (NNS flowers))

(PP (IN with)

(NP (NP

(NP (JJ vivid) (NNS colors))

(, ,)

(NP (NNS lines))

(, ,)

(CC and)

(NP (NNS flames)))

(PP (IN on)

(NP (DT the) (NNS petals))))))

(, ,)

(PP (IN as)

(NP

(NP (DT a) (NN result))

(, ,)

(PRN

(S

(NP (PRP it))

(VP (VBZ is)

(ADVP (RB now))

(VP (VBN understood)))))

(, ,)

(PP (IN of)

(S

(VP (VBG being)

(VP (VBN infected)

(PP (IN with)

(NP

(NP (JJ tulip-specific) (NN virus))

(VP (VBN known)

(PP (IN as)

(NP (DT the) (`` ``) (JJ Tulip) (JJ breaking) (NN virus) ('' ''))))))))))))))

(. .)))

det(bulbs-7, These-1)

amod(bulbs-7, spectacular-2)

advmod(sought-after-5, highly-4)

conj\_and(spectacular-2, sought-after-5)

amod(bulbs-7, sought-after-5)

nn(bulbs-7, tulip-6)

nsubj(grow-9, bulbs-7)

aux(grow-9, would-8)

dobj(grow-9, flowers-10)

amod(colors-13, vivid-12)

prep\_with(flowers-10, colors-13)

prep\_with(flowers-10, lines-15)

conj\_and(colors-13, lines-15)

prep\_with(flowers-10, flames-18)

conj\_and(colors-13, flames-18)

det(petals-21, the-20)

prep\_on(colors-13, petals-21)

prep\_on(lines-15, petals-21)

prep\_on(flames-18, petals-21)

det(result-25, a-24)

prep\_as(grow-9, result-25)

nsubjpass(understood-30, it-27)

auxpass(understood-30, is-28)

advmod(understood-30, now-29)

parataxis(result-25, understood-30)

auxpass(infected-34, being-33)

prepc\_of(result-25, infected-34)

amod(virus-37, tulip-specific-36)

prep\_with(infected-34, virus-37)

partmod(virus-37, known-38)

det(virus-44, the-40)

amod(virus-44, Tulip-42)

amod(virus-44, breaking-43)

prep\_as(known-38, virus-44)

Parsing [sent. 11 len. 13]: [The, Dutch, Golden, Age, growers, named, their, new, varieties, with, exalted, titles, .]

(ROOT

(S

(NP (DT The) (JJ Dutch) (NNP Golden) (NNP Age) (NNS growers))

(VP (VBD named)

(NP (PRP$ their) (JJ new) (NNS varieties))

(PP (IN with)

(NP (JJ exalted) (NNS titles))))

(. .)))

det(growers-5, The-1)

amod(growers-5, Dutch-2)

nn(growers-5, Golden-3)

nn(growers-5, Age-4)

nsubj(named-6, growers-5)

poss(varieties-9, their-7)

amod(varieties-9, new-8)

dobj(named-6, varieties-9)

amod(titles-12, exalted-11)

prep\_with(named-6, titles-12)

Parsing [sent. 12 len. 18]: [Many, early, forms, were, prefixed, with, ``, admiral, '', ,, often, combined, with, the, growers, ', names, .]

(ROOT

(S

(NP (JJ Many) (JJ early) (NNS forms))

(VP (VBD were)

(VP (VBN prefixed)

(PP (IN with) (`` ``)

(NP (NN admiral))

('' ''))

(, ,)

(ADVP (RB often))

(PP (VBN combined)

(PP (IN with)

(NP

(NP (DT the) (NNS growers) (POS '))

(NNS names))))))

(. .)))

amod(forms-3, Many-1)

amod(forms-3, early-2)

nsubjpass(prefixed-5, forms-3)

auxpass(prefixed-5, were-4)

prep\_with(prefixed-5, admiral-8)

advmod(combined-12, often-11)

prep(prefixed-5, combined-12)

pcomp(combined-12, with-13)

det(growers-15, the-14)

poss(names-17, growers-15)

prep\_with(combined-12, names-17)

Parsing [sent. 13 len. 18]: [``, General, '', was, another, prefix, that, found, its, way, into, the, names, of, around, thirty, varieties, .]

(ROOT

(S (`` ``)

(NP (NNP General))

('' '')

(VP (VBD was)

(NP

(NP (DT another) (NN prefix))

(SBAR

(WHNP (WDT that))

(S

(VP (VBD found)

(NP (PRP$ its) (NN way))

(PP (IN into)

(NP

(NP (DT the) (NNS names))

(PP (IN of)

(NP (IN around) (CD thirty) (NNS varieties))))))))))

(. .)))

nsubj(prefix-6, General-2)

cop(prefix-6, was-4)

det(prefix-6, another-5)

nsubj(found-8, prefix-6)

rcmod(prefix-6, found-8)

poss(way-10, its-9)

dobj(found-8, way-10)

det(names-13, the-12)

prep\_into(found-8, names-13)

amod(varieties-17, around-15)

num(varieties-17, thirty-16)

prep\_of(names-13, varieties-17)

Parsing [sent. 14 len. 24]: [Later, came, varieties, with, even, more, superb, names, ,, such, as, even, ``, Admiral, of, Admirals, '', and, ``, General, of, Generals, '', .]

(ROOT

(SINV

(ADVP (RB Later))

(VP (VBD came)

(NP (NP (NNS varieties))

(PP (IN with)

(NP

(NP

(ADJP (RB even) (RBR more) (JJ superb))

(NNS names))

(, ,)

(ADVP (JJ such)

(PP (IN as)

(ADVP (RB even))

(NP

(NP (`` ``)

(NP (NN Admiral))

(PP (IN of)

(NP (NN Admirals)))

('' ''))

(CC and)

(NP (`` ``)

(NP (NNP General))

(PP (IN of)

(NP (NNP Generals)))

('' '')))))))))

(. .)))

advmod(came-2, Later-1)

nsubj(came-2, varieties-3)

advmod(more-6, even-5)

advmod(superb-7, more-6)

amod(names-8, superb-7)

prep\_with(varieties-3, names-8)

prep\_such\_as(names-8, Admiral-14)

prep\_such\_as(names-8, General-20)

advmod(Admiral-14, even-12)

prep\_of(Admiral-14, Admirals-16)

conj\_and(Admiral-14, General-20)

prep\_of(General-20, Generals-22)

Parsing [sent. 15 len. 20]: [Most, of, these, varieties, have, now, died, out, ,, though, similar, ``, broken, '', tulips, continue, in, the, trade, .]

(ROOT

(S

(NP

(NP (JJS Most))

(PP (IN of)

(NP (DT these) (NNS varieties))))

(VP (VBP have)

(ADVP (RB now))

(VP (VBN died)

(PRT (RP out))

(, ,)

(SBAR (IN though)

(S

(NP (JJ similar) (`` ``) (JJ broken) ('' '') (NNS tulips))

(VP (VBP continue)

(PP (IN in)

(NP (DT the) (NN trade))))))))

(. .)))

nsubj(died-7, Most-1)

det(varieties-4, these-3)

prep\_of(Most-1, varieties-4)

aux(died-7, have-5)

advmod(died-7, now-6)

prt(died-7, out-8)

mark(continue-16, though-10)

amod(tulips-15, similar-11)

amod(tulips-15, broken-13)

nsubj(continue-16, tulips-15)

advcl(died-7, continue-16)

det(trade-19, the-18)

prep\_in(continue-16, trade-19)

Parsing [sent. 16 len. 15]: [Tulips, grow, from, bulbs, ,, and, can, be, propagated, through, both, seeds, and, buds, .]

(ROOT

(S

(NP (NNS Tulips))

(VP

(VP (VBP grow)

(PP (IN from)

(NP (NNS bulbs))))

(, ,)

(CC and)

(VP (MD can)

(VP (VB be)

(VP (VBN propagated)

(PP (IN through)

(NP (CC both)

(NNS seeds)

(CC and)

(NNS buds)))))))

(. .)))

nsubj(grow-2, Tulips-1)

nsubjpass(propagated-9, Tulips-1)

prep\_from(grow-2, bulbs-4)

aux(propagated-9, can-7)

auxpass(propagated-9, be-8)

conj\_and(grow-2, propagated-9)

preconj(seeds-12, both-11)

prep\_through(propagated-9, seeds-12)

prep\_through(propagated-9, buds-14)

conj\_and(seeds-12, buds-14)

Parsing [sent. 17 len. 13]: [Seeds, from, a, tulip, will, form, a, flowering, bulb, after, seven-twelve, years, .]

(ROOT

(S

(NP

(NP (NNS Seeds))

(PP (IN from)

(NP (DT a) (NN tulip))))

(VP (MD will)

(VP (VB form)

(NP (DT a) (JJ flowering) (NN bulb))

(PP (IN after)

(NP (JJ seven-twelve) (NNS years)))))

(. .)))

nsubj(form-6, Seeds-1)

det(tulip-4, a-3)

prep\_from(Seeds-1, tulip-4)

aux(form-6, will-5)

det(bulb-9, a-7)

amod(bulb-9, flowering-8)

dobj(form-6, bulb-9)

amod(years-12, seven-twelve-11)

prep\_after(form-6, years-12)

Parsing [sent. 18 len. 28]: [When, a, bulb, grows, into, the, flower, ,, the, original, bulb, will, disappear, ,, but, a, clone, bulb, forms, in, its, place, ,, as, do, several, buds, .]

(ROOT

(S

(S

(SBAR

(WHADVP (WRB When))

(S

(NP (DT a) (NN bulb))

(VP (VBZ grows)

(PP (IN into)

(NP (DT the) (NN flower))))))

(, ,)

(NP (DT the) (JJ original) (NN bulb))

(VP (MD will)

(VP (VB disappear))))

(, ,)

(CC but)

(S

(NP (DT a) (NN clone) (NN bulb))

(VP (VBZ forms)

(PP (IN in)

(NP (PRP$ its) (NN place)))

(, ,)

(SBAR (IN as)

(SINV

(VP (VBP do)

(NP (JJ several) (NNS buds)))))))

(. .)))

advmod(grows-4, When-1)

det(bulb-3, a-2)

nsubj(grows-4, bulb-3)

advcl(disappear-13, grows-4)

det(flower-7, the-6)

prep\_into(grows-4, flower-7)

det(bulb-11, the-9)

amod(bulb-11, original-10)

nsubj(disappear-13, bulb-11)

aux(disappear-13, will-12)

det(bulb-18, a-16)

nn(bulb-18, clone-17)

nsubj(forms-19, bulb-18)

conj\_but(disappear-13, forms-19)

poss(place-22, its-21)

prep\_in(forms-19, place-22)

mark(do-25, as-24)

advcl(forms-19, do-25)

amod(buds-27, several-26)

nsubj(do-25, buds-27)

Parsing [sent. 19 len. 12]: [Properly, cultivated, ,, these, buds, will, become, bulbs, of, their, own, .]

(ROOT

(S

(S

(ADJP (RB Properly) (JJ cultivated)))

(, ,)

(NP (DT these) (NNS buds))

(VP (MD will)

(VP (VB become)

(NP

(NP (NNS bulbs))

(PP (IN of)

(NP (PRP$ their) (JJ own))))))

(. .)))

advmod(cultivated-2, Properly-1)

partmod(bulbs-8, cultivated-2)

det(buds-5, these-4)

nsubj(bulbs-8, buds-5)

aux(bulbs-8, will-6)

cop(bulbs-8, become-7)

poss(own-11, their-10)

prep\_of(bulbs-8, own-11)

Parsing [sent. 20 len. 31]: [The, ``, tulip, breaking, '', virus, ,, which, many, botanists, have, studied, ,, spreads, only, through, buds, ,, not, seeds, ,, and, so, cultivating, the, most, appealing, varieties, takes, years, .]

(ROOT

(S

(S

(NP

(NP (DT The) (`` ``) (NN tulip) (NN breaking) ('' '') (NN virus))

(, ,)

(SBAR

(WHNP (WDT which))

(S

(NP (JJ many) (NNS botanists))

(VP (VBP have)

(VP (VBN studied)))))

(, ,))

(VP (VBZ spreads)

(ADVP (RB only))

(PP (IN through)

(NP

(NP (NNS buds))

(, ,) (RB not)

(NP (NNS seeds))))))

(, ,)

(CC and)

(IN so)

(S

(S

(VP (VBG cultivating)

(NP (DT the)

(ADJP (RBS most) (JJ appealing))

(NNS varieties))))

(VP (VBZ takes)

(NP (NNS years))))

(. .)))

det(virus-6, The-1)

nn(virus-6, tulip-3)

nn(virus-6, breaking-4)

dobj(studied-12, virus-6)

nsubj(spreads-14, virus-6)

rel(studied-12, which-8)

amod(botanists-10, many-9)

nsubj(studied-12, botanists-10)

aux(studied-12, have-11)

rcmod(virus-6, studied-12)

advmod(spreads-14, only-15)

prep\_through(spreads-14, buds-17)

neg(seeeds-20, not-19)

conj(buds-17, seeds-20)

advmod(takes-29, so-23)

csubj(takes-29, cultivating-24)

det(varieties-28, the-25)

advmod(appealing-27, most-26)

amod(varieties-28, appealing-27)

dobj(cultivating-24, varieties-28)

conj\_and(spreads-14, takes-29)

tmod(takes-29, years-30)

Parsing [sent. 21 len. 9]: [Propagation, is, greatly, slowed, down, by, the, virus, .]

(ROOT

(S

(NP (NN Propagation))

(VP (VBZ is)

(ADVP (RB greatly))

(VP (VBN slowed)

(PRT (RP down))

(PP (IN by)

(NP (DT the) (NN virus)))))

(. .)))

nsubjpass(slowed-4, Propagation-1)

auxpass(slowed-4, is-2)

advmod(slowed-4, greatly-3)

prt(slowed-4, down-5)

det(virus-8, the-7)

agent(slowed-4, virus-8)

Parsing [sent. 22 len. 19]: [Tulips, bloom, in, April, and, May, for, about, a, week, ,, and, the, secondary, buds, appear, shortly, thereafter, .]

(ROOT

(S

(S

(NP (NNS Tulips))

(VP (VBP bloom)

(PP (IN in)

(NP (NNP April)

(CC and)

(NNP May)))

(PP (IN for)

(NP (RB about) (DT a) (NN week)))))

(, ,)

(CC and)

(S

(NP (DT the) (JJ secondary) (NNS buds))

(VP (VBP appear)

(ADVP (RB shortly) (RB thereafter))))

(. .)))

nsubj(bloom-2, Tulips-1)

prep\_in(bloom-2, April-4)

prep\_in(bloom-2, May-6)

conj\_and(April-4, May-6)

advmod(week-10, about-8)

det(week-10, a-9)

prep\_for(bloom-2, week-10)

det(buds-15, the-13)

amod(buds-15, secondary-14)

nsubj(appear-16, buds-15)

conj\_and(bloom-2, appear-16)

advmod(thereafter-18, shortly-17)

advmod(appear-16, thereafter-18)

Parsing [sent. 23 len. 21]: [Bulbs, can, be, uprooted, and, moved, about, from, June, to, September, ,, and, thus, actual, purchases, occurred, during, these, months, .]

(ROOT

(S

(S

(NP (NNS Bulbs))

(VP (VP

(VP (MD can)

(VP (VB be)

(ADJP (JJ uprooted))))

(CC and)

(VP (VBD moved)

(PRT (RP about))))

(PP (IN from)

(NP (NNP June)))

(PP (TO to)

(NP (NNP September)))))

(, ,)

(CC and)

(S

(ADVP (RB thus))

(NP (JJ actual) (NNS purchases))

(VP (VBD occurred)

(PP (IN during)

(NP (DT these) (NNS months)))))

(. .)))

nsubj(uprooted-4, Bulbs-1)

nsubj(moved-6, Bulbs-1)

aux(uprooted-4, can-2)

cop(uprooted-4, be-3)

conj\_and(uprooted-4, moved-6)

prt(moved-6, about-7)

prep\_from(uprooted-4, June-9)

prep\_from(moved-6, June-9)

prep\_to(moved-6, September-11)

prep\_to(uprooted-4, September-11)

advmod(occurred-17, thus-14)

amod(purchases-16, actual-15)

nsubj(occurred-17, purchases-16)

conj\_and(uprooted-4, occurred-17)

det(months-20, these-19)

prep\_during(occurred-17, months-20)

Parsing [sent. 24 len. 20]: [As, the, flowers, grew, in, popularity, ,, professional, growers, paid, higher, and, higher, prices, for, bulbs, with, the, virus, .]

(ROOT

(S

(SBAR (IN As)

(S

(NP (DT the) (NNS flowers))

(VP (VBD grew)

(PP (IN in)

(NP (NN popularity))))))

(, ,)

(NP (JJ professional) (NNS growers))

(VP (VBD paid)

(NP

(ADJP (JJR higher)

(CC and)

(JJR higher))

(NNS prices))

(PP (IN for)

(NP

(NP (NNS bulbs))

(PP (IN with)

(NP (DT the) (NN virus))))))

(. .)))

mark(grew-4, As-1)

det(flowers-3, the-2)

nsubj(grew-4, flowers-3)

advcl(paid-10, grew-4)

prep\_in(grew-4, popularity-6)

amod(growers-9, professional-8)

nsubj(paid-10, growers-9)

amod(prices-14, higher-11)

conj\_and(higher-11, higher-13)

amod(prices-14, higher-13)

dobj(paid-10, prices-14)

prep\_for(paid-10, bulbs-16)

det(virus-19, the-18)

prep\_with(bulbs-16, virus-19)

Parsing [sent. 25 len. 22]: [By, sixteen, thirty-four, ,, in, part, as, a, result, of, demand, from, the, French, ,, speculators, began, to, enter, the, market, .]

(ROOT

(S

(PP (IN By)

(NP (NN sixteen) (NN thirty-four)))

(, ,)

(PP (IN in)

(NP (NN part)))

(PP (IN as)

(NP

(NP (DT a) (NN result))

(PP (IN of)

(NP

(NP (NN demand))

(PP (IN from)

(NP (DT the) (NNP French)))))))

(, ,)

(NP (NNS speculators))

(VP (VBD began)

(S

(VP (TO to)

(VP (VB enter)

(NP (DT the) (NN market))))))

(. .)))

nn(thirty-four-3, sixteen-2)

prep\_by(began-17, thirty-four-3)

prep\_in(result-9, part-6)

det(result-9, a-8)

prep\_as(began-17, result-9)

prep\_of(result-9, demand-11)

det(French-14, the-13)

prep\_from(demand-11, French-14)

nsubj(began-17, speculators-16)

xsubj(enter-19, speculators-16)

aux(enter-19, to-18)

xcomp(began-17, enter-19)

det(market-21, the-20)

dobj(enter-19, market-21)

Parsing [sent. 26 len. 32]: [In, sixteen, thirty-six, ,, the, Dutch, created, a, type, of, formal, futures, markets, ,, which, merchants, used, to, sell, and, buy, contracts, to, buy, bulbs, at, the, end, of, the, season, .]

(ROOT

(S

(PP (IN In)

(NP (NN sixteen) (NN thirty-six)))

(, ,)

(NP (DT the) (NNPS Dutch))

(VP (VBD created)

(NP

(NP (DT a) (NN type))

(PP (IN of)

(NP

(NP (JJ formal) (NNS futures) (NNS markets))

(, ,)

(SBAR

(WHNP (WDT which))

(S

(NP (NNS merchants))

(VP (VBD used)

(S

(VP (TO to)

(VP (VB sell)

(CC and)

(VB buy)

(NP (NNS contracts))

(S

(VP (TO to)

(VP (VB buy)

(NP (NNS bulbs))

(PP (IN at)

(NP

(NP (DT the) (NN end))

(PP (IN of)

(NP (DT the) (NN season))))))))))))))))))

(. .)))

nn(thirty-six-3, sixteen-2)

prep\_in(created-7, thirty-six-3)

det(Dutch-6, the-5)

nsubj(created-7, Dutch-6)

det(type-9, a-8)

dobj(created-7, type-9)

amod(markets-13, formal-11)

nn(markets-13, futures-12)

prep\_of(type-9, markets-13)

rel(used-17, which-15)

nsubj(used-17, merchants-16)

xsubj(sell-19, merchants-16)

rcmod(markets-13, used-17)

aux(sell-19, to-18)

xcomp(used-17, sell-19)

xcomp(used-17, buy-21)

conj\_and(sell-19, buy-21)

dobj(sell-19, contracts-22)

aux(buy-24, to-23)

xcomp(sell-19, buy-24)

dobj(buy-24, bulbs-25)

det(end-28, the-27)

prep\_at(buy-24, end-28)

det(season-31, the-30)

prep\_of(end-28, season-31)

Parsing [sent. 27 len. 15]: [Traders, met, at, taverns, and, buyers, were, required, to, pay, a, fee, per, trade, .]

(ROOT

(S

(S

(NP (NNS Traders))

(VP (VBD met)

(PP (IN at)

(NP (NNS taverns)))))

(CC and)

(S

(NP (NNS buyers))

(VP (VBD were)

(VP (VBN required)

(S

(VP (TO to)

(VP (VB pay)

(NP

(NP (DT a) (NN fee))

(PP (IN per)

(NP (NN trade))))))))))

(. .)))

nsubj(met-2, Traders-1)

prep\_at(met-2, taverns-4)

conj\_and(met-2, required-8)

nsubjpass(required-8, buyers-6)

xsubj(pay-10, buyers-6)

auxpass(required-8, were-7)

aux(pay-10, to-9)

xcomp(required-8, pay-10)

det(fee-12, a-11)

dobj(pay-10, fee-12)

prep\_per(fee-12, trade-14)

Parsing [sent. 28 len. 18]: [People, were, purchasing, bulbs, at, higher, and, higher, prices, ,, intending, to, re-sell, them, for, a, profit, .]

(ROOT

(S

(NP (NNS People))

(VP (VBD were)

(VP

(VP (VBG purchasing)

(NP (NNS bulbs))

(PP (IN at)

(NP

(ADJP (JJR higher)

(CC and)

(JJR higher))

(NNS prices))))

(, ,)

(VP (VBG intending)

(S (VP (TO to)

(VP (VB re-sell)

(NP (PRP them))

(PP (IN for)

(NP (DT a) (NN profit)))))))))

(. .)))

nsubj(purchasing-3, People-1)

aux(purchasing-3, were-2)

dobj(purchasing-3, bulbs-4)

amod(prices-9, higher-6)

conj\_and(higher-6, higher-8)

amod(prices-9, higher-8)

prep\_at(purchasing-3, prices-9)

dep(purchasing-3, intending-11)

xcomp(intending-11, re-sell-13)

aux(re-sell-13, to-12)

dobj(re-sell-13, them-14)

det(profit-17, a-16)

prep\_for(re-sell-13, profit-17)

Parsing [sent. 29 len. 25]: [However, ,, such, a, scheme, could, not, last, unless, someone, was, ultimately, willing, to, pay, such, high, prices, and, take, possession, of, the, bulbs, .]

(ROOT

(S

(ADVP (RB However))

(, ,)

(NP (PDT such) (DT a) (NN scheme))

(VP (MD could) (RB not)

(VP (VB last)

(SBAR (IN unless)

(S

(NP (NN someone))

(VP (VBD was)

(ADVP (RB ultimately))

(ADJP (JJ willing)

(S

(VP (TO to)

(VP

(VP (VB pay)

(NP (JJ such) (JJ high) (NNS prices)))

(CC and)

(VP (VB take)

(NP

(NP (NN possession))

(PP (IN of)

(NP (DT the) (NNS bulbs))))))))))))))

(. .)))

advmod(last-8, However-1)

predet(scheme-5, such-3)

det(scheme-5, a-4)

nsubj(last-8, scheme-5)

aux(last-8, could-6)

neg(last-8, not-7)

mark(willing-13, unless-9)

nsubj(willing-13, someone-10)

cop(willing-13, was-11)

advmod(willing-13, ultimately-12)

advcl(last-8, willing-13)

aux(pay-15, to-14)

xcomp(willing-13, pay-15)

amod(prices-18, such-16)

amod(prices-18, high-17)

dobj(pay-15, prices-18)

xcomp(willing-13, take-20)

conj\_and(pay-15, take-20)

dobj(take-20, possession-21)

det(bulbs-24, the-23)

prep\_of(possession-21, bulbs-24)

Parsing [sent. 30 len. 23]: [In, February, sixteen, thirty-seven, ,, tulip, traders, could, no, longer, find, new, buyers, willing, to, pay, increasingly, inflated, prices, for, their, bulbs, .]

(ROOT

(S

(PP (IN In)

(NP (NNP February) (NN sixteen) (NN thirty-seven)))

(, ,)

(NP (NN tulip) (NNS traders))

(VP (MD could)

(ADVP (RB no) (RB longer))

(VP (VB find)

(NP (JJ new) (NNS buyers))

(S

(VP (VBG willing)

(S

(VP (TO to)

(VP (VB pay)

(NP

(ADJP (RB increasingly) (JJ inflated))

(NNS prices))

(PP (IN for)

(NP (PRP$ their) (NNS bulbs))))))))))

(. .)))

nn(thirty-seven-4, February-2)

nn(thirty-seven-4, sixteen-3)

prep\_in(find-11, thirty-seven-4)

nn(traders-7, tulip-6)

nsubj(find-11, traders-7)

aux(find-11, could-8)

advmod(longer-10, no-9)

advmod(find-11, longer-10)

amod(buyers-13, new-12)

partmod(willing-14, buyers-13)

dobj(find-11, buyers-13)

aux(pay-16, to-15)

xcomp(willing-14, pay-16)

advmod(inflated-18, increasingly-17)

amod(prices-19, inflated-18)

dobj(pay-16, prices-19)

poss(bulbs-22, their-21)

prep\_for(pay-16, bulbs-22)

Parsing [sent. 31 len. 16]: [As, this, realization, set, in, ,, the, demand, for, tulips, collapsed, ,, and, prices, plummeted, .]

(ROOT

(S

(SBAR (IN As)

(S

(NP (DT this) (NN realization))

(VP (VBD set)

(PRT (RP in)))))

(, ,)

(S

(NP

(NP (DT the) (NN demand))

(PP (IN for)

(NP (NNS tulips))))

(VP (VBD collapsed)))

(, ,)

(CC and)

(S

(NP (NNS prices))

(VP (VBD plummeted)))

(. .)))

det(realization-3, this-2)

mark(set-4, As-1)

nsubj(realization-3, set-4)

prt(set-4, in-5)

advmod(collapsed-11, set-4)

det(demand-8, the-7)

nsubj(collapsed-11, demand-8)

prep\_for(demand-8, tulips-10)

nsubj(plummeted-15, prices-14)

conj\_and(collapsed-11, plummeted-15)

Parsing [sent. 32 len. 5]: [The, speculative, bubble, burst, .]

(ROOT

(S

(NP (DT The) (JJ speculative) (NN bubble))

(VP (VB burst))

(. .)))

det(bubble-3, The-1)

amod(bubble-3, speculative-2)

nsubj(burst-4, bubble-3)

Parsing [sent. 33 len. 40]: [Some, were, left, holding, contracts, to, purchase, tulips, at, prices, now, ten, times, greater, than, those, on, the, open, market, ,, while, others, found, themselves, in, possession, of, bulbs, now, worth, a, fraction, of, the, price, they, had, paid, .]

(ROOT

(S

(NP (DT Some))

(VP (VBD were)

(VP (VBN left)

(S

(VP (VBG holding)

(NP (NNS contracts))

(S

(VP (TO to)

(VP (VB purchase)

(NP (NNS tulips))

(PP (IN at)

(NP (NP (NNS prices))

(ADVP (RB now))

(ADJP

(NP (CD ten) (NNS times))

(JJR greater)

(PP (IN than)

(NP

(NP (DT those))

(PP (IN on)

(NP (DT the) (JJ open) (NN market)))))))))))))))

(, ,)

(SBAR (IN while)

(S

(NP (NNS others))

(VP (VBD found)

(NP (PRP themselves))

(PP (IN in)

(NP

(NP (NN possession))

(PP (IN of)

(NP (NP (NNS bulbs))

(PP

(ADVP (RB now))

(IN worth)

(NP

(NP (DT a) (NN fraction))

(PP (IN of)

(NP

(NP (DT the) (NN price))

(SBAR

(S

(NP (PRP they))

(VP (VBD had)

(VP (VBN paid))))))))))))))))

(. .)))

nsubjpass(left-3, Some-1)

auxpass(left-3, were-2)

cop(left-3, were-2)

xcomp(left-3, holding-4)

dobj(holding-4, contracts-5)

aux(purchase-7, to-6)

xcomp(contracts-5, purchase-7)

dobj(purchase-7, tulips-8)

prep\_at(purchase-7, prices-10)

advmod(greater-14, now-11)

num(times-13, ten-12)

npadvmod(greater-14, times-13)

amod(prices-10, greater-14)

prep\_than(greater-14, those-16)

prep\_on(those-16, market-20)

det(market-20, the-18)

amod(market-20, open-19)

mark(found-24, while-22)

nsubj(found-24, others-23)

advcl(left-3, found-24)

dobj(found-24, themselves-25)

prep\_in(found-24, possession-27)

prep\_of(possession-27, bulbs-29)

advmod(worth-31, now-30)

det(fraction-33, a-32)

prep\_worth(bulbs-29, fraction-33)

det(price-36, the-35)

prep\_of(fraction-33, price-36)

nsubj(paid-39, they-37)

aux(paid-39, had-38)

rcmod(price-36, paid-39)

dobj(paid-39, price-36)

Parsing [sent. 34 len. 29]: [The, event, was, popularized, in, eighteen, forty-one, by, the, book, ``, Extraordinary, Popular, Delusions, and, the, Madness, of, Crowds, '', ,, that, a, British, journalist, Charles, Mackay, wrote, .]

(ROOT

(S

(NP (DT The) (NN event))

(VP (VBD was)

(VP (VBN popularized)

(PP (IN in)

(NP (CD eighteen)(CD forty-one)))

(PP (IN by)

(NP (NP (NP (DT the) (NN book))

(NP (NP (`` ``) (JJ Extraordinary) (JJ Popular) (NNS Delusions))

(CC and)

(NP (DT the) (NNP Madness) (IN of) (NNP Crowds) ('' ''))))

(, ,)

(SBAR (IN that)

(S

(NP (NP (DT a) (JJ British) (NN journalist)) (NP (NNP Charles) (NNP Mackay)))

(VP (VBD wrote))))))))

(. .)))

det(event-2, The-1)

nsubjpass(popularized-4, event-2)

auxpass(popularized-4, was-3)

num(forty-one-7, eighteen-6)

prep\_in(popularized-4, forty-one-7)

det(book-10, the-9)

agent(popularized-4, book-10)

amod(Delusions-14, Extraordinary-12)

amod(Delusions-14, Popular-13)

det(Madness-17, the-16)

prep\_of(Madness-17, Crowds-19)

conj\_and(Delusions-14, Crowds-19)

appos(book-10, Delusions-14)

ref(book-10, that-22)

rcmod(book-10, wrote-28)

dobj(wrote-28, book-10)

det(journalist-25, a-23)

amod(journalist-25, British-24)

appos(journalist-25, Mackay-27)

nn(Mackay-27, Charles-26)

nsubj(wrote-28, journalist-25)

Parsing [sent. 35 len. 25]: [That, crowds, of, people, often, behave, irrationally, was, the, main, thesis, of, the, book, ,, and, tulip, mania, was, one, of, the, primary, examples, .]

(ROOT

(S

(S

(SBAR (IN That)

(S

(NP (NP (NNS crowds))

(PP (IN of)

(NP (NNS people)))

(ADVP (RB often))

(VP (VBP behave)

(ADVP (RB irrationally))))))

(VP (VBD was)

(NP

(NP (DT the) (JJ main) (NN thesis))

(PP (IN of)

(NP (DT the) (NN book))))))

(, ,)

(CC and)

(S

(NP (NN tulip) (NN mania))

(VP (VBD was)

(NP

(NP (CD one))

(PP (IN of)

(NP (DT the) (JJ primary) (NNS examples))))))

(. .)))

complm(behave-6, That-1)

nsubj(behave-6, crowds-2)

prep\_of(crowds-2, people-4)

advmod(behave-6, often-5)

advmod(behave-6, irrationally-7)

csubj(thesis-11, behave-6)

cop(thesis-11, was-8)

det(thesis-11, the-9)

amod(thesis-11, main-10)

det(book-14, the-13)

prep\_of(thesis-11, book-14)

nn(mania-18, tulip-17)

nsubj(one-20, mania-18)

cop(one-20, was-19)

conj\_and(thesis-11, one-20)

det(examples-24, the-22)

amod(examples-24, primary-23)

prep\_of(one-20, examples-24)

Parsing [sent. 36 len. 19]: [According, to, Mackay, ,, at, one, point, twelve, acres, of, land, were, offered, for, a, Semper, Augustus, bulb, .]

(ROOT

(S

(PP (VBG According)

(PP (TO to)

(NP (NNP Mackay))))

(, ,)

(PP (IN at)

(NP (CD one) (NN point)))

(NP

(NP (CD twelve) (NNS acres))

(PP (IN of)

(NP (NN land))))

(VP (VBD were)

(VP (VBN offered)

(PP (IN for)

(NP (DT a) (FW Semper) (FW Augustus) (NN bulb)))))

(. .)))

prep\_according\_to(offered-13, Mackay-3)

num(point-7, one-6)

prep\_at(offered-13, point-7)

num(acres-9, twelve-8)

nsubjpass(offered-13, acres-9)

prep\_of(acres-9, land-11)

auxpass(offered-13, were-12)

det(bulb-18, a-15)

nn(bulb-18, Semper-16)

nn(bulb-18, Augustus-17)

prep\_for(offered-13, bulb-18)

Parsing [sent. 37 len. 23]: [He, claims, that, many, such, investors, ruined, by, the, fall, in, prices, were, desperate, ,, and, Dutch, commerce, suffered, a, severe, shock, .]

(ROOT

(S

(S

(NP (PRP He))

(VP (VBZ claims)

(SBAR (IN that)

(S

(NP

(NP (JJ many) (JJ such) (NNS investors))

(VP (VBN ruined)

(PP (IN by)

(NP

(NP (DT the) (NN fall))

(PP (IN in)

(NP (NNS prices)))))))

(VP (VBD were)

(ADJP (JJ desperate))))

(, ,)

(CC and)

(S

(NP (JJ Dutch) (NN commerce))

(VP (VBD suffered)

(NP (DT a) (JJ severe) (NN shock)))))))

(. .)))

nsubj(claims-2, He-1)

complm(desperate-14, that-3)

complm(suffered-19 , that-3)

amod(investors-6, many-4)

amod(investors-6, such-5)

nsubj(desperate-14, investors-6)

partmod(investors-6, ruined-7)

det(fall-10, the-9)

agent(ruined-7, fall-10)

prep\_in(fall-10, prices-12)

cop(desperate-14, were-13)

ccomp(claims-2, desperate-14)

amod(commerce-18, Dutch-17)

nsubj(suffered-19, commerce-18)

ccomp(claims-2, suffered-19)

conj\_and(desperate-14, suffered-19)

det(shock-22, a-20)

amod(shock-22, severe-21)

dobj(suffered-19, shock-22)

Parsing [sent. 38 len. 46]: [In, Mackay, 's, account, ,, the, panicked, tulip, speculators, sought, help, from, the, government, of, the, Netherlands, ,, which, responded, by, declaring, that, anyone, who, had, bought, contracts, to, purchase, bulbs, in, the, future, could, void, their, contract, by, payment, of, a, ten, percent, fee, .]

(ROOT

(S

(PP (IN In)

(NP

(NP (NNP Mackay) (POS 's))

(NN account)))

(, ,)

(NP (DT the) (JJ panicked) (NN tulip) (NNS speculators))

(VP (VBD sought)

(NP (NP (NN help))

(PP (IN from)

(NP

(NP (DT the) (NN government))

(PP (IN of)

(NP (DT the) (NNPS Netherlands)))

(, ,)

(SBAR

(WHNP (WDT which))

(S

(VP (VBD responded)

(PP (IN by)

(S

(VP (VBG declaring)

(SBAR (IN that)

(S

(NP

(NP (NN anyone))

(SBAR

(WHNP (WP who))

(S

(VP (VBD had)

(VP (VBN bought)

(NP (NNS contracts))

(S

(VP (TO to)

(VP (VB purchase)

(NP (NNS bulbs))

(PP (IN in)

(NP (DT the) (NN future)))))))))))

(VP (MD could)

(VP (VB void)

(NP (PRP$ their) (NN contract))

(PP (IN by)

(NP

(NP (NN payment))

(PP (IN of)

(NP (DT a) (CD ten) (NN percent) (NN fee)))))))))))))))))))

(. .)))

poss(account-4, Mackay-2)

prep\_in(sought-10, account-4)

det(speculators-9, the-6)

amod(speculators-9, panicked-7)

nn(speculators-9, tulip-8)

nsubj(sought-10, speculators-9)

dobj(sought-10, help-11)

det(government-14, the-13)

prep\_from(help-11, government-14)

nsubj(responded-20, government-14)

det(Netherlands-17, the-16)

prep\_of(government-14, Netherlands-17)

rcmod(government-14, responded-20)

prepc\_by(responded-20, declaring-22)

complm(void-36, that-23)

nsubj(bought-27, anyone-24)

nsubj(void-36, anyone-24)

aux(bought-27, had-26)

rcmod(anyone-24, bought-27)

dobj(bought-27, contracts-28)

aux(purchase-30, to-29)

xcomp(contracts-28, purchase-30)

dobj(purchase-30, bulbs-31)

det(future-34, the-33)

prep\_in(purchase-30, future-34)

aux(void-36, could-35)

ccomp(declaring-22, void-36)

poss(contract-38, their-37)

dobj(void-36, contract-38)

prep\_by(void-36, payment-40)

det(fee-45, a-42)

num(fee-45, ten-43)

nn(fee-45, percent-44)

prep\_of(payment-40, fee-45)

Parsing [sent. 39 len. 17]: [Attempts, that, were, made, to, resolve, the, situation, to, the, satisfaction, of, all, parties, were, unsuccessful, .]

(ROOT

(S

(NP

(NP (NNS Attempts))

(SBAR

(WHNP (WDT that))

(S

(VP (VBD were)

(VP (VBN made)

(S

(VP (TO to)

(VP (VB resolve)

(NP (DT the) (NN situation))

(PP (TO to)

(NP

(NP (DT the) (NN satisfaction))

(PP (IN of)

(NP (DT all) (NNS parties)))))))))))))

(VP (VBD were)

(ADJP (JJ unsuccessful)))

(. .)))

nsubjpass(made-4, Attempts-1)

nsubj(unsuccessful-16, Attempts-1)

auxpass(made-4, were-3)

rcmod(Attempts-1, made-4)

aux(resolve-6, to-5)

xcomp(made-4, resolve-6)

det(situation-8, the-7)

dobj(resolve-6, situation-8)

det(satisfaction-11, the-10)

prep\_to(resolve-6, satisfaction-11)

det(parties-14, all-13)

prep\_of(satisfaction-11, parties-14)

cop(unsuccessful-16, were-15)

Parsing [sent. 40 len. 23]: [The, mania, finally, ended, ,, Mackay, says, ,, with, individuals, stuck, with, the, bulbs, they, held, at, the, end, of, the, crash, .]

(ROOT

(S

(S

(NP (DT The) (NN mania))

(ADVP (RB finally))

(VP (VBD ended)))

(, ,)

(PRN (NP (NNP Mackay))

(VP (VBZ says) (, ,)))

(PP (IN with)

(NP

(NP (NNS individuals))

(VP (VBN stuck)

(PP (IN with)

(NP

(NP (DT the) (NNS bulbs))

(SBAR

(S

(NP (PRP they))

(VP (VBD held)

(PP (IN at)

(NP

(NP (DT the) (NN end))

(PP (IN of)

(NP (DT the) (NN crash)))))))))))))

(. .)))

det(mania-2, The-1)

nsubj(ended-4, mania-2)

advmod(ended-4, finally-3)

ccomp(says-7, ended-4)

nsubj(says-7, Mackay-6)

prep\_with(ended-7, individuals-10)

partmod(individuals-10, stuck-11)

det(bulbs-14, the-13)

prep\_with(stuck-11, bulbs-14)

dobj(held-16, bulbs-14)

nsubj(held-16, they-15)

rcmod(bulbs-14, held-16)

det(end-19, the-18)

prep\_at(held-16, end-19)

det(crash-22, the-21)

prep\_of(end-19, crash-22)

Parsing [sent. 41 len. 26]: [No, court, would, enforce, payment, of, a, contract, ,, since, judges, regarded, the, debts, as, contracted, through, gambling, ,, and, thus, not, enforceable, by, law, .]

(ROOT

(S

(NP (DT No) (NN court))

(VP (MD would)

(VP (VB enforce)

(NP

(NP (NN payment))

(PP (IN of)

(NP (DT a) (NN contract))))

(, ,)

(SBAR (IN since)

(S

(NP (NNS judges))

(VP (VBD regarded)

(NP (DT the) (NNS debts))

(PP (IN as)

(UCP

(VP (VBD contracted)

(PP (IN through)

(NP (NN gambling))))

(, ,)

(CC and)

(RB thus)

(ADJP (ADJP (RB not) (JJ enforceable))

(PP (IN by)

(NP (NN law)))))))))))

(. .)))

det(court-2, No-1)

nsubj(enforce-4, court-2)

aux(enforce-4, would-3)

dobj(enforce-4, payment-5)

det(contract-8, a-7)

prep\_of(payment-5, contract-8)

mark(regarded-12, since-10)

nsubj(regarded-12, judges-11)

advcl(enforce-4, regarded-12)

det(debts-14, the-13)

dobj(regarded-12, debts-14)

prepc\_as(regarded-12, contracted-16)

prep\_through(contracted-16, gambling-18)

dep(contracted-16, thus-21)

conj\_and(contracted-16, enforceable-23)

neg(enforceable-23, not-22)

prep\_by(enforceable-23, law-25)

Parsing [sent. 42 len. 20]: [Although, Mackay, 's, book, is, a, classic, that, many, publishing, houses, continue, reprinting, today, ,, his, account, is, contested, .]

(ROOT

(S

(SBAR (IN Although)

(S

(NP

(NP (NNP Mackay) (POS 's))

(NN book))

(VP (VBZ is)

(NP (DT a) (JJ classic))

(SBAR (IN that)

(S

(NP (JJ many) (NN publishing) (NNS houses))

(VP (VBP continue)

(S (VP (VBG reprinting)))

(ADVP (NN today))))))))

(, ,)

(NP (PRP$ his) (NN account))

(VP (VBZ is)

(ADJP (VBN contested)))

(. .)))

mark(classic-7, Although-1)

poss(book-4, Mackay-2)

nsubj(classic-7, book-4)

cop(classic-7, is-5)

det(classic-7, a-6)

advcl(contested-19, classic-7)

rcmod(classic-7, continue-12)

amod(houses-11, many-9)

nn(houses-11, publishing-10)

nsubj(continue-12, houses-11)

ccomp(continue-12, reprinting-13)

dobj(reprinting-13, classic-7)

tmod(continue-12, today-14)

poss(account-17, his-16)

nsubjpass(contested-19, account-17)

auxpass(contested-19, is-18)

Parsing [sent. 43 len. 28]: [Many, modern, scholars, believe, the, mania, was, not, as, extraordinary, as, Mackay, described, ,, with, some, arguing, that, the, price, changes, may, not, have, constituted, a, bubble, .]

(ROOT

(S

(NP (JJ Many) (JJ modern) (NNS scholars))

(VP (VBP believe)

(SBAR

(S

(NP (DT the) (NN mania))

(VP (VBD was) (RB not)

(ADJP (RB as) (JJ extraordinary))

(SBAR (IN as)

(S

(NP (NNP Mackay))

(VP (VBD described)))))))

(, ,)

(PP (IN with)

(S

(NP (DT some))

(VP (VBG arguing)

(SBAR (IN that)

(S

(NP (DT the) (NN price) (NNS changes))

(VP (MD may) (RB not)

(VP (VB have)

(VP (VBN constituted)

(NP (DT a) (NN bubble)))))))))))

(. .)))

amod(scholars-3, Many-1)

amod(scholars-3, modern-2)

nsubj(believe-4, scholars-3)

det(mania-6, the-5)

nsubj(extraordinary-10, mania-6)

cop(extraordinary-10, was-7)

neg(extraordinary-10, not-8)

advmod(extraordinary-10, as-9)

ccomp(believe-4, extraordinary-10)

mark(described-13, as-11)

nsubj(described-13, Mackay-12)

advcl(extraordinary-10, described-13)

nsubj(arguing-17, some-16)

prepc\_with(believe-4, arguing-17)

complm(constituted-25, that-18)

det(changes-21, the-19)

nn(changes-21, price-20)

nsubj(constituted-25, changes-21)

aux(constituted-25, may-22)

neg(constituted-25, not-23)

aux(constituted-25, have-24)

ccomp(arguing-17, constituted-25)

det(bubble-27, a-26)

dobj(constituted-25, bubble-27)

Parsing [sent. 44 len. 17]: [Research, on, the, tulip, mania, is, difficult, because, of, the, limited, data, from, the, sixteen, thirties, .]

(ROOT

(S

(NP

(NP (NNP Research))

(PP (IN on)

(NP (DT the) (NN tulip) (NN mania))))

(VP (VBZ is)

(ADJP (JJ difficult)

(PP (RB because) (IN of)

(NP (NP (DT the) (VBN limited) (NNS data))

(PP (IN from)

(NP (DT the) (NN sixteen) (NNS thirties)))))))

(. .)))

nsubj(difficult-7, Research-1)

det(mania-5, the-3)

nn(mania-5, tulip-4)

prep\_on(Research-1, mania-5)

cop(difficult-7, is-6)

det(data-12, the-10)

amod(data-12, limited-11)

prep\_because\_of(difficult-7, data-12)

det(thirties-16, the-14)

nn(thirties-16, sixteen-15)

prep\_from(data-12, thirties-16)

Parsing [sent. 45 len. 24]: [However, ,, some, modern, economists, have, proposed, rational, explanations, ,, rather, than, a, speculative, mania, ,, for, the, rise, and, fall, in, prices, .]

(ROOT

(S

(ADVP (RB However))

(, ,)

(NP (DT some) (JJ modern) (NNS economists))

(VP (VBP have)

(VP (VBN proposed)

(NP

(NP

(NP (JJ rational) (NNS explanations))

(, ,)

(CONJP (RB rather) (IN than))

(NP (DT a) (JJ speculative) (NN mania))

(, ,))

(PP (IN for)

(NP

(NP (DT the) (NN rise)

(CC and)

(NN fall))

(PP (IN in)

(NP (NNS prices))))))))

(. .)))

advmod(proposed-7, However-1)

det(economists-5, some-3)

amod(economists-5, modern-4)

nsubj(proposed-7, economists-5)

aux(proposed-7, have-6)

amod(explanations-9, rational-8)

dobj(proposed-7, explanations-9)

det(mania-15, a-13)

amod(mania-15, speculative-14)

dobj(proposed-7, mania-15)

conj\_negcc(explanations-9, mania-15)

det(rise-19, the-18)

prep\_for(explanations-9, rise-19)

prep\_for(explanations-9, fall-21)

conj\_and(rise-19, fall-21)

prep\_in(rise-19, prices-23)

Parsing [sent. 46 len. 26]: [For, example, ,, other, flowers, ,, such, as, the, hyacinth, ,, also, had, high, prices, on, the, flower, 's, introduction, ,, which, then, fell, dramatically, .]

(ROOT

(S

(PP (IN For)

(NP (NN example)))

(, ,)

(NP

(NP (JJ other) (NNS flowers))

(, ,)

(PP (JJ such) (IN as)

(NP (DT the) (NN hyacinth)))

(, ,))

(ADVP (RB also))

(VP (VBD had)

(NP

(NP (JJ high) (NNS prices))

(PP (IN on)

(NP

(NP (DT the) (NN flower) (POS 's))

(NN introduction)))

(, ,)

(SBAR

(WHNP (WDT which))

(S

(ADVP (RB then))

(VP (VBD fell)

(ADVP (RB dramatically)))))))

(. .)))

prep\_for(had-13, example-2)

amod(flowers-5, other-4)

nsubj(had-13, flowers-5)

det(hyacinth-10, the-9)

prep\_such\_as(flowers-5, hyacinth-10)

advmod(had-13, also-12)

amod(prices-15, high-14)

dobj(had-13, prices-15)

det(flower-18, the-17)

poss(introduction-20, flower-18)

prep\_on(prices-15, introduction-20)

nsubj(fell-24, prices-15)

advmod(fell-24, then-23)

rcmod(prices-15, fell-24)

advmod(fell-24, dramatically-25)

Parsing [sent. 47 len. 31]: [The, high, prices, may, also, have, been, driven, by, expectations, of, a, parliamentary, decree, that, contracts, could, be, voided, for, a, small, cost, ,, thus, lowering, the, risk, to, buyers, .]

(ROOT

(S

(NP (DT The) (JJ high) (NNS prices))

(VP (MD may)

(ADVP (RB also))

(VP (VB have)

(VP (VBN been)

(VP (VBN driven)

(PP (IN by)

(NP

(NP (NNS expectations))

(PP (IN of)

(NP (NP (DT a) (JJ parliamentary) (NN decree))

(SBAR (IN that)

(S

(NP (NNS contracts))

(VP (MD could)

(VP (VB be)

(VP (VBN voided)

(PP (IN for)

(NP (DT a) (JJ small) (NN cost)))

(, ,)

(S

(ADVP (RB thus))

(VP (VBG lowering)

(NP (NP (DT the) (NN risk))

(PP (TO to)

(NP (NNS buyers)))))))))))))))))))

(. .)))

det(prices-3, The-1)

amod(prices-3, high-2)

nsubjpass(driven-8, prices-3)

aux(driven-8, may-4)

advmod(driven-8, also-5)

aux(driven-8, have-6)

auxpass(driven-8, been-7)

agent(driven-8, expectations-10)

det(decree-14, a-12)

amod(decree-14, parliamentary-13)

prep\_of(expectations-10, decree-14)

complm(voided-19, that-15)

nsubjpass(voided-19, contracts-16)

aux(voided-19, could-17)

auxpass(voided-19, be-18)

ccomp(decree-14, voided-19)

det(cost-23, a-21)

amod(cost-23, small-22)

prep\_for(voided-19, cost-23)

advmod(lowering-26, thus-25)

partmod(voided-19, lowering-26)

det(risk-28, the-27)

dobj(lowering-26, risk-28)

prep\_to(risk-28, buyers-30)

Parsing [sent. 48 len. 40]: [Despite, these, disagreements, about, whether, the, phenomenon, technically, constituted, an, economic, bubble, ,, the, term, ``, tulip, mania, '', is, still, often, used, metaphorically, to, refer, to, any, large, economic, bubble, ,, when, asset, prices, deviate, from, intrinsic, values, .]

(ROOT

(S

(PP (IN Despite)

(NP

(NP (DT these) (NNS disagreements))

(PP (IN about)

(SBAR (IN whether)

(S

(NP (DT the) (NN phenomenon))

(ADVP (RB technically))

(VP (VBD constituted)

(NP (DT an) (JJ economic) (NN bubble))))))))

(, ,)

(NP

(NP (DT the) (NN term))

(`` ``)

(NP (NN tulip) (NN mania))

('' ''))

(VP (VBZ is)

(ADVP (RB still))

(VP

(ADVP (RB often))

(VBN used)

(ADVP (RB metaphorically))

(S

(VP (TO to)

(VP (VB refer)

(PP (TO to)

(NP

(NP (DT any) (JJ large) (JJ economic) (NN bubble))

(, ,)

(SBAR

(WHADVP (WRB when))

(S

(NP (NN asset) (NNS prices))

(VP (VB deviate)

(PP (IN from)

(NP (JJ intrinsic) (NNS values)))))))))))))

(. .)))

det(disagreements-3, these-2)

prep\_despite(used-23, disagreements-3)

complm(constituted-9, whether-5)

det(phenomenon-7, the-6)

nsubj(constituted-9, phenomenon-7)

advmod(constituted-9, technically-8)

prepc\_about(disagreements-3, constituted-9)

det(bubble-12, an-10)

amod(bubble-12, economic-11)

dobj(constituted-9, bubble-12)

det(term-15, the-14)

nsubjpass(used-23, term-15)

xsubj(refer-26, term-15)

nn(mania-18, tulip-17)

dep(term-15, mania-18)

auxpass(used-23, is-20)

advmod(used-23, still-21)

advmod(used-23, often-22)

advmod(used-23, metaphorically-24)

aux(refer-26, to-25)

xcomp(used-23, refer-26)

det(bubble-31, any-28)

amod(bubble-31, large-29)

amod(bubble-31, economic-30)

prep\_to(refer-26, bubble-31)

tmod(deviate-36, bubble-31)

advmod(deviate-36, when-33)

nn(prices-35, asset-34)

nsubj(deviate-36, prices-35)

dep(bubble-31, deviate-36)

amod(values-39, intrinsic-38)

prep\_from(deviate-36, values-39)

Parsed file: ../stories\_jan26\_2011\_final/Story9\_finalized.txt [48 sentences].

Parsed 1185 words in 48 sentences (28.49 wds/sec; 1.15 sents/sec).

egibson-2:stanford-parser-2010-11-30 egibson$