

Logic for continuation matching:

- Problem Statement ① Whether ~~exit~~ allows continuation
 - problems of multimatching: "Frank passed but intercepted but Tom rushed to touchdown" \Rightarrow Pass, TD, Pass/Int, Rush
- ② Where is the continuation
 - Isolate continuation text identified by major-ParentName
- ③ What is the continuation
 - Run Predice-ParentName() on continuation but the SentenceType?
- * Question: continuation always SCRIM?

Sentence: $A_1 \dots R_1 \dots A_2 \dots R_2$

Logic:

Actions found	↖ ↘	Results found
$\{ A_1 : \text{position_}A_1,$		$\{ R_1 : P_R_1,$
$A_2 : P_A_2 \}$		$R_2 : P_R_2 \}$
\swarrow		\nwarrow
$\downarrow \text{Distance MTX} \Rightarrow d = P_R - P_A.$		
Assuming: 1 action ↓ 1 result: (simple Pass/simple Rush out of consideration)	$\begin{array}{c ccc} & R_1 & R_2 & \\ \hline A_1 & (P_R_1 - P_A_1) & d(R_2 - A_1) & \end{array}$	$\nearrow \text{say } A_1 R_1, A_1 R_2$ $\searrow A_2 R_1, A_2 R_2$
deduction $\left\{ \begin{array}{l} \rightarrow d(R_1 - A_2) < 0. \\ \rightarrow d(R_1 - A_1) < d(R_2 - A_1) \therefore A_1, R_1 \checkmark. A_2 R_2 \times \\ \rightarrow \end{array} \right.$	$d(R_1 - A_2)$ $d(R_2 - A_2)$	$\swarrow \text{all exist in matching tuple dict. otherwise already excluded}$
$\therefore \text{position}(A_1) < \text{position}(A_2) \therefore A_1: \text{major-ParentName}$		
$\text{matching-tuple } (A_1) [2] \Rightarrow \begin{cases} 0: \text{allow conti} \rightarrow \text{conti} = [P(R_1), n] \\ 1: \text{allow no conti} \rightarrow \text{reject } A_2 R_2 + \text{alert} \text{ (multiple match)} \end{cases}$		

Now we have major-ParentName ; conti-text.

Question: Necessary to Run Eot-ParentName () on conti-text?

OR use A2P2 as conti-ParentName directly?

Re-run Eot-ParentName | Just Use A2P2

Pros: > Good for multi-continuation sentences

SIMD symbolic continuation : parent *

Cons: > need input for conti-text's
sentenceType

> to die if have A3P3, A4P4

> Accuracy depend on 1 step prediction

{ B -> B }

{ IA -> IA }

{ S -> S }

{ SA -> SA }

A -> B = B -> A <= XTM

S -> S S -> S

IA -> IA IA -> IA (IA -> IA)

parent : primary

(A -> S) b

(A -> S) b

SA

parent : primary

secondary . till step 2
debutine

O > (A -> S) b

parent : primary

X S A . V IA . (IA -> S) b > (IA -> S) b

V S A

parent : primary