

SMO??

SMO ??????v2 · scope-based?

SMO

- → SMO \$ PL1-PL4
- → \$ readback surface

SMO.md

```

“ spec/smo_spec.yaml python -m spec.render.instruction
”

```

??????

```

e ::= concept
  | r(e, ...)
  | e : e
  | e > e
  | (e)

: > , ( ) `5
( ) > , > : > >`:`>` `(`)` arg

```

1.1 : (M, H) ?

: M : H -> H' — M H H (M, H)
 → WL2

□□ = □□□□ sig □□□□□□ surfaces □□□□ surface□□□□□□□□ readback □□□□□

□□□□ □□□□□□□□□□□□ canonical □ + sig □□□ □□□ □□ sig □□□□□
surfaces □□□□ readback □□□□□

3.1 scope=slot?????11 ??

□□□□ r(C):V □ B-□□ □□ □□(V) □□□ slot □□ □□(A):□□(B):□□(C):V □□□□□□□□ □□(□□□): (S > V > 0) □

canonical	sig	readback	surfaces □□□□□ = □□□
□□	□□(C):V	□ {arg} {host}	□ , □
□□	□□(C):V	□□ {arg} {host}	□□ , □□ , □□ , □
□□	□□(C):V	□ {arg} {host}	□ , □ , □
□□	□□(C):V	□ {arg} {host}	□ , □
□□	□□(C):V	□ {arg} {host}	□ , □
□□	□□(V)	□ {arg}	□ , □
□□	□□(C):V	□ {arg} {host}	□
□□	□□(C):V	□□ {arg} {host}	□□ , □□ , □□
□□	□□(C):V	□ {arg} {host}□□□□/ {arg} {host}□□□□□□□'□'□	□ (□□□□ /□□)
□□	□□(C):V	□□ {arg} {host}	□□ , □□ , □ ...□□
□□	□□(C):V	□□ {arg} {host}	□□ , □ , □ , □

3.2 scope=gate?????18 ? . ?? r(V) ?

□ graph □□□□ 4 □□

modality□□□□ □ 9 □□

canonical	sig	readback	surfaces □□□□□ = □□□
□□	□□(V)	□ {arg}	□ , □□ , □ (□□)
□□	□□(V)	□□ {arg}	□□ , □ (□□)
□□	□□(V)	□□ {arg}	□□ , □□ , □ , □ , □ (□□)
□□	□□(V)	□□ {arg}	□ , □□ , □□□

canonical	sig	readback	surfaces $\{\dots\}$ =
λ	$\lambda(V)$	$\lambda \{arg\}$	$\lambda, \lambda, \lambda (\lambda)$
λ	$\lambda(V)$	$\lambda \{arg\}$	$\lambda, \lambda, \lambda, \lambda$
λ	$\lambda(V)$	$\lambda \{arg\}$	$\lambda, \lambda, \lambda, \lambda, \lambda, \lambda, \dots (6 \lambda)$
λ	$\lambda(V)$	$\lambda \{arg\}$	$\lambda, \lambda, \lambda, \lambda$
λ	$\lambda(V)$	$\lambda \{arg\}$	$\lambda, \lambda, \lambda, \lambda$

polarity $\{\dots\}$ $\lambda 2 \lambda$

canonical	sig	readback	surfaces $\{\dots\}$ =
λ	$\lambda(V)$	$\lambda \{arg\}$	$\lambda, \lambda, \lambda$
λ	$\lambda(V)$	$\lambda \{arg\}$	$\lambda, \lambda, \lambda$

quantifier $\{\dots\}$ $\lambda 3 \lambda$

canonical	sig	readback	surfaces $\{\dots\}$ =
λ	$\lambda(V)$	$\lambda \{arg\}$	$\lambda, \lambda, \lambda, \lambda, \lambda, \lambda, \dots (8 \lambda)$
λ	$\lambda(V)$	$\lambda \{arg\}$	$\lambda, \lambda, \lambda, \lambda, \lambda, \lambda, \dots (6 \lambda)$
λ	$\lambda(V)$	$\lambda \{arg\}$	$\lambda, \lambda, \lambda$

tense $\{\dots\}$ $\lambda 4 \lambda$

canonical	sig	readback	surfaces $\{\dots\}$ =
λ	$\lambda(V)$	$\{arg\} \lambda$	$\lambda, \lambda, \lambda$
λ	$\lambda(V)$	$\lambda \{arg\}$	$\lambda, \lambda, \lambda (\lambda)$
λ	$\lambda(V)$	$\{arg\} \lambda$	$\lambda, \lambda, \lambda$
λ	$\lambda(V)$	$\lambda \{arg\}$	$\lambda, \lambda, \lambda$

3.3 scope=conn??????13 ? · $r(P, Q)$?

$\{\dots\}$ $\lambda(\lambda(P1, P2), P3) \lambda$

canonical	sig	readback	surfaces $\{a_1, \dots, a_n\}$ =
	$\{P, Q\}$	$\{a_1\} \{a_2\}$	$\{P, Q, R, S, T, \dots\}$ (9)
	$\{P, Q\}$	$\{a_1\} \{a_2\}$	$\{P, Q, R, S, T, \dots\}$ (11)
	$\{P, Q\}$	$\{a_1\} \{a_2\}$	$\{P, Q\}$
	$\{P, Q\}$	$\{a_1\} \{a_2\}$	$\{P, Q, R, S, T, \dots\}$ (7)
	$\{P, Q\}$	$\{a_1\} \{a_2\}$	$\{P, Q, R, S, T, \dots\}$ (7)
	$\{P, Q\}$	$\{a_1\} \{a_2\}$	$\{P, Q, R, S, T, \dots\}$ (8)
	$\{P, Q\}$	$\{a_1\} \{a_2\}$	$\{P, Q, R, S, T, \dots\}$ (11)
	$\{P, Q\}$	$\{a_1\} \{a_2\}$	$\{P, Q, R, S, T, \dots\}$ (9)
	$\{S, T, P\}$	$\{a_1\} \{a_2\} \{a_3\}$	$\{P, Q, R, S, T, \dots\}$ (23)
	$\{P, Q\}$	$\{a_1\} \{a_2\}$	$\{P, Q\}$
	$\{P, Q\}$	$\{a_1\} \{a_2\}$	$\{P, Q, R, S, T, \dots\}$
	$\{P, Q\}$	$\{a_1\} \{a_2\}$	$\{P, Q, R, S, T, \dots\}$
	$\{P, Q\}$	$\{a_1\} \{a_2\}$	$\{P, Q, R, S, T, \dots\}$ (6)

3.4 scope=junct??/?6 ? - $r(X, Y, \dots)$?

$\{P, Q, R, S, T, \dots\}$ concept/cluster $\{P, Q, R, S, T, \dots\}$ --- $\{P, Q, R, S, T, \dots\}$ $\{P, Q, R, S, T, \dots\}$ conn $\{P, Q, R, S, T, \dots\}$

canonical	sig	readback	surfaces $\{a_1, \dots, a_n\}$ =
	$\{X, Y, \dots\}$	$\{a_1\} \{a_2\} \dots \{a_n\}$	$\{P, Q, R, S, T, \dots\}$
	$\{X, Y, \dots\}$	$\{a_1\} \{a_2\} \dots \{a_n\}$	$\{P, Q, R, S, T, \dots\}$
	$\{X, Y\}$	$\{a_1\} \{a_2\}$	$\{P, Q, R, S, T, \dots\}$
	$\{X, Y\}$	$\{a_1\} \{a_2\}$	$\{P, Q, R, S, T, \dots\}$
	$\{X, Y, \dots\}$	$\{a_1\} \{a_2\}$	$\{P, Q, R, S, T, \dots\}$
	$\{X, Y, \dots\}$	$\{a_1\} \{a_2\}$	$\{P, Q, R, S, T, \dots\}$

canonical	sig	readback	surfaces $\square\square\square\square = \square\square$
NP	$\text{NP}(X):\text{cluster}$	$\{arg\}$	(NP), , ,
	$(X):\text{cluster}$	$\{arg\}$,
	$(X):\text{cluster}$	$\{arg\}$, , ,
	$(X):\text{cluster}$	$\{arg\}$, , ,

3.6 ??????????????

v2 canonical $\square\square\square\square$ $\square\square$ $\square\square$ canonical $\square\square\square\square\square\square\square\square\square\square$

$\square\square\square\square$ canonical $\square\square\square\square\square\square\square\square$ concept atom $\square\square$

```

 / /  → 
 /  → 
 / /  → 
 / / /  → 
 / / /  → 
 / / /  → 
 / / /  → 

```

\square canonical \square $\square\square\square\square\square\square\square\square$ $\square\square\square$ $r(\dots)$ $\square\square\square\square$ $>$ $\square\square$ concept \square

```

 (scope=mod) ... > >  → (... > > ) 
 (scope=conn)  > >  → (P, Q) 
 (scope=mod) 
 (scope=mod) 
 (scope=conn) 
 (scope=conn) 
 (scope=gate) F- vs ' X'  concept  (> X)F  / 
 surface 

```

junct $\square\square\square$ \square

```

“ / / / / /  concept/cluster 
  conn 
”

```

F $\square\square\square$ \square



