Procedure Discovery
for Time Expression Understanding

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Existing Lexicon

"tomorrow" : (\t (\t (add t 1 'day))
"Thursday" : (\t (\t (near t #:day-of-week 4))
"May Day" : (\t (\t (near t #:month 5 #:day 1))
...}

Unseen Word

"Thursday" : (\t (\t (near t #:day-of-week 4))
"Earth Day" : (\t (\t (near t #:month 11 #:day-of-week 4 #:nth 4))
VAL="2003-04-22"
"World AIDS Day" : (\t (\t (near t #:month 11 #:day 1))
VAL="2001-09-11"
"Veterans Day" : (\t (\t (near t #:month 5 #:day 1))
VAL="2003-04-22"
"May Day" : (\t (\t (near t #:month 5 #:day 1))
VAL="2003-04-22"
"Thanksgiving" : (\t (\t (near t #:month 4 #:day 22))

Unseen Meaning

"9/11" : (\t (\t (set-value t "2001-09-11"))

Learned Semantics

"9/11" : (\t (\t (set-value t "2001-09-11"))
"Thursday" : (\t (\t (near t #:day-of-week 4))
"Earth Day" : (\t (\t (near t #:month 4 #:day 22))

Source Semantics

(\t (\t (near t #:month 5 #:day 1))
(\t (\t (near t #:month 11 #:day 1))
(\t (\t (near t #:month 11 #:day-of-week 4 #:nth 4))