Assignment Projective Kann Help

https://powcoder.com



Slides are based on ALE user's guide by Carpenter & Penn http://www.ale.cs.toronto.edu/docs/man/ale_trale_manual.pdf

Running TRALE

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- Use tcsh.
- Remove the default virtual memory limit:
- Starting **TRALE** (ssh with the -X flag):

 $\overset{\text{path to trale/trale -fsg}}{Add}\overset{\text{powcoder}}{WeChat}$

Getting started (1)

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Check lexical entries:

?- lex(puppies).

- chttps://powcoder.com
- Executing a grammar input for parsing:

 ?-AeddhweChat powcoder
 - Input string as a list.
 - No variables in the query.

Getting started (2)

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?- rec[walks, john].

STRING:

- ohttps://powcoder.com
- Other lexical entries, rules, parses:

ANATHERAY WeChat powcoder

The fullstop is necessary with all commands.

Types

- Every feature structure has a type.
- Assignment be lower of the type the large of the type large of the
 - The most general type is bot.
 - E erything is a sub-type of bot A simple type specification: the name of the type, followed by
 - A simple type specification: the name of the type, followed by the keyword sub, followed by a list of its subtypes, e.g.,

Atda We Chat powcoder

- d sub [].
- e sub [].
- c sub [].

Feature structure

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- A collection of feature/value pairs.
- E.g., type vp (with no subtypes) has a feature subj with value nrattps://powcoder.com
 vp sub []

 $\stackrel{\mathtt{intro}}{Add} \stackrel{\mathtt{[subj:np]}.}{WeChat\ powcoder}$

Type system

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- Appropriateness: each type must specify:
 - which type of values such features can take.

Lexicon

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• Adding lexicon:

jattps://powcoder.com

walked ---> vp.

Grammar rules

- Name of the rule: srule.
- Atom rule specifies type of info for ALE compiler.
- Assignmental of the mother: s (nonterminals are lower rated) possible shall also be called the content of the mother stated by Called Examination (1997).
 - Order is important.
 - Add comments (using '%') to explain what your grammar dettps://powcoder.com

```
	extcolor{*}{	iny{*}} Grammmar Rule allowing the combination of
```

```
srule rule
s
===>
cat> np,
cat> vp.
```

Simple grammar

```
% Type Hierarchy
ssignment hrojectre xam Help
np sub [].
vp sub [].
"Lex https://powcoder.com
walked ---> vp.
% Grammar Rules srule And WeChat powcoder
S
===>
cat> np,
cat> vp.
```

Simple grammar

cat> np.

```
ssignment Project Exam Help
p sub [].
np sub [].
with https://powcoder.com
srule rule
PP Add WeChat powcoder
cat> p,
```

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Variables

- Start with upper-case letters.
- straightes with the same name must unify.

 Signment Project Exam Help cat sub [s,np,vp]. sub [] np vp subttps://powcoder.com intro [subj:np]. s sub Ald WeChat powcoder ===> cat > (np, index: Ind), cat > (vp, subj:index:Ind).

INDEX feature

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• Contains agreement features, gender, number, and person.

```
indexhttps://powcoder.com
intro [p:person, num:number, g:gend].

person sub [first, second, third].

numbe Asid [Wre Clarat powcoder
gend sub [n, f, h].
```

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Exercise (1)

• Modify this grammar in a way that parses *I walk*.

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```
np sub [].

vp sub [].

jettps://powcoder.com

walks --> vp.

srule rule
```

*Add WeChat powcoder

```
cat> np,
cat> vp.
```

• Does it parse I walks? or John walk? How can you avoid it?

Exercise (2)

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• Modify the previous grammar in a vay that parses John walks with same S. / POWCOUCH. COM