

# December

## Parser crash post mortem

### Lexicon

```
ring{String}["N.sg"],"women" => SubString{String}["N.pl"],"guitar" =>
SubString{String}["N.sg"],"seen" => SubString{String}["V.trans.ed"],"short" =>
SubString{String}["Adj"],"thinks" => SubString{String}["V.trans", "V.clausal"],"big" =>
SubString{String}["Adj"],"a" => SubString{String}["Det"],"thinking" =>
SubString{String}["V.trans.ing", "V.clausal.ing"],"looked" =>
SubString{String}["V.trans.ed"],"plumbers" => SubString{String}["N.pl"],"yellow" =>
SubString{String}["Adj"],"this" => SubString{String}["Det"],"throws" =>
SubString{String}["V.trans", "V.ditrans"],"eat" => SubString{String}["V.trans.bare",
"V.intrans.bare"],"massive" => SubString{String}["Adj"],"look" =>
SubString{String}["V.intrans.bare", "V.stative.bare"],"under" =>
SubString{String}["P"],"called" => SubString{String}["V.attrib.ed"],"sleep" =>
SubString{String}["V.intrans.bare"],"the" => SubString{String}["Det"],"laughing" =>
SubString{String}["V.intrans.ing"],"talks" => SubString{String}["V.intrans"],"stone" =>
SubString{String}["N.sg"],"calls" => SubString{String}["V.attrib"],"house" =>
SubString{String}["N.sg"],"sleeps" => SubString{String}["V.intrans"],"talk" =>
SubString{String}["V.intrans.bare"])Dec 09 18:17:11 parser server[4846]:
Dict{Any,Any}("compliments" => SubString{String}["V.trans"],"pulls" =>
SubString{String}["V.trans"],"pull" => SubString{String}["V.trans.bare"],"grab" =>
SubString{String}["V.trans.bare"],"plumber" => SubString{String}["N.sg"],"many" =>
SubString{String}["Det"],"that" => SubString{String}["Det"],"buy" =>
SubString{String}["V.trans.bare"],"three" => SubString{String}["Adj"],"cats" =>
SubString{String}["N.pl"],"runs" => SubString{String}["V.trans", "V.intrans"],"seems" =>
SubString{String}["V.stative"],"to" => SubString{String}["INF"],"sees" =>
SubString{String}["V.trans", "V.intrans"],"laugh" =>
SubString{String}["V.intrans.bare"],"dogs" => SubString{String}["N.pl"],"call" =>
SubString{String}["V.attrib.bare"],"is" => SubString{String}["V.stative",
```

```

"Aux.prog"],"pushes" => SubString{String}["V.trans"],"looking" =>
SubString{String}["V.trans.ing"],"calling" => SubString{String}["V.attrib.ing"],"throw" =>
SubString{String}["V.ditrans.bare"],"looks" => SubString{String}["V.intrans",
"V.stative"],"hill" => SubString{String}["N.sg"],"in" => SubString{String}["P"],"wants" =>
SubString{String}["V.inf"],"has" => SubString{String}["Aux.perf"],"push" =>
SubString{String}["V.trans.bare"],"buys" => SubString{String}["V.trans"],"dog" =>
SubString{String}["N.sg"],"catches" => SubString{String}["V.trans"],"cat" =>
SubString{String}["N.sg"],"foot" => SubString{String}["N.sg"],"on" =>
SubString{String}["P"],"run" => SubString{String}["V.trans.bare", "V.intrans.bare"],"see" =>
SubString{String}["V.trans.bare", "V.intrans.bare"],"eats" => SubString{String}["V.trans",
"V.intrans"],"thought" => SubString{String}["V.clausal.ed"],"pasted" =>
SubString{String}["V.trans.ed"],"bought" => SubString{String}["V.trans.ed"],"seeing" =>
SubString{String}["V.trans.ing"],"think" => SubString{String}["V.clausal.bare"],"been" =>
SubString{String}["Perf.prog"],"laughs" => SubString{String}["V.intrans"],"grabs" =>
SubString{String}["V.trans"],"compliment" => SubString{String}["V.trans.bare"],"catch" =>
SubString{String}["V.trans.bare"],"woman" => SubSt

```

# sentences

```
Any[["the", "cat", "has", "been", "looking", "in", "the", "house"]]
```

# Productions

```

Dict{Any,Any}("S" => Array{String,1}[["NP", "VP"]],"NP" => Array{String,1}[["Det", "N.sg"],
["Det", "N.pl"], ["Det", "N.sg", "PP"], ["Det", "N.pl", "PP"], ["Det", "Adj", "N.sg"],
["Det", "Adj", "N.pl"], ["N.pl"], ["Det", "N.sg"], ["Det", "Adj", "N.sg"], ["Det", "N.sg",
"PP"], ["Det", "Adj", "N.sg", "PP"], ["N.pl"], ["Det", "N.pl"], ["Adj", "N.pl"], ["Det",
"Adj", "N.pl"], ["N.pl", "PP"], ["Det", "N.pl", "PP"], ["Adj", "N.pl", "PP"], ["Det", "Adj",
"N.pl", "PP"]],"PP" => Array{String,1}[["P", "NP"]],"VP" => Array{String,1}[["V.trans", "S"],
["V.trans", "NP", "NP"], ["V.intrans"], ["V.trans", "NP"], ["V.stative", "Adj"], ["V.attrib",
"NP", "Adj"], ["V.inf", "INF", "V.intrans.bare", "NP"], ["V.inf", "INF", "V.intrans.bare",
"PP"], ["V.inf", "INF", "VP"], ["V.clausal.bare", "NP", "V.trans", "NP"], ["V.attrib.bare",
"NP", "Adj"], ["Aux.prog", "V.trans.ing", "PP"], ["Aux.prog", "V.trans.ing", "NP"],
["Aux.prog", "VP"], ["V.attrib.ing", "NP", "Adj"], ["Aux.prog", "V.attrib.ing", "NP"],
["Aux.prog", "V.clausal.ing", "NP", "V.trans", "NP"], ["Aux.perf", "V.trans.ed", "PP"],

```

```
["Aux.perf", "V.trans.ed", "NP"], ["Aux.perf", "VP"], ["V.attrib.ed", "NP", "Adj"],
["Aux.perf", "V.clausal.ed", "S"], ["Aux.perf", "Perf.prog", "V.trans.ing"], ["VP", "PP"],
["Aux.perf", "Perf.prog", "V.trans.ing", "NP"], ["VP", "NP"], ["Aux.perf", "Perf.prog",
"V.intrans.ing"], ["VP"]])
```

# Relevant piece of stacktrace

```
|97 |V.trans.ing-> looking* <== Int64[]|98 |VP ->Aux.perf Perf.prog
V.trans.ing* <== [57, 93, 97]|99 |VP ->Aux.perf Perf.prog V.trans.ing*NP
<== [57, 93, 97]
|100 |S -> NP VP* <== [25, 98]
|101 |VP -> VP*PP <== [98]
|102 |VP -> VP*NP <== [98]
|103 |VP -> VP* <== [98]
|104 |NP -> *Det N.sg <== Int64[]|105 |NP -> *Det N.pl <== Int64[]
|106 |NP -> *Det N.sg PP <== Int64[]|107 |NP -> *Det N.pl PP <== Int64[]
|108 |NP -> *Det Adj N.sg <== Int64[]|109 |NP -> *Det Adj N.pl <== Int64[]
|110 |NP -> *N.pl <== Int64[]|111 |NP -> *Det Adj N.sg PP <==
Int64[]
|112 |NP -> *Adj N.pl <== Int64[]|113 |NP -> *N.pl PP <== Int64[]
|114 |NP -> *Adj N.pl PP <== Int64[]|115 |NP -> *Det Adj N.pl PP <==
Int64[]
|116 |γ -> S* <== [100]
|117 |PP -> *P NP <== Int64[]|118 |S -> NP VP* <== [25, 103]
|119 |VP -> VP*PP <== [103]
|120 |VP -> VP*NP <== [103]
|121 |VP -> VP* <== [103]|122 |γ -> S* <== [118]
-----
, -----|123 |P -> in* <== Int64[]
-----
```

Revision #2

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