ex8

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```
[1]: #!pip install eniam
     from eniam import *
     # Ex. 1
     result = Eniam(
     # Custom atomic symbols in lexicon
     [],
     # Custom lexicon rules
     {
         rule(lemma='kot',pos=subst,case=nom):
                                                      nom,
         rule(lemma='gonić',pos=fin,person=ter):
                                                      (ip<nom)>acc,
         rule(lemma='mysz',pos=subst,case=acc):
                                                      acc,
         root_rule():
                                                      s % ip,
     },
     # Custom valence phrases
     ['KOT', 'MYSZ', 'ZDARZENIE'],
     # Valence rules
     {
         valence_rule('kot', 'noun'): 'KOT',
         valence_rule('mysz', 'noun'): 'MYSZ',
         valence_rule('gonić', 'verb'): 'ZDARZENIE',
     }).dom("Kot goni mysz.")
     #result.show()
     result.save_html('ex1')
```

[1]: <eniam.eniam_core.DomparserResult at 0x10c4fafd0>

```
},
  ['KOT', 'MYSZ', 'ZDARZENIE'],
  {
     valence_rule('kot', 'noun'): 'KOT',
     valence_rule('mysz', 'noun'): 'MYSZ',
     valence_rule('gonić', 'verb'): 'ZDARZENIE',
  }
).dom("Kot goni mysz.")

#result.show()
result.save_html('ex2')
```

[2]: <eniam.eniam_core.DomparserResult at 0x10c532e10>

```
[3]: # Ex. 3
     from eniam import *
     result = Eniam(
         []
         {
             rule(lemma='kot',pos=subst):
                                                 np*nom,
             rule(lemma='mysz',pos=subst):
                                                 quant(np*case, case=[nom, acc]),
             rule(lemma='gonić',pos=fin):
                                                 (ip<(np*nom))>(np*acc),
             root_rule():
                                                 s % ip,
         },
         ['KOT', 'MYSZ', 'ZDARZENIE'],
             valence_rule('kot', 'noun'): 'KOT',
             valence_rule('mysz', 'noun'): 'MYSZ',
             valence_rule('gonić', 'verb'): 'ZDARZENIE',
         }
     ).dom("Kot goni mysz.")
     #result.show()
     result.save_html('ex3')
```

[3]: <eniam.eniam_core.DomparserResult at 0x10ca9bfd0>

```
['KOT', 'MYSZ', 'ZDARZENIE'],
{
     valence_rule('kot', 'noun'): 'KOT',
     valence_rule('mysz', 'noun'): 'MYSZ',
     valence_rule('gonić', 'verb'): 'ZDARZENIE',
    }
).dom("Kot goni mysz.")

#result.show()
result.save_html('ex5')
```

[4]: <eniam.eniam_core.DomparserResult at 0x10c4eaa50>

```
[5]: \# Ex. 6
     from eniam import *
     result = Eniam(
         [],
         {
             rule(lemma='kot',pos=subst,case=nom):
                                                          nom,
             rule(lemma='mysz',pos=subst,case=acc):
                                                           acc,
             rule(lemma='gonić',pos=fin,person=ter):
                                                          ip[nom | acc],
             root_rule():
                                                           s % ip,
         },
         ['KOT', 'MYSZ', 'ZDARZENIE'],
             valence_rule('kot', 'noun'): 'KOT',
             valence_rule('mysz', 'noun'): 'MYSZ',
             valence_rule('gonić', 'verb'): 'ZDARZENIE',
     ).dom("Kot goni mysz.")
     #result.show()
     result.save_html('ex6')
```

[5]: <eniam.eniam_core.DomparserResult at 0x10caa8f90>

```
{
    valence_rule('łódź', 'noun'): 'L',
    valence_rule('statek', 'noun'): 'S',
    valence_rule('wyprzedzać', 'verb'): 'W',
    }
).dom("Łódź wyprzedza statek.")

#result.show()
result.save_html('ex7')
```

[6]: <eniam.eniam_core.DomparserResult at 0x10c536ed0>

```
[7]: # Ex. 10
     from eniam import *
     result = Eniam(
         [],
         {
             rule(lemma='kot', pos=subst):
                                                          nom,
                                                          (cp>(ip<nom))>nom,
             rule(lemma='który',pos=apron):
             rule(lemma='gonić', pos=fin):
                                                          (ip<nom)>acc,
             rule(lemma='mysz', pos=subst, case=acc):
                                                          acc,
             root_rule():
                                                          s < cp,
         },
         ['KOT', 'MYSZ', 'ZDARZENIE'],
             valence_rule('kot', 'noun'): 'KOT',
             valence_rule('mysz', 'noun'): 'MYSZ',
             valence_rule('gonić', 'verb'): 'ZDARZENIE',
     ).dom("Który kot goni mysz.")
     #result.show()
     result.save_html('ex10')
```

[7]: <eniam.eniam_core.DomparserResult at 0x10cad2f90>

```
},
['KOT', 'ZDARZENIE'],
{
    valence_rule('kot', 'noun'): 'KOT',
    valence_rule('gonić', 'verb'): 'ZDARZENIE',
}
).dom("Co kot goni.")

#result.show()
result.save_html('ex11')
```

[8]: <eniam.eniam_core.DomparserResult at 0x10c536450>

```
[9]: # Ex. 12
     from eniam import *
     result = Eniam(
         [],
         {
             rule(lemma='każdy', pos=subst, case=nom):
                                                           (np*nom) > (n*nom),
             rule(lemma='słoń', pos=subst):
                                                           n*nom,
             rule(lemma='trabić', pos=fin):
                                                           ip < (np*nom),</pre>
             root_rule():
                                                            s < ip
         },
         ['SŁOŃ', 'ZDARZENIE', 'KWANTYFIKATOR'],
             valence_rule('każdy', 'noun'): 'KWANTYFIKATOR',
             valence_rule('słoń', 'noun'): 'SŁOŃ',
             valence_rule('trabić', 'verb'): 'ZDARZENIE',
         }
     ).dom("Każdy słoń trąbi.")
     #result.show()
     result.save_html('ex12')
```

[9]: <eniam.eniam_core.DomparserResult at 0x10caa0fd0>

[10]: <eniam.eniam_core.DomparserResult at 0x109396f90>

```
[11]: # Ex. 14
      from eniam import *
      result = Eniam(
          []
          {
              'lemma=nie,pos=ppron3':
                                                                ip>ip,
              rule(lemma='przerwać', pos=praet, person=pri):
                                                                ip>acc,
              rule(lemma='praca', pos=subst, case=acc):
                                                                acc,
              rule(lemma='praca', pos=subst, case=gen):
                                                                gen,
              root_rule():
                                                                s%ip,
          },
          ['CZYNNOŚĆ', 'ZDARZENIE'],
              valence_rule('praca', 'noun'):
                                                  'CZYNNOŚĆ',
              valence_rule('przerwać', 'verb'):
                                                  'ZDARZENIE',
      ).dom("Przerwał pracę.")
      #result.show()
      result.save_html('ex14')
```

[11]: <eniam.eniam_core.DomparserResult at 0x10ca9b610>

[12]: <eniam.eniam_core.DomparserResult at 0x10caa1610>