Decoding ‘The red dog ran.’
Decoding ‘The red dog ran.’
Decoding ‘The red dog ran.’

The diagram illustrates the parsing of the sentence 'The red dog ran.' with nodes labeled for 'the', 'red', 'dog', 'ran', and additional nodes for parts of speech and word categories. The diagram shows the syntactic structure and the parsing process with a focus on the time step $t=0.5$. The arrows and connections indicate the flow of parsing decisions, with probabilities represented by $P$. The diagram also includes a calculation of $t=0.5$.
Decoding ‘The red dog ran.’
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Decoding ‘The red dog ran.’

- The red dog ran.
- the red dog ran
- A-aN red
- N-aD dog
- V-aN ran
- A
- T
- B
- S
- T
- F
- t=3.5
Decoding ‘The red dog ran.’

T

N

S

V-aN

A-aN

N-aD

A-aN

N-aD

the

red
dog

ran

+J

t=4
Decoding w. arguments: ‘Everything works.’
Decoding w. arguments: ‘Everything works.’

$t=0$
Decoding w. arguments: ‘Everything works.’
Decoding w. arguments: ‘Everything works.’
Decoding w. arguments: ‘Everything works.’
Decoding w. arguments: ‘Everything works.’
Decoding w. auxiliaries: ‘Everything is here.’
Decoding w. auxiliaries: ‘Everything is here.’
Decoding w. auxiliaries: ‘Everything is here.’
Decoding w. auxiliaries: ‘Everything is here.’

Being A Thing

Every

\(-J_{Aa}
\)

\(t=1\)
Decoding w. auxiliaries: ‘Everything is here.’
Decoding w. auxiliaries: ‘Everything is here.’
Decoding w. auxiliaries: ‘*Everything is here.*’

\[-F\]
\[t=2.5\]
Decoding w. auxiliaries: ‘Everything is here.’
Decoding w. modifiers: ‘Everything here works.’
Decoding w. modifiers: ‘Everything here works.’
Decoding w. modifiers: ‘Everything here works.’

BeingAThing

Every

s

sig

m

0

2

+F

\( t=0.5 \)
Decoding w. modifiers: ‘Everything here works.’
Decoding w. modifiers: ‘Everything here works.’
Decoding w. modifiers: ‘Everything here works.’
Decoding w. modifiers: ‘Everything here works.’
Decoding w. modifiers: ‘Everything here works.’
Decoding conjunctions: ‘**Everything starts, runs & stops.**’
Decoding conjunctions: ‘Everything starts, runs & stops.’
Decoding conjunctions: ‘Everything starts, runs & stops.’
Decoding conjunctions: ‘*Everything starts, runs & stops.*’
Decoding conjunctions: ‘Everything starts, runs & stops.’
Decoding conjunctions: ‘Everything starts, runs & stops.’

\[\text{BeingAThing} \Rightarrow \text{Starting} \Rightarrow +J_{Ca} t=2\]
Decoding conjunctions: ‘Everything starts, runs & stops.’
Decoding conjunctions: ‘Everything starts, runs & stops.’
Decoding conjunctions: ‘Everything starts, runs & stops.’
Decoding conjunctions: ‘Everything starts, runs & stops.’
Decoding conjunctions: ‘Everything starts, runs & stops.’

- Decoding: A, B, and T
  - A starts at 0
  - B starts at 0
  - T starts at 0

- Components: N, V-aN, V-aN-c(V-aN), V-aN-c(V-aN)-d(V-aN)

- States: Start, Running, Stop
  - Start: BeingAThing
  - Running: Every, Being, Starting, Running, Stopping
  - Stop: S

- Time: t=4.5

- Formula: \(-F = 4.5\)
Decoding conjunctions: ‘Everything starts, runs & stops.’
Decoding w. gap fillers: ‘Everything here someone likes.’
Decoding w. gap fillers: ‘Everything here someone likes.’
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Decoding w. gap fillers: ‘Everything here someone likes.’
Decoding w. gap fillers: ‘Everything here someone likes.’
Decoding w. gap fillers: ‘Everything here someone likes.’
Decoding w. gap fillers: ‘Everything here someone likes.’
Decoding w. gap fillers: ‘Everything stops that starts.’
Decoding w. gap fillers: ‘Everything stops that starts.’
Decoding w. gap fillers: ‘Everything stops that starts.’
Decoding w. gap fillers: ‘Everything stops that starts.’
Decoding w. gap fillers: ‘Everything stops that starts.’
Decoding w. gap fillers: ‘Everything stops that starts.’
Decoding w. gap fillers: ‘Everything stops that starts.’
Decoding w. gap fillers: ‘Everything stops that starts.’
Decoding w. gap fillers: ‘Everything stops that starts.’

Every BeingAThing

Stopping

Starting

$-F_{Ea,N}$
$t=3.5$
Decoding w. gap fillers: ‘Everything stops that starts.’