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Appendixes to *A PC-PATR Implementation of GB Syntax*

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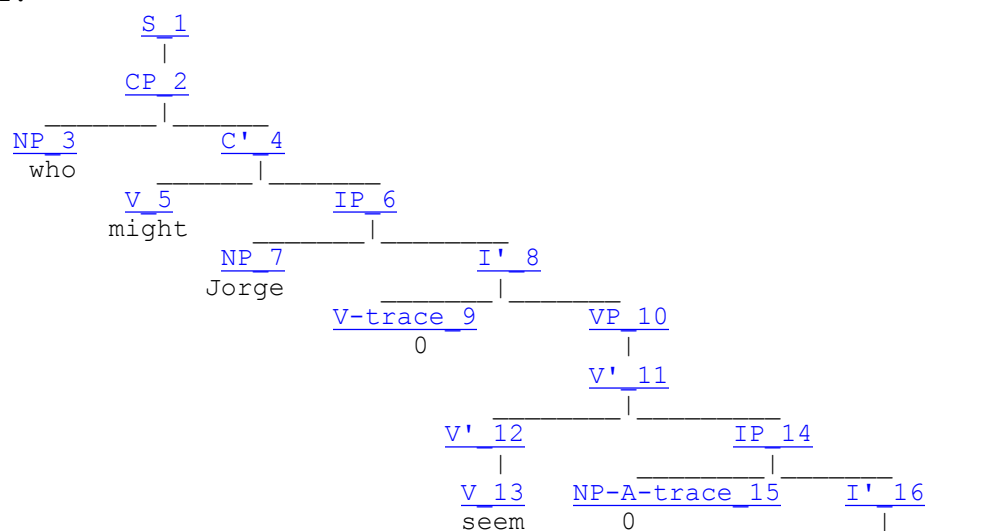
Appendix A: Two Examples

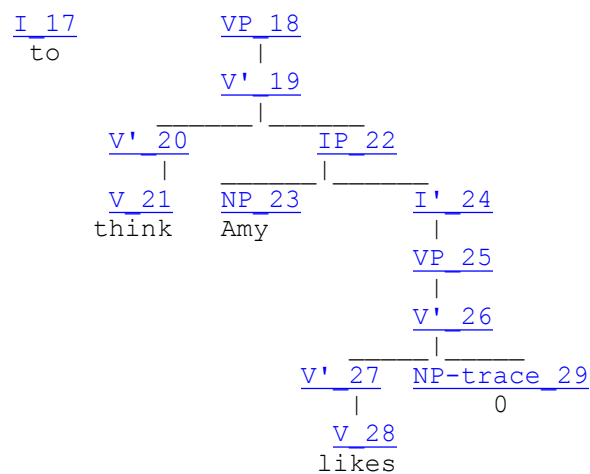
1. Who might Jorge seem to think Amy likes?

The program produces the following output for the input:

who might Jorge seem to think Amy likes

1:





S_1:
[_cat: S]

CP_2:
[_cat: CP
moved: [A-bar: none]
type: [fin: +
q: +
root: +
wh: +]]

NP_3:
[_cat: NP
agr: [case: accusative
number:sg
person:3rd]
gloss: who
lex: who
type: [anaphor:-
animate:+
pred: -
wh: +]]

C'_4:
[_cat: C'
moved: [A: none
A-bar: [first: [cat: NP
agr: [case: accusative]
role: Theme
type: [pred: -]]
rest: none]
head: none]
type: [fin: +
q: +
root: +]]

V_5:
[_cat: V
agr: [vform: bare]
gloss: might
lex: might
moved: [A: none
A-bar: none]
subcat: [comp: [first: [cat: VP
agr: [person:irrelevant
vform: bare]
role: Event
type: [modal: -]]]

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                                rest: none ]
      subj: none ]
type:  [ aux:  +
        bel:  -
        have: -
        modal: +
        passive:- ] ]

IP_6:
[ cat:  IP
  agr:  $2[ case:  nominative
            gender:masc
            number:sg
            person:3rd ]

  moved:  [ A:      none
            A-bar: $1[ first:  [ cat:  NP
                                agr:  [ case:  accusative ]
                                role:  Theme
                                type:  [ pred:  - ] ]
                                rest: none ]
            head:  [ cat:  V
                    type:  [ aux:  +
                              fin:  +
                              q:    + ] ] ]

  subcat:  [ comp:  [ first:  [ cat:  VP
                                agr:  [person:irrelevant
                                       vform: bare ]
                                bind: [ agr:  [ gender:masc
                                                number:sg
                                                person:3rd ] ]
                                moved:[ A:      [ first: [ cat:  NP
                                                            agr:  $2
                                                            gloss: Jorge
                                                            lex:  Jorge
                                                            role:  Agent
                                                            type:  [ anaphor:-
                                                                    animate:+
                                                                    pred:  -
                                                                    wh:    - ] ]
                                                            rest: none ]
                                A-bar: $1 ]
                                subcat:  [ comp:  none
                                          subj:  none ]
                                type:  [ aux:  -
                                       passive:- ] ] ] ]

type:  [ fin:  +
        q:    +
        root: + ] ]

NP_7:
[ cat:  NP
  agr:  [ case:  nominative
            gender:masc
            number:sg
            person:3rd ]

  gloss: Jorge
  lex:  Jorge
  type:  [ anaphor:-
            animate:+
            pred:  -
            wh:    - ] ]

I'_8:
[ cat:  I'
  moved:  [ A:      $3[ first:  [ cat:  NP

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                                role: Agent
                                type:  [ animate:+
                                          pred:  - ] ]
                                rest: none ]
A-bar: $2[ first:  [ cat:  NP
                   agr:  [ case: accusative ]
                   role: Theme
                   type:  [ pred:  - ] ]
                                rest: none ]
head:  [ cat:  V
        type:  [ aux:  +
                  fin:  +
                  q:    + ] ] ]
subcat: [ comp:  [ first:  [ cat:  VP
                           agr:  [ person:irrelevant
                                  vform: bare ]
                           moved: [ A:      $3
                                  A-bar: $2 ]
                           subcat: [ comp: none
                                  subj: none ]
                           type:  [ aux:  -
                                  passive:- ] ] ]
                                subj: none ]
type:  [ fin:  +
        q:    +
        root: + ] ]

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V-trace_9:
[ cat:  V-trace
  type:  [ null:  + ] ]

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VP_10:
[ cat:  VP
  agr:  [ person:irrelevant
        vform: bare ]
  moved: [ A:      [ first:  [ cat:  NP
                              role: Agent
                              type:  [ animate:+
                                      pred:  - ] ]
                                rest: none ]
        A-bar:  [ first:  [ cat:  NP
                           agr:  [ case: accusative ]
                           role: Theme
                           type:  [ pred:  - ] ]
                                rest: none ] ]
  subcat: [ comp: none
           subj: none ]
  type:  [ aux:  -
          passive:- ] ]

```

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V'_11:
[ cat:  V'
  agr:  [ person:irrelevant
        vform: bare ]
  moved: [ A:      [ first:  [ cat:  NP
                              role: Agent
                              type:  [ animate:+
                                      pred:  - ] ]
                                rest: none ]
        A-bar:  [ first:  [ cat:  NP
                           agr:  [ case: accusative ]
                           role: Theme
                           type:  [ pred:  - ] ]
                                rest: none ] ]
  subcat: [ comp: none

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      subj: none ]
type:  [ aux:  -
        passive:- ] ]

V'_12:
[ cat:  V'
  agr:   [ person:irrelevant
          vform: bare ]
  moved: [ A:      none
          A-bar: none ]
  subcat: [ comp:    [ first:    [ cat:  IP
                                role:  Proposition
                                type:   [ fin:  -
                                          q:    -
                                          raising: +
                                          root:  - ] ]
                                rest: none ]
  type:   [ subj: none ]
          [ aux:  -
            passive:- ] ]

V_13:
[ cat:  V
  agr:   [ person:irrelevant
          vform: bare ]
  gloss: seem
  lex:   seem
  moved: [ A:      none
          A-bar: none ]
  subcat: [ comp:    [ first:    [ cat:  IP
                                role:  Proposition
                                type:   [ fin:  -
                                          q:    -
                                          raising: +
                                          root:  - ] ]
                                rest: none ]
  type:   [ subj: none ]
          [ aux:  -
            passive:- ] ]

IP_14:
[ cat:  IP
  moved: [ A:      [ first:    [ cat:  NP
                                role:  Agent
                                type:   [ animate: +
                                          pred:  - ] ]
                                rest: none ]
          A-bar:  [ first:    [ cat:  NP
                                agr:   [ case:  accusative ]
                                role:  Theme
                                type:   [ pred:  - ] ]
                                rest: none ] ]
  subcat: [ subj: none ]
  type:   [ fin:  -
          q:    -
          raising: +
          root:  - ] ]

NP-A-trace_15:
[ cat:  NP-A-trace
  type:  [ null:  + ] ]

I'_16:
[ cat:  I'
  moved: [ A:      none

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      A-bar:  [ first:  [ cat:  NP
                        agr:    [ case:  accusative ]
                        role:  Theme
                        type:    [ pred:  - ] ]
                rest:  none ] ]
subcat:  [ comp:  none
          subj:    [ first:  [ cat:  NP
                            role:  Agent
                            type:    [ animate:+
                                      pred:  - ] ]
                rest:  none ] ]
type:    [ fin:  -
          q:    - ] ]

I_17:
[ cat:  I
  gloss: to.I
  lex:  to
  type:  [ fin:  - ] ]

VP_18:
[ cat:  VP
  agr:    [ person:irrelevant
            vform: bare ]
  moved:  [ A:  none
            A-bar:  [ first:  [ cat:  NP
                              agr:    [ case:  accusative ]
                              role:  Theme
                              type:    [ pred:  - ] ]
                    rest:  none ] ]
  subcat:  [ comp:  none
            subj:    [ first:  [ cat:  NP
                              role:  Agent
                              type:    [ animate:+
                                        pred:  - ] ]
                    rest:  none ] ]
  type:    [ aux:  -
            passive:- ] ]

V'_19:
[ cat:  V'
  agr:    [ person:irrelevant
            vform: bare ]
  moved:  [ A:  none
            A-bar:  [ first:  [ cat:  NP
                              agr:    [ case:  accusative ]
                              role:  Theme
                              type:    [ pred:  - ] ]
                    rest:  none ] ]
  subcat:  [ comp:  none
            subj:    [ first:  [ cat:  NP
                              role:  Agent
                              type:    [ animate:+
                                        pred:  - ] ]
                    rest:  none ] ]
  type:    [ aux:  -
            passive:- ] ]

V'_20:
[ cat:  V'
  agr:    [ person:irrelevant
            vform: bare ]
  moved:  [ A:  none
            A-bar: none ]
  subcat:  [ comp:  [ first:  [ cat:  IP

```

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                                role: Proposition
                                type:  [ fin:  +
                                          q:    -
                                          root: - ] ]
                                rest: none ]
    subj:  [ first:  [ cat:  NP
                      role: Agent
                      type:  [ animate:+
                              pred: - ] ]
                                rest: none ] ]
    type:  [ aux:    -
            passive:- ] ]

V_21:
[ cat:  V
  agr:  [ person:irrelevant
          vform: bare ]
  gloss: think
  lex:  think
  moved: [ A:      none
            A-bar: none ]
  subcat: [ comp:    [ first:  [ cat:  IP
                                role: Proposition
                                type:  [ fin:  +
                                          q:    -
                                          root: - ] ]
                                rest: none ]
            subj:  [ first:  [ cat:  NP
                              role: Agent
                              type:  [ animate:+
                                      pred: - ] ]
                                rest: none ] ]
            type:  [ aux:    -
                    passive:- ] ]

IP_22:
[ cat:  IP
  moved: [ A:      none
            A-bar:  [ first:  [ cat:  NP
                              agr:  [ case: accusative ]
                              role: Theme
                              type:  [ pred: - ] ]
                                rest: none ] ]
            subcat: [ subj: none ]
            type:  [ fin:  +
                    root: - ] ]

NP_23:
[ cat:  NP
  agr:  [ case: nominative
          gender:fem
          number:sg
          person:3rd ]
  gloss: Amy
  lex:  Amy
  type:  [ anaphor:-
          animate:+
          pred: -
          wh:    - ] ]

I'_24:
[ cat:  I'
  agr:  [ number:sg
          person:3rd
          vform: pres ]

```

```

moved:  [ A-bar:  [ first:  [ cat:  NP
                           agr:  [ case:  accusative ]
                           role:  Theme
                           type:  [ pred:  - ] ]
                           rest:  none ] ]
subcat:  [ comp:  none
          subj:  [ first:  [ cat:  NP
                           role:  Agent
                           type:  [ animate:+
                                   pred:  - ] ]
                           rest:  none ] ]
type:  [ fin:  +
        root:  - ] ]

VP_25:
[ cat:  VP
  agr:  [ number:sg
        person:3rd
        vform: pres ]
moved:  [ A-bar:  [ first:  [ cat:  NP
                           agr:  [ case:  accusative ]
                           role:  Theme
                           type:  [ pred:  - ] ]
                           rest:  none ] ]
subcat:  [ comp:  none
          subj:  [ first:  [ cat:  NP
                           role:  Agent
                           type:  [ animate:+
                                   pred:  - ] ]
                           rest:  none ] ]
type:  [ aux:  -
        passive:- ] ]

V'_26:
[ cat:  V'
  agr:  [ number:sg
        person:3rd
        vform: pres ]
moved:  [ A-bar:  [ first:  [ cat:  NP
                           agr:  [ case:  accusative ]
                           role:  Theme
                           type:  [ pred:  - ] ]
                           rest:  none ] ]
subcat:  [ comp:  none
          subj:  [ first:  [ cat:  NP
                           role:  Agent
                           type:  [ animate:+
                                   pred:  - ] ]
                           rest:  none ] ]
type:  [ aux:  -
        passive:- ] ]

V'_27:
[ cat:  V'
  agr:  [ number:sg
        person:3rd
        vform: pres ]
moved:  [ A:  none
        A-bar: none ]
subcat:  [ comp:  [ first:  [ cat:  NP
                           role:  Theme
                           type:  [ pred:  - ] ]
                           rest:  none ]
          subj:  [ first:  [ cat:  NP
                           role:  Agent

```



```

                                type:      [ animate:+
                                              pred:  - ] ]
                                rest: none ] ]
type:      [ aux:      -
            passive:- ] ]

V_28:
[ cat:      V
  agr:      [ number:sg
             person:3rd
             vform: pres ]
  gloss: likes
  lex:      likes
  moved:    [ A:      none
             A-bar: none ]
  subcat:   [ comp:    [ first:   [ cat:      NP
                                   role:      Theme
                                   type:      [ pred:  - ] ]
                                   rest: none ]
            subj:    [ first:   [ cat:      NP
                                   role:      Agent
                                   type:      [ animate:+
                                               pred:  - ] ]
                                   rest: none ] ] ]
  type:      [ aux:      -
            passive:- ] ]

```

```

NP-trace_29:
[ cat:      NP-trace
  type:      [ null:  + ] ]

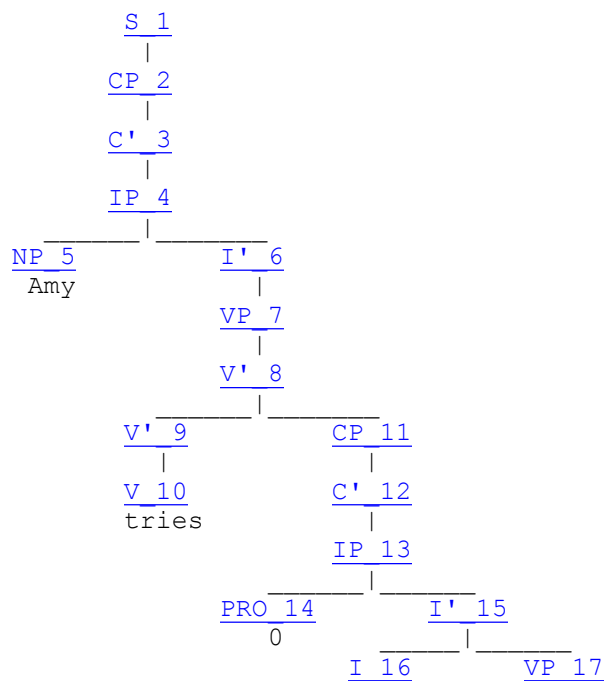
```

1 parse found

2. Amy tries to like herself.

The program produces the following output for the input:

Amy tries to like herself



to

```

      |
      | V' 18
      | |
      | | V' 19 | NP 21
      | | |      |
      | | | V 20 | herself
      | | | like

```

S_1:
[cat: S]

CP_2:
[cat: CP
moved: [A: none
A-bar: none
head: none]
type: [fin: +
q: -
root: +
wh: -]]

C'_3:
[cat: C'
moved: [A: none
A-bar: none]
type: [fin: +
q: -
root: +]]

IP_4:
[cat: IP
moved: [A: none
A-bar: none]
subcat: [subj: none]
type: [fin: +
q: -
root: +]]

NP_5:
[cat: NP
agr: [case: nominative
gender:fem
number:sg
person:3rd]
gloss: Amy
lex: Amy
type: [anaphor:-
animate:+
pred: -
wh: -]]

I'_6:
[cat: I'
agr: [number:sg
person:3rd
vform: pres]
bind: [agr: [gender:fem
number:sg
person:3rd]]
moved: [A: none
A-bar: none]
subcat: [comp: none
subj: [first: [cat: NP
role: Agent
type: [animate:+

```

                                pred:  - ] ]
                                rest: none ] ]
type:  [ fin:  +
        q:    -
        root: + ] ]

VP_7:
[ _cat:  VP
  agr:   [ number:sg
          person:3rd
          vform: pres ]
  bind:  [ agr:      [ gender:fem
                    number:sg
                    person:3rd ] ]
  moved: [ A:        none
          A-bar: none ]
  subcat: [ comp: none
           subj:  [ first:  [ cat:  NP
                           role: Agent
                           type:  [ animate:+
                                   pred: - ] ]
           rest: none ] ]
type:  [ aux:  -
        passive:- ] ]

V'_8:
[ _cat:  V'
  agr:   [ number:sg
          person:3rd
          vform: pres ]
  bind:  [ agr:      [ gender:fem
                    number:sg
                    person:3rd ] ]
  moved: [ A:        none
          A-bar: none ]
  subcat: [ comp: none
           subj:  [ first:  [ cat:  NP
                           role: Agent
                           type:  [ animate:+
                                   pred: - ] ]
           rest: none ] ]
type:  [ aux:  -
        passive:- ] ]

V'_9:
[ _cat:  V'
  agr:   [ number:sg
          person:3rd
          vform: pres ]
  moved: [ A:        none
          A-bar: none ]
  subcat: [ comp:      [ first:  [ cat:  CP
                                role: Proposition
                                type:  [ fin:  -
                                        q:    -
                                        raising:-
                                        root: - ] ]
                                rest: none ]
           subj:  [ first:  [ cat:  NP
                            role: Agent
                            type:  [ animate:+
                                    pred: - ] ]
           rest: none ] ]
type:  [ aux:  -
        passive:- ] ]

```

```

V_10:
[ cat:    V
  agr:     [ number:sg
            person:3rd
            vform: pres ]
  gloss:   tries
  lex:     tries
  moved:   [ A:      none
            A-bar: none ]
  subcat:  [ comp:    [ first:  [ cat:    CP
                                role:  Proposition
                                type:  [ fin:    -
                                        q:      -
                                        raising:-
                                        root:   - ] ]
                                rest:  none ]
            subj:    [ first:  [ cat:    NP
                                role:  Agent
                                type:  [ animate:+
                                        pred:  - ] ]
                                rest:  none ] ]
  type:    [ aux:    -
            passive:- ] ]

CP_11:
[ cat:    CP
  bind:   [ agr:     [ gender:fem
                    number:sg
                    person:3rd ] ]
  moved:  [ A:      none
            A-bar: none
            head: none ]
  type:   [ fin:    -
            q:      -
            root:   -
            wh:     - ] ]

C'_12:
[ cat:    C'
  bind:   [ agr:     [ gender:fem
                    number:sg
                    person:3rd ] ]
  moved:  [ A:      none
            A-bar: none ]
  type:   [ fin:    -
            q:      -
            root:   - ] ]

IP_13:
[ cat:    IP
  bind:   [ agr:     [ gender:fem
                    number:sg
                    person:3rd ] ]
  moved:  [ A:      none
            A-bar: none ]
  subcat: [ subj:   none ]
  type:   [ fin:    -
            q:      -
            root:   - ] ]

PRO_14:
[ cat:    PRO
  type:   [ null:   + ] ]

```

```

I'_15:
[ _cat:  I'
  bind:   [ agr:      [ gender:fem
                        number:sg
                        person:3rd ] ]

  moved:  [ A:        none
            A-bar: none ]
  subcat: [ comp: none
            subj:    [ first:  [ cat:  NP
                                role: Agent
                                type:  [ animate:+
                                        pred: - ] ]

                                rest: none ] ]

  type:   [ fin:  -
            q:    - ] ]

```

```

I_16:
[ _cat:  I
  gloss: to.I
  lex:   to
  type:  [ fin:  - ] ]

```

```

VP_17:
[ _cat:  VP
  agr:    [ person:irrelevant
            vform: bare ]
  bind:   [ agr:      [ gender:fem
                        number:sg
                        person:3rd ] ]

  moved:  [ A:        none
            A-bar: none ]
  subcat: [ comp: none
            subj:    [ first:  [ cat:  NP
                                role: Agent
                                type:  [ animate:+
                                        pred: - ] ]

                                rest: none ] ]

  type:   [ aux:  -
            passive:- ] ]

```

```

V'_18:
[ _cat:  V'
  agr:    [ person:irrelevant
            vform: bare ]
  bind:   [ agr:      [ gender:fem
                        number:sg
                        person:3rd ] ]

  moved:  [ A:        none
            A-bar: none ]
  subcat: [ comp: none
            subj:    [ first:  [ cat:  NP
                                role: Agent
                                type:  [ animate:+
                                        pred: - ] ]

                                rest: none ] ]

  type:   [ aux:  -
            passive:- ] ]

```

```

V'_19:
[ _cat:  V'
  agr:    [ person:irrelevant
            vform: bare ]
  moved:  [ A:        none
            A-bar: none ]
  subcat: [ comp:      [ first:  [ cat:  NP

```

```

                                role: Theme
                                type:  [ pred: - ] ]
                                rest: none ]
      subj:  [ first:  [ cat:  NP
                        role: Agent
                        type:  [ animate:+
                              pred: - ] ]
                                rest: none ] ]
type:  [ aux:  -
        passive:- ] ]

V_20:
[ cat:  V
  agr:  [ person:irrelevant
        vform: bare ]
  gloss: like
  lex:  like
  moved: [ A:      none
           A-bar: none ]
  subcat: [ comp:  [ first:  [ cat:  NP
                             role: Theme
                             type:  [ pred: - ] ]
                               rest: none ]
           subj:  [ first:  [ cat:  NP
                             role: Agent
                             type:  [ animate:+
                                   pred: - ] ]
                               rest: none ] ] ]
type:  [ aux:  -
        passive:- ] ]

NP_21:
[ cat:  NP
  agr:  [ case:  accusative
        gender:fem
        number:sg
        person:3rd ]
  gloss: herself
  lex:  herself
  type:  [ anaphor:+
        animate:+
        pred:  -
        wh:    - ] ]

```

1 parse found

Appendix B: Example Sentences the Grammar Accounts For

Ungrammatical examples that must be ruled out are noted by | *

1. Coordination, subcategorization and particle movement:

we like old movies and popcorn
 those extremely feisty and playful young cats and dogs bother me
 John turned on the light with the bananas
 John turned the light with the bananas on
 John turned for the light
 John turned the light for
 John turned off the light
 John turned the light off
 we count on John for bananas

| *

we count on John	
we count	*
John sleeps	
John sleeps bananas	*
John likes bananas	
John likes	*
John likes bananas with the bombing	
we depend on John	
we depend	*
we depend with John	*
the authorities blamed an innocent man for the bombing	
the authorities blamed an innocent man with the bombing	*
the authorities blamed an innocent man of the bombing	*
the authorities accused an innocent man of the bombing	
the authorities accused an innocent man for the bombing	*
the authorities accused an innocent man with the bombing	*
the authorities charged an innocent man with the bombing	
the authorities charged an innocent man for the bombing	*
the authorities charged an innocent man of the bombing	*
the authorities blamed an innocent man	
the authorities accused an innocent man	
the authorities charged an innocent man	

2. Questions:

Amy might give the book to Bill	
might Amy give the book to Bill	
what might Amy give to Bill	
who might give the book to Bill	
whom might Amy give the book to	
to whom might Amy give the book	
who might Amy give the book to Bill	*
what might Amy give the book to Bill	*
Jorge might think Amy likes Bill	
who might Jorge think Amy likes	
who might Jorge think likes Amy	
Jorge might wonder whether Amy likes Bill	
Jorge might wonder who Amy likes	

3. Auxiliaries, case, agreement, and copular constructions:

Bill had seemed to like Amy	
Bill might have seemed to like Amy	
Amy has tried to give the book to Bill	
Amy had tried to give the book to Bill	
Amy might have tried to give the book to Bill	
Amy might has tried to give the book to Bill	*
Amy has might try to give the book to Bill	*
me have tried to give the book to Bill	*
Amy has tried to give the book to we	*
Jorge has been feisty	
has Jorge been feisty	
who has been feisty	
Jorge is feisty	
is Jorge feisty	
who is feisty	
Jorge seems feisty	
Jorge has seemed feisty	
who has seemed feisty	
the popcorn might be ours	
might the popcorn be ours	
what might be ours	
the popcorn is ours	
is the popcorn ours	

what is ours	
whose is the popcorn	
whose popcorn is that	
Jorge is president	
is Jorge president	
who is president	
Jorge is the president	
is Jorge the president	
who is the president	
what is Jorge	
what office is Jorge	
the book is under the bed	
is the book under the bed	
the book could be under the bed	
could the book be under the bed	
what could be under the bed	
what could the book be under	
the book was under the bed	
was the book under the bed	
the books are under the bed	
are the books under the bed	
the books is under the bed	*
is the books under the bed	*
the popcorn is ours	
the popcorn is our	*
Jorge likes me	
Jorge likes I	*
Jorge likes his book	
Jorge likes him book	*
Jorge likes he book	*
Jorge likes Bill's book	
Jorge likes Bill book	*
he likes bananas	
him likes bananas	*
Jorge likes those movies of mine	
Jorge likes those movies of my	*
Jorge likes those movies of me	
Jorge likes those movies of I	*

4. Passives and unaccusatives:

Bill has broken the glass	
Bill broke the glass	
the glass was broken	
the glass was broken by Bill	
Bill was broken the glass	*
Bill broken the glass	*
Bill died	
Bill was died	*
Bill was dying	
Bill has died	
the glass broke	
the glass is breaking	
the glass has broken	

5. Equi and Raising Constructions:

Bill seems to like Amy
 Jorge seems to think Amy likes Bill
 Amy tried to give the book to Bill
 Amy seemed to try to give the book to Bill
 who might Jorge seem to think Amy likes
 what might Amy try to give to Bill

6. Reflexives:

Amy likes herself	
Amy likes himself	*
we like ourselves	
we like myself	*
Bill likes the picture of himself	
Bill likes the picture of herself	*
Jorge talks to himself	
Jorge talks to herself	*
Jorge talks to Bill about himself	
Jorge talks to Bill about herself	*
Jorge thinks Amy likes herself	
Jorge thinks Amy likes himself	*
Amy tries to like herself	
Amy tries to like himself	*
Amy seems to like herself	
Amy seems to like himself	*

7. Adjuncts versus complements:

Bill put the book on the bed	
Bill put the book on the bed in the morning	
Bill put the book on the bed on Tuesday	
Bill put the book in the morning	*

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