# 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

### **Getting started (1)**

## Assignment Project Exam Help

- Use tcsh.
- Remove the default virtual memory limit.
  1 initty and you part of the company o
- Starting **TRALE** (ssh with the -X flag): path to trale/trale.-fsg

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

### **Getting started (2)**

• Load grammar:

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?- lex(puppies).

- · Check rules: // powcoder.com
- Input to the parser:

• Other Cardal entries Chates powcoder

ANOTHER? y.

- Lines starting with % are comments.
- The fullstop is necessary with all commands.

### **Types**

- Every feature structure has a type.
- Assignment be lower as the Exam Help
  - 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 nfittps://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.

## Add WeChat powcoder

#### Lexicon

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• Adding lexicon:

jattps://powcoder.com

walked ---> vp.

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7

#### **Grammar rules**

- Name of the rule: srule.
- Atom rule specifies type of info for ALE compiler.

Ass Nonterminal of the mother of (nonterminals are lower fated) p

- Order is important.
- Add comments to explain what your grammar does.

https://powcoder.com
% Grammmar Rule Pallowing the combination of

 ${\it \%}$  np category with a vp type category

## Add WeChat powcoder

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.
```

9

### Simple grammar

cat> np.

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

#### **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

## Assignment Project Exam Help

• 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].
```

12

### Exercise (1)

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

# Assigniment Project Exam Help

```
np sub [].

vp sub [].

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

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