Family "Tnx0lVN1"

March 5, 2008

1 Tree "alphanx0lVN1"

1.1 graphe

```
              S
               r
         /        \
      NP            VP
       0↓          /    \
                 V      NP
                  ◇       1
                          |
                         N ◇
```
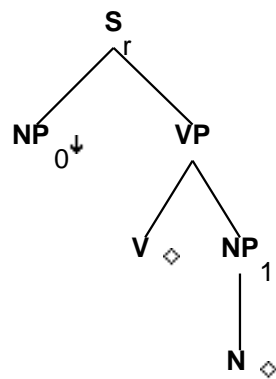
1.2 comments

```
'John takes notice'
 'John has taken notice'
 'Did John take notice'
 'Has John taken notice'
 '(I think) (that) John took notice'
```

1.3 features

```
S_r.b:<extracted> = -
S_r.b:<inv> = -
S_r.b:<assign-comp> = VP.t:<assign-comp>



S_r.b:<mode> = VP.t:<mode>
S_r.b:<comp> = nil
S_r.b:<tense> = VP.t:<tense>
NP_0:<agr> = S_r.b:<agr>
NP_0:<case> = S_r.b:<assign-case>
```

```
NP_1:<case> = acc
NP_0:<wh> = -
S_r.b:<agr> = VP.t:<agr>
S_r.b:<assign-case> = VP.t:<assign-case>
VP.b:<passive> = V.t:<passive>
V.t:<passive> = -
VP.b:<agr> = V.t:<agr>
VP.b:<assign-case> = V.t:<assign-case>
VP.b:<assign-comp> = V.t:<assign-comp>
VP.b:<mode> = V.t:<mode>
VP.b:<tense> = V.t:<tense>
VP.b:<mainv> = V.t:<mainv>
VP.b:<compar> = -
NP_1.b:<case> = N.t:<case>
NP_1.b:<pron> = N.t:<pron>
NP_1.b:<agr> = N.t:<agr>
NP_1.b:<wh> = N.t:<wh>
NP_1.b:<compar> = N.t:<compar>
N.b:<compar> = -
N.t:<const> = NP_1.b:<const>
N.t:<gen> = NP_1.b:<gen>
N.t:<definite> = NP_1.b:<definite>
N.t:<quan> = NP_1.b:<quan>
N.t:<card> = NP_1.b:<card>
N.t:<decreas> = NP_1.b:<decreas>
S_r.b:<control> = NP_0.t:<control>
S_r.b:<progressive> = VP.t:<progressive>
S_r.b:<perfect> = VP.t:<perfect>
S_r.b:<passive> = VP.t:<passive>
S_r.b:<mainv> = VP.t:<mainv>
```
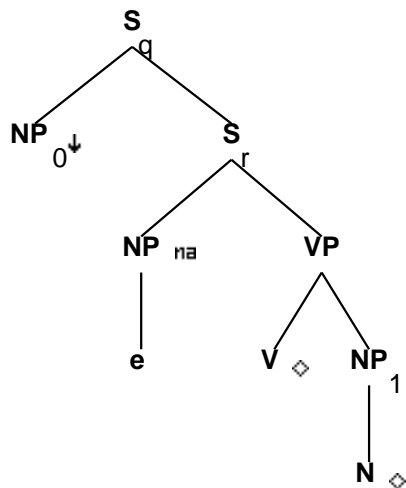
2 Tree "alphaW0nx0lVN1"

2.1 graphe

```
                    S
                     q
              /           \
           NP              S
             0↓             r
                      /          \
                   NP            VP
                     na        /     \
                   |          V      NP
                   e          ◊         1
                                      |
                                      N ◊
```

2.2 comments

```
Wh on the subject

 'Who took notice'
 'Who has taken notice'

check the agr equation on  NP0
```

2.3 features

```
S_q.b:<extracted> = +

S_q.b:<inv> = S_r.t:<inv>
S_r.t:<comp> = nil
S_r.b:<assign-comp> = VP.t:<assign-comp>



S_q.b:<wh> = NP_0:<wh>
S_q.b:<comp> = nil
S_q.b:<mode> = S_r.t:<mode>
S_r.b:<mode> = VP.t:<mode>
S_r.b:<comp> = nil
S_r.b:<tense> = VP.t:<tense>
S_r.b:<inv> = -
NP.t:<trace> = NP_0.t:<trace>
NP.t:<agr> = NP_0.t:<agr>
NP.t:<case> = NP_0.t:<case>
```

```
NP.t:<wh> = NP_0.t:<wh>
NP_0:<wh> = +
NP.t:<agr> = S_r.b:<agr>
NP.t:<case> = S_r.b:<assign-case>
NP_1:<case> = acc
S_r.b:<agr> = VP.t:<agr>
S_r.b:<assign-case> = VP.t:<assign-case>
VP.b:<agr> = V.t:<agr>
VP.b:<assign-case> = V.t:<assign-case>
VP.b:<assign-comp> = V.t:<assign-comp>
VP.b:<mode> = V.t:<mode>
VP.b:<tense> = V.t:<tense>
VP.b:<mainv> = V.t:<mainv>
VP.b:<passive> = V.t:<passive>
V.t:<passive> = -
VP.b:<compar> = -
NP_1.b:<case> = N.t:<case>
NP_1.b:<pron> = N.t:<pron>
NP_1.b:<agr> = N.t:<agr>
NP_1.b:<wh> = N.t:<wh>
NP_1.b:<compar> = N.t:<compar>
N.b:<compar> = -
S_r.t:<conj> = nil
S_r.b:<assign-comp> = inf_nil/ind_nil/ecm

N.t:<const> = NP_1.b:<const>
N.t:<gen> = NP_1.b:<gen>
N.t:<definite> = NP_1.b:<definite>
N.t:<quan> = NP_1.b:<quan>
N.t:<card> = NP_1.b:<card>
N.t:<decreas> = NP_1.b:<decreas>
```
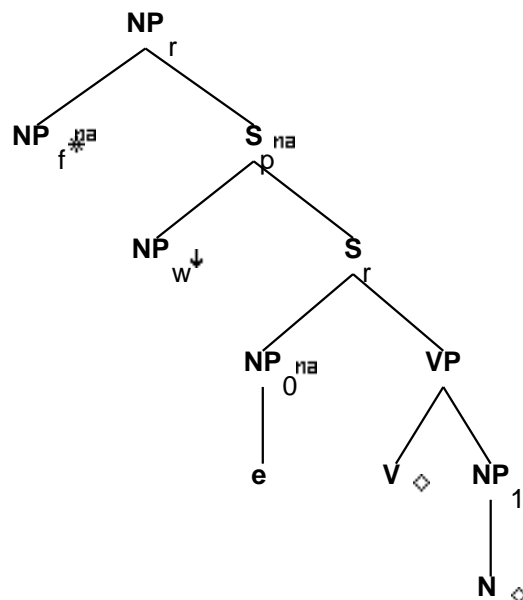
3 Tree "betaN0nx0lVN1"

3.1 graphe

3.2 comments

```
Wh on the subject

 'Who takes notice'
 'Who has taken notice'

check the agr equation on  NP0
```

3.3 features

```
S_r.b:<assign-comp> = VP.t:<assign-comp>




S_r.t:<mode> = ind/inf
S_r.b:<comp> = nil
S_r.b:<mode> = VP.t:<mode>
S_r.b:<tense> = VP.t:<tense>
S_r.t:<inv> = -
NP_0.t:<agr> = S_r.b:<agr>
NP_0.t:<case> = S_r.b:<assign-case>
NP_1:<case> = acc
S_r.b:<agr> = VP.t:<agr>
S_r.b:<assign-case> = VP.t:<assign-case>
```

```
VP.b:<agr> = V.t:<agr>
VP.b:<assign-case> = V.t:<assign-case>
VP.b:<assign-comp> = V.t:<assign-comp>
VP.b:<mode> = V.t:<mode>
VP.b:<tense> = V.t:<tense>
VP.b:<mainv> = V.t:<mainv>
VP.b:<compar> = -
NP_1.b:<case> = N.t:<case>
NP_1.b:<pron> = N.t:<pron>
NP_1.b:<agr> = N.t:<agr>
NP_1.b:<wh> = N.t:<wh>
NP_1.b:<compar> = N.t:<compar>
N.b:<compar> = -
NP_r.b:<wh> = NP_f.t:<wh>
NP_r.b:<agr> = NP_f.t:<agr>
NP_r.b:<case> = NP_f.t:<case>
S_r.t:<conj> = nil

NP_w.t:<trace> = NP_0.b:<trace>
NP_w.t:<case> = NP_0.b:<case>
NP_w.t:<agr> = NP_0.b:<agr>
NP_w.t:<wh> = +
S_r.t:<comp> = nil
NP_r.b:<rel-clause> = +
NP_f.b:<case> = nom/acc
N.t:<const> = NP_1.b:<const>
N.t:<gen> = NP_1.b:<gen>
N.t:<definite> = NP_1.b:<definite>
N.t:<quan> = NP_1.b:<quan>
N.t:<card> = NP_1.b:<card>
N.t:<decreas> = NP_1.b:<decreas>
NP_r.b:<pron> = NP_f.t:<pron>
```
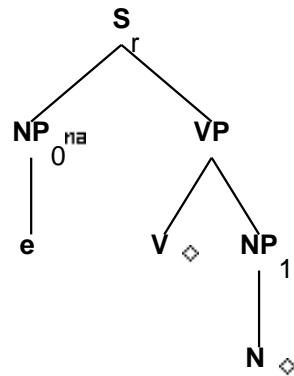
4 Tree "alphaInx0lVN1"

4.1 graphe

4.2 comments

```
'Take notice'
```

4.3 features

```
S_r.b:<extracted> = -
S_r.b:<inv> = -
S_r.b:<assign-comp> = VP.t:<assign-comp>



S_r.b:<comp> = nil
S_r.b:<mode> = imp
S_r.b:<tense> = VP.t:<tense>
VP.t:<tense> = pres
NP_0:<agr> = S_r.b:<agr>
NP_0:<case> = S_r.b:<assign-case>
NP_1:<case> = acc
NP_0:<wh> = -
NP_0:<agr pers> = 2
NP_0:<agr 3rdsing> = -
NP_0:<agr num> = plur/sing
NP_0:<case> = nom
S_r.b:<agr> = VP.t:<agr>
S_r.b:<assign-case> = VP.t:<assign-case>
VP.t:<neg> = -
VP.t:<mode> = base
VP.b:<mode> = V.t:<mode>
VP.b:<passive> = V.t:<passive>
V.t:<passive> = -
VP.b:<agr> = V.t:<agr>
VP.b:<assign-case> = V.t:<assign-case>
VP.b:<assign-comp> = V.t:<assign-comp>
VP.b:<tense> = V.t:<tense>
VP.b:<mainv> = V.t:<mainv>
VP.b:<compar> = -
NP_1.b:<case> = N.t:<case>
NP_1.b:<pron> = N.t:<pron>
NP_1.b:<agr> = N.t:<agr>
NP_1.b:<wh> = N.t:<wh>
NP_1.b:<compar> = N.t:<compar>
N.b:<compar> = -
N.t:<const> = NP_1.b:<const>
N.t:<gen> = NP_1.b:<gen>
N.t:<definite> = NP_1.b:<definite>
N.t:<quan> = NP_1.b:<quan>
N.t:<card> = NP_1.b:<card>
N.t:<decreas> = NP_1.b:<decreas>
S_r.b:<progressive> = VP.t:<progressive>
```
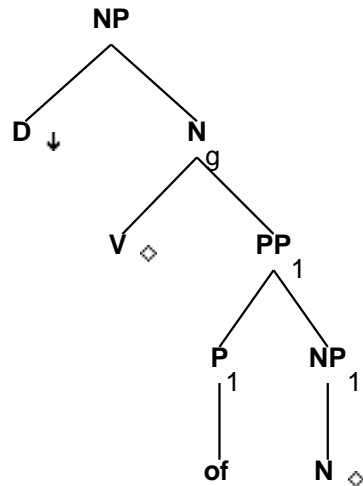
```
S_r.b:<perfect> = VP.t:<perfect>
S_r.b:<passive> = VP.t:<passive>
S_r.b:<mainv> = VP.t:<mainv>
```

5 Tree "alphaDnx0lVN1"

5.1 graphe

5.2 comments

`'the making of comments'`

5.3 features

```
NP.b:<const> = D.t:<const>
NP.b:<definite> = D.t:<definite>
NP.b:<quan> = D.t:<quan>
NP.b:<card> = D.t:<card>
NP.b:<gen> = D.t:<gen>
NP.b:<decreas> = D.t:<decreas>
NP.b:<wh> = D.t:<wh>
NP_1:<case> = acc
V.b:<mode> = ger
NP.b:<case> = nom/acc
NP.b:<agr num> = sing
NP.b:<agr pers> = 3
NP.b:<agr 3rdsing> = +
P_1.b:<assign-case> = acc
PP_1.b:<assign-case> = P_1.t:<assign-case>
PP_1.b:<assign-case> = NP_1.t:<case>
NP_1.b:<case> = N.t:<case>
NP_1.b:<pron> = N.t:<pron>
```
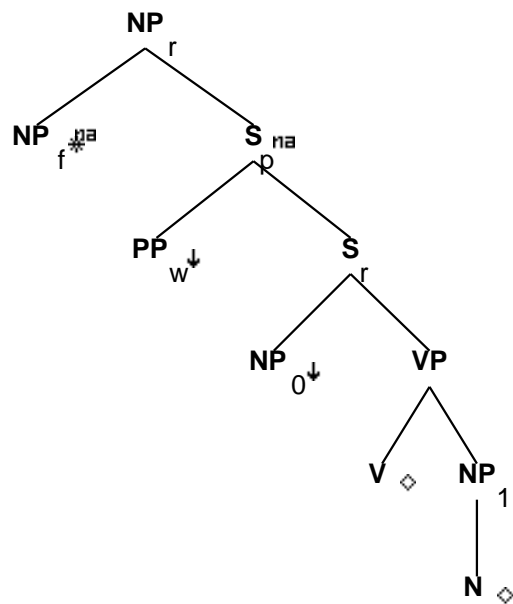
```
NP_1.b:<agr> = N.t:<agr>
NP_1.b:<wh> = N.t:<wh>
NP_1.b:<compar> = N.t:<compar>
N.b:<compar> = -
N.t:<const> = NP_1.b:<const>
N.t:<gen> = NP_1.b:<gen>
N.t:<definite> = NP_1.b:<definite>
N.t:<quan> = NP_1.b:<quan>
N.t:<card> = NP_1.b:<card>
N.t:<decreas> = NP_1.b:<decreas>
```

6 Tree "betaNpxnx0lVN1"

6.1 graphe

6.2 comments

```
'John takes notice'
 'John has taken notice'
 'Did John take notice'
 'Has John taken notice'
 '(I think) (that) John took notice'
```

6.3 features

```
S_r.b:<extracted> = -
S_r.b:<inv> = -
S_r.b:<assign-comp> = VP.t:<assign-comp>
```

```
S_r.b:<mode> = VP.t:<mode>
S_r.b:<comp> = nil
S_r.b:<tense> = VP.t:<tense>
NP_0:<agr> = S_r.b:<agr>
NP_0:<case> = S_r.b:<assign-case>
NP_1:<case> = acc
NP_0:<wh> = -
S_r.b:<agr> = VP.t:<agr>
S_r.b:<assign-case> = VP.t:<assign-case>
VP.b:<passive> = V.t:<passive>
V.t:<passive> = -
VP.b:<agr> = V.t:<agr>
VP.b:<assign-case> = V.t:<assign-case>
VP.b:<assign-comp> = V.t:<assign-comp>
VP.b:<mode> = V.t:<mode>
VP.b:<tense> = V.t:<tense>
VP.b:<mainv> = V.t:<mainv>
VP.b:<compar> = -
NP_1.b:<case> = N.t:<case>
NP_1.b:<pron> = N.t:<pron>
NP_1.b:<agr> = N.t:<agr>
NP_1.b:<wh> = N.t:<wh>
NP_1.b:<compar> = N.t:<compar>
N.b:<compar> = -
S_r.b:<control> = NP_0.t:<control>
S_r.t:<inv> = -
PP_w.t:<wh> = +
NP_r.b:<wh> = NP_f.t:<wh>
NP_r.b:<agr> = NP_f.t:<agr>
NP_r.b:<case> = NP_f.t:<case>
NP_f.b:<case> = acc/nom
S_r.t:<comp> = nil
NP_r.b:<rel-clause> = +
NP_f.b:<case> = nom/acc
N.t:<const> = NP_1.b:<const>
N.t:<gen> = NP_1.b:<gen>
N.t:<definite> = NP_1.b:<definite>
N.t:<quan> = NP_1.b:<quan>
N.t:<card> = NP_1.b:<card>
N.t:<decreas> = NP_1.b:<decreas>
NP_r.b:<pron> = NP_f.t:<pron>

S_r.b:<progressive> = VP.t:<progressive>
S_r.b:<perfect> = VP.t:<perfect>
S_r.b:<passive> = VP.t:<passive>
S_r.b:<mainv> = VP.t:<mainv>
```
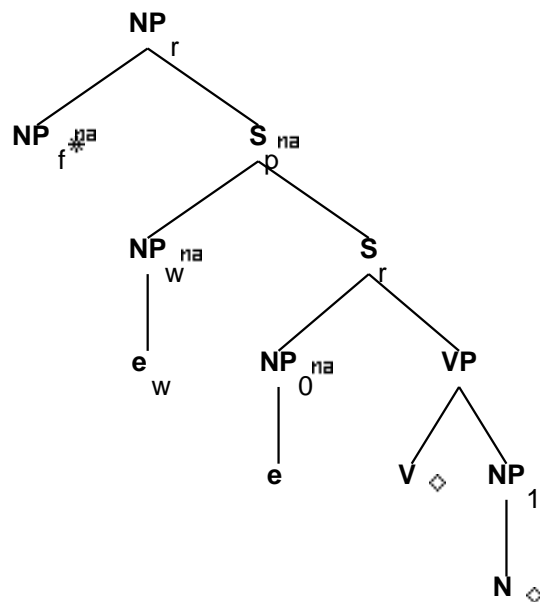
7 Tree "betaNc0nx0lVN1"

7.1 graphe

```
                        NP
                          r
              NP  na              S  na
                f  *               p
                        NP  na          S
                          w               r
                          |        NP  na      VP
                          e         0
                          w         |      V ◇    NP
                                    e              1
                                                   |
                                                   N ◇
```

7.2 comments

```
Wh on the subject

 'Who takes notice'
 'Who has taken notice'

check the agr equation on  NP0
```

7.3 features

```
S_r.b:<assign-comp> = VP.t:<assign-comp>
```

```
S_r.b:<comp> = nil
S_r.b:<mode> = VP.t:<mode>
S_r.b:<tense> = VP.t:<tense>
S_r.t:<inv> = -
NP_0.t:<agr> = S_r.b:<agr>
NP_0.t:<case> = S_r.b:<assign-case>
NP_1:<case> = acc
S_r.b:<agr> = VP.t:<agr>
S_r.b:<assign-case> = VP.t:<assign-case>
VP.b:<agr> = V.t:<agr>
```

```
VP.b:<assign-case> = V.t:<assign-case>
VP.b:<assign-comp> = V.t:<assign-comp>
VP.b:<mode> = V.t:<mode>
VP.b:<tense> = V.t:<tense>
VP.b:<mainv> = V.t:<mainv>
VP.b:<compar> = -
NP_1.b:<case> = N.t:<case>
NP_1.b:<pron> = N.t:<pron>
NP_1.b:<agr> = N.t:<agr>
NP_1.b:<wh> = N.t:<wh>
NP_1.b:<compar> = N.t:<compar>
N.b:<compar> = -
NP_r.b:<wh> = NP_f.t:<wh>
NP_r.b:<agr> = NP_f.t:<agr>
NP_r.b:<case> = NP_f.t:<case>
S_r.t:<conj> = nil

NP_w.t:<trace> = NP_0.b:<trace>
NP_w.t:<case> = NP_0.b:<case>
NP_w.t:<agr> = NP_0.b:<agr>
NP_r.b:<rel-clause> = +
S_r.t:<mode> = inf/ger/ind
S_r.t:<nocomp-mode> = inf/ger
VP.t:<assign-comp> = that/ind_nil/inf_nil/ecm
S_r.b:<nocomp-mode> = S_r.b:<mode>
NP_f.b:<case> = nom/acc
N.t:<const> = NP_1.b:<const>
N.t:<gen> = NP_1.b:<gen>
N.t:<definite> = NP_1.b:<definite>
N.t:<quan> = NP_1.b:<quan>
N.t:<card> = NP_1.b:<card>
N.t:<decreas> = NP_1.b:<decreas>
NP_r.b:<pron> = NP_f.t:<pron>
```
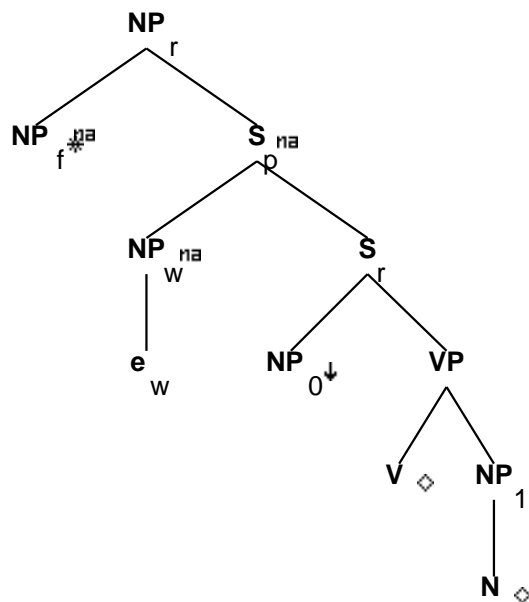
8 Tree "betaNcnx0lVN1"

8.1 graphe

```
                        NP
                          r
              ┌──────────────────┐
           NP na              S na
            f *                 p
                          ┌────────────┐
                       NP na          S
                        w              r
                        │         ┌─────────┐
                        e        NP        VP
                        w         0↓
                                       ┌────────┐
                                      V ◇      NP
                                                 1
                                                 │
                                                N ◇
```

8.2 comments

```
'John takes notice'
 'John has taken notice'
 'Did John take notice'
 'Has John taken notice'
 '(I think) (that) John took notice'
```

8.3 features

```
S_r.b:<extracted> = -
S_r.b:<inv> = -
S_r.b:<assign-comp> = VP.t:<assign-comp>



S_r.b:<mode> = VP.t:<mode>
S_r.b:<comp> = nil
S_r.b:<tense> = VP.t:<tense>
NP_0:<agr> = S_r.b:<agr>
NP_0:<case> = S_r.b:<assign-case>
NP_1:<case> = acc
NP_0:<wh> = -
S_r.b:<agr> = VP.t:<agr>
S_r.b:<assign-case> = VP.t:<assign-case>
VP.b:<passive> = V.t:<passive>
```

```
V.t:<passive> = -
VP.b:<agr> = V.t:<agr>
VP.b:<assign-case> = V.t:<assign-case>
VP.b:<assign-comp> = V.t:<assign-comp>
VP.b:<mode> = V.t:<mode>
VP.b:<tense> = V.t:<tense>
VP.b:<mainv> = V.t:<mainv>
VP.b:<compar> = -
NP_1.b:<case> = N.t:<case>
NP_1.b:<pron> = N.t:<pron>
NP_1.b:<agr> = N.t:<agr>
NP_1.b:<wh> = N.t:<wh>
NP_1.b:<compar> = N.t:<compar>
N.b:<compar> = -
S_r.b:<control> = NP_0.t:<control>
NP_r.b:<wh> = NP_f.t:<wh>
NP_r.b:<agr> = NP_f.t:<agr>
NP_r.b:<case> = NP_f.t:<case>
NP_f.b:<case> = acc/nom
S_r.t:<inv> = -
S_r.t:<mode> = ind/inf
S_r.t:<nocomp-mode> = ind
VP.t:<assign-comp> = that/for/ind_nil
S_r.b:<nocomp-mode> = S_r.b:<mode>
NP_r.b:<rel-clause> = +
NP_f.b:<case> = nom/acc
N.t:<const> = NP_1.b:<const>
N.t:<gen> = NP_1.b:<gen>
N.t:<definite> = NP_1.b:<definite>
N.t:<quan> = NP_1.b:<quan>
N.t:<card> = NP_1.b:<card>
N.t:<decreas> = NP_1.b:<decreas>
NP_r.b:<pron> = NP_f.t:<pron>

S_r.b:<progressive> = VP.t:<progressive>
S_r.b:<perfect> = VP.t:<perfect>
S_r.b:<passive> = VP.t:<passive>
S_r.b:<mainv> = VP.t:<mainv>
```
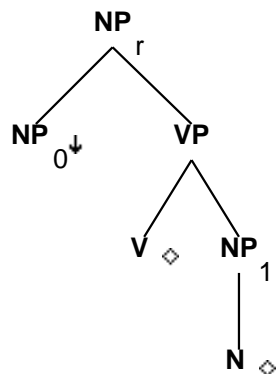
9   Tree "alphaGnx0lVN1"

9.1   graphe

```
                    NP
                      r
              /          \
          NP              VP
            0↓           /    \
                      V        NP
                        ◇        1
                                 |
                                 N ◇
```

9.2   comments

```
Light Verbs - NP gerund

...John('s) making comments...
```

9.3   features

```
NP_r.b:<case> = nom/acc
NP_r.b:<agr num> = sing
NP_r.b:<agr pers> = 3
NP_r.b:<agr 3rdsing> = +
NP_r.b:<gerund> = +

NP_0:<wh> = NP_r.b:<wh>
NP_r.b:<wh> = NP_0:<wh>
VP.t:<mode> = ger

NP_1:<case> = acc
NP_1.b:<case> = N.t:<case>
NP_1.b:<pron> = N.t:<pron>
NP_1.b:<agr> = N.t:<agr>
NP_1.b:<wh> = N.t:<wh>
NP_1.b:<compar> = N.t:<compar>
N.b:<compar> = -
N.t:<const> = NP_1.b:<const>
N.t:<gen> = NP_1.b:<gen>
N.t:<definite> = NP_1.b:<definite>
N.t:<quan> = NP_1.b:<quan>
N.t:<card> = NP_1.b:<card>
N.t:<decreas> = NP_1.b:<decreas>
VP.b:<mode> = V.t:<mode>
VP.b:<passive> = V.t:<passive>
```
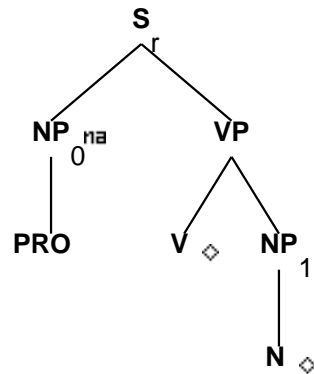
```
V.t:<passive> = -
NP_0:<case> = acc/gen
```

10   Tree "alphanx0lVN1-PRO"

10.1   graphe

```
              S
               r
            /     \
        NP  na      VP
          0         / \
         |         /    \
        PRO       V      NP
                   ◇       1
                           |
                           |
                          N
                            ◇
```

10.2   comments

```
Light Verbs w/ PRO subject

John wanted [PRO to make comments].
While [PRO having a discussion] John and Jim oftens say things they regret.
```

10.3   features

```
S_r.b:<extracted> = -
S_r.b:<inv> = -
S_r.b:<assign-comp> = VP.t:<assign-comp>
S_r.b:<mode> = VP.t:<mode>
S_r.b:<comp> = nil
S_r.b:<tense> = VP.t:<tense>
S_r.b:<assign-case> = NP_0.t:<case>
NP_0:<agr> = S_r.b:<agr>
NP_1:<case> = acc
NP_0:<wh> = -
NP_0.t:<case> = none
S_r.b:<agr> = VP.t:<agr>
VP.b:<passive> = V.t:<passive>
V.t:<passive> = -
VP.b:<agr> = V.t:<agr>
VP.b:<assign-comp> = V.t:<assign-comp>
VP.b:<mode> = V.t:<mode>
VP.b:<tense> = V.t:<tense>
VP.b:<mainv> = V.t:<mainv>
VP.b:<compar> = -
```
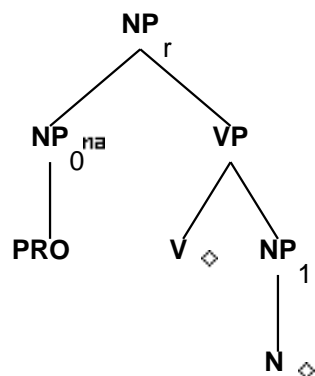
```
NP_1.b:<case> = N.t:<case>
NP_1.b:<pron> = N.t:<pron>
NP_1.b:<agr> = N.t:<agr>
NP_1.b:<wh> = N.t:<wh>
NP_1.b:<compar> = N.t:<compar>
N.b:<compar> = -
N.t:<const> = NP_1.b:<const>
N.t:<gen> = NP_1.b:<gen>
N.t:<definite> = NP_1.b:<definite>
N.t:<quan> = NP_1.b:<quan>
N.t:<card> = NP_1.b:<card>
N.t:<decreas> = NP_1.b:<decreas>
S_r.b:<control> = NP_0.t:<control>
S_r.b:<progressive> = VP.t:<progressive>
S_r.b:<perfect> = VP.t:<perfect>
S_r.b:<passive> = VP.t:<passive>
S_r.b:<mainv> = VP.t:<mainv>
VP.t:<mode> = inf/ger
```

11 Tree "alphaGnx0lVN1-PRO"

11.1 graphe

11.2 comments

```
Light Verbs  - NP gerund w/ PRO subject

[PRO making comments] was difficult for John.
```

11.3 features

```
NP_r.b:<case> = nom/acc
NP_r.b:<agr num> = sing
NP_r.b:<agr pers> = 3
NP_r.b:<agr 3rdsing> = +
NP_r.b:<gerund> = +
```

```
NP_0:<wh> = NP_r.b:<wh>
NP_0.t:<case> = none
NP_0.t:<wh> = -
NP_r.b:<wh> = NP_0:<wh>
VP.t:<mode> = ger
NP_1:<case> = acc
NP_1.b:<case> = N.t:<case>
NP_1.b:<pron> = N.t:<pron>
NP_1.b:<agr> = N.t:<agr>
NP_1.b:<wh> = N.t:<wh>
NP_1.b:<compar> = N.t:<compar>
N.b:<compar> = -
N.t:<const> = NP_1.b:<const>
N.t:<gen> = NP_1.b:<gen>
N.t:<definite> = NP_1.b:<definite>
N.t:<quan> = NP_1.b:<quan>
N.t:<card> = NP_1.b:<card>
N.t:<decreas> = NP_1.b:<decreas>
VP.b:<mode> = V.t:<mode>
VP.b:<passive> = V.t:<passive>
V.t:<passive> = -
```