

????1.???????

??????????

spec

# §1 ??

## 1.1 ?????

unit ---

## 1.2 ??

- ---
- --- " / " " ( )

## 1.3 ?????

	§2	unit
	§3	unit / /
unit	§4	+ +













□□	1 □□	unit □□□□□□□□
□□	1 □□	□□□□
□□	0 □ N □□□□□□	□□□□

□□□□□□□□ {□□, □□□□□} □□□□□□ §7.1 context\_mentions □□

□□

```
{□□}[□□]{□□□□□}
{□□□□□□□□□□}[□□]{□□□□□}, {□□□□□□□}
{□□}[□□]() # 0 □□□□
```

## 4.2 ????

□ unit □□□□□□□□□□□□

```
() [□□□□] (□)
```

(□) □□□□□□□□□□□□□□□□ unit □□□□□□□□ (□) □□□□ unit □□□□ (□) □□□□□

□□□□□□□□ unit□□ subject\_mentions / context\_mentions □□□□ (□)[...] (...) □□□□□□□□ unit ID□□□□□ §2.2 □□□□ { } □ ( ... ) □

□□

```
{□□□□□□□□□□}[□□]{□□□□□}, {□□□□□□□}
() [□□]{□□-IAA}
() [□□□□]{2017}
() [□□](□□) # □□□□□□□□
() [□□](low) # □□□□□□□□
```

## 4.3 ??? M[□]B

□□□□□□□□□□□□□□ M[□]B □ unit □□□□□□

□□□□□

1. □□□ □□□ {MB} □□□□ §2.2 □□□
2. M □□□ §2.3 □ hedge □□
3. M□ B □□ standalone □□□□□□□□ { } □ ( ... ) □

1+2

{M} [ ] {B}	{ [ ] } [ ] { [ ] }	{ [ ] }
{M} [ ] (B)	{ [ ] } [ ] ( [ ] )	{ [ ] }
(M) [ ] {B}	( [ ] ) [ ] { [ ] }	{ [ ] }
(M) [ ] (B)	( [ ] GAN ) [ ] ( [ ] )	{ [ ] GAN [ ] }

—M hedge

( [ ] ) [ ] { [ ] }	{ [ ] } [ ] { [ ] } + ( ) [ ] ( [ ] )
( [ ] ) [ ] { [ ] }	{ [ ] } + ( ) [ ] ( [ ] )
( [ ] ) [ ] { [ ] }	{ [ ] } + ( ) [ ] ( [ ] )
( [ ] ) [ ] ( [ ] )	( [ ] ) + ( ) [ ] ( [ ] )

( [ ] ) [ ] {X} [ ] [ X ]

unit

```
{ [ ] GAN [ ] } [ ] { [ ] }
{ [ ] } [ ] { [ ] }
```

unit \$7.1 narrowed\_by

## 4.4 ID

unit ID u\_a / u\_b

/ ... unit

```
{ [ ] } [ ] { [ ] }, { [ ] } # u_a
{ [ ] } [ ] { [ ] }, { [ ] } # u_b
{ [ ] } [ ] { u_a }, { u_b }
( ) [ ] { DeepMind }, { [ ] - IAA }
```

ID unit ID s2.u3

## 4.5

unit



## II ?????????????????

unit / / / ———

unit

- / " " ≠
- " " ≠ " 1997 " ≠

unit ——— /

```
<S>[ ]<P of 0> → {0}[ / ]{P}
+ bridge unit {S}[ ]{0 / }
```

unit / bridge unit  
S unit S {DeepMind}[ ]{X}

unit

```
DeepMind
{ } { }
() { }
() ( )
() {DeepMind}
```

## III ?????????????????

modal / / / / / ——— unit  
unit ID

in order to thereby ——" " [ ]  
unit

```
DeepMind X
{ } # u_a
{ } # u_b
{X}[ ]{u_a}, {u_b}
() [ ]{DeepMind}
```

unit ———



- unit → unit + unit
  - unit → unit / unit
  - / → /
  - → / family + /
  - negates / /
  - family wrapping unit
3. / / / / /
  4. unit → family → ≥1 → \$5
  5. \$5.IV → \$7

# §7 ??

## 7.1 ??????? unit?

wiki family

subject_mentions	→ [unit ID]
context_mentions	→ [ / unit ID]
narrowed_by	→ [ ] unit

"1997" → subject\_mentions[ ] += context\_mentions[ ] += context\_mentions[1997] +=

## 7.2 ????????

≡	unit /	unit
↔		unit
⇒		unit

\$5.IV ⇒

## 7.3 ????

