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## Instructions

Add your transcript for Task 5 below. Use the same format, i.e. Courier New 11pt for the transcript, Times New Roman 11pt for the analysis at the end of each query.

Then fill in the table of results at the bottom.

## Transcript (Task 5)

[Please follow this typography. The output comes exactly from aqu\_answer\_the\_questions(). You copy that output here, for all 20 queries, and just add your analysis at the end of each query.

Python 3.10.12 (main, Jun 8 2023, 17:32:40) [MSC v.1936 64 bit (AMD64)] on win32

Type "help", "copyright", "credits" or "license()" for more information.

=================== RESTART: M:\ir\aqu\_answer\_question\_v3.py ===================

Python 3.10.12 (main, Jun 8 2023, 17:32:40) [MSC v.1936 64 bit (AMD64)] on win32

Type "help", "copyright", "credits" or "license()" for more information.

=================== RESTART: M:\ir\aqu\_answer\_question\_v3.py ===================

Query: Who is the keyboardist in the band Dire Straits

Gold type: person

Returned type: person

CORRECT

Query: What is the capital of France

Gold type: location

Returned type: location

CORRECT

Accuracy: 100.0%

Number of queries in Gold Standard: 20

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original\_query:

what is Beyoncé Knowles-Carter known for?

search\_tokens extracted:

['what', 'be', 'Beyoncé', 'Knowles', '-', 'Carter', 'know', 'for', '?']

query\_type\_json: unknown

query\_type\_spacy: PERSON

Elastic query submitted with search\_tokens\_string:

{'multi\_match': {'query': 'what be Beyoncé Knowles - Carter know for ?', 'fields': [], 'type': 'best\_fields'}}

result\_text\_list:

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Looking at a para, searching for answers:

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Named Entities recognised and search\_tokens marked as KEYWORD:

['"', ('PERSON', 1, ['Kitty', 'Kat']), '"', ('KEYWORD', 1, 'be'), 'a', 'song', 'by', 'american', 'singer', ('PERSON', 2, ['Beyoncé']), ('KEYWORD', 2, 'for'), 'her', 'second', 'studio', 'album', ',', ('PERSON', 3, ["B'Day"]), '(', '2006', ')', '.', 'it', ('KEYWORD', 3, 'be'), 'compose', 'by', ('KEYWORD', 4, 'Beyoncé'), ',', ('PERSON', 4, ['Pharrell', 'Williams']), ',', 'and', ('PERSON', 5, ['Shawn', 'Carter']), '.', '"', ('PERSON', 6, ['Kitty', 'Kat']), '"', ('KEYWORD', 5, 'be'), 'a', 'mid', ('KEYWORD', 6, '-'), 'tempo', 'electro', ',', 'hip', 'hop', 'soul', 'and', 'R&B', 'song', 'whose', 'lyric', 'detail', 'a', 'situation', 'where', 'a', 'woman', 'feel', 'that', 'her', 'man', 'have', 'underestimate', 'she', '.', 'the', 'song', ('KEYWORD', 7, 'be'), 'generally', 'well', 'receive', 'by', 'music', 'critic', 'who', 'note', 'it', 'to', ('KEYWORD', 8, 'be'), 'a', 'seductive', 'track', 'thank', 'to', 'its', '"', 'I', ('KEYWORD', 9, 'be'), 'not', 'feelin[g', ']', 'it', '"', 'vibe', '.', 'however', ',', 'some', 'music', 'critic', 'feel', 'that', 'the', 'production', 'do', 'not', 'live', 'up', 'to', 'those', 'of', 'other', 'song', 'feature', 'on', ('PERSON', 7, ["B'Day"]), '.']

Named Entities listed with position of each (1st word is number 0):

[(('PERSON', 1, ['Kitty', 'Kat']), 1), (('PERSON', 2, ['Beyoncé']), 9), (('PERSON', 3, ["B'Day"]), 16), (('PERSON', 4, ['Pharrell', 'Williams']), 27), (('PERSON', 5, ['Shawn', 'Carter']), 30), (('PERSON', 6, ['Kitty', 'Kat']), 33), (('PERSON', 7, ["B'Day"]), 114)]

KEYWORDS listed with position of each:

[(('KEYWORD', 1, 'be'), 3), (('KEYWORD', 2, 'for'), 10), (('KEYWORD', 3, 'be'), 22), (('KEYWORD', 4, 'Beyoncé'), 25), (('KEYWORD', 5, 'be'), 35), (('KEYWORD', 6, '-'), 38), (('KEYWORD', 7, 'be'), 66), (('KEYWORD', 8, 'be'), 77), (('KEYWORD', 9, 'be'), 86)]

NE(s) in the sentence with contribution of each KEYWORD to NE score:

NE is (('PERSON', 1, ['Kitty', 'Kat']), 1) posn is 1

Contribution of (('KEYWORD', 1, 'be'), 3) is 2

Contribution of (('KEYWORD', 2, 'for'), 10) is 9

Contribution of (('KEYWORD', 3, 'be'), 22) is 21

Contribution of (('KEYWORD', 4, 'Beyoncé'), 25) is 24

Contribution of (('KEYWORD', 5, 'be'), 35) is 34

Contribution of (('KEYWORD', 6, '-'), 38) is 37

Contribution of (('KEYWORD', 7, 'be'), 66) is 65

Contribution of (('KEYWORD', 8, 'be'), 77) is 76

Contribution of (('KEYWORD', 9, 'be'), 86) is 85

So, score for (('PERSON', 1, ['Kitty', 'Kat']), 1) is 353

NE is (('PERSON', 2, ['Beyoncé']), 9) posn is 9

Contribution of (('KEYWORD', 1, 'be'), 3) is 6

Contribution of (('KEYWORD', 2, 'for'), 10) is 1

Contribution of (('KEYWORD', 3, 'be'), 22) is 13

Contribution of (('KEYWORD', 4, 'Beyoncé'), 25) is 16

Contribution of (('KEYWORD', 5, 'be'), 35) is 26

Contribution of (('KEYWORD', 6, '-'), 38) is 29

Contribution of (('KEYWORD', 7, 'be'), 66) is 57

Contribution of (('KEYWORD', 8, 'be'), 77) is 68

Contribution of (('KEYWORD', 9, 'be'), 86) is 77

So, score for (('PERSON', 2, ['Beyoncé']), 9) is 293

NE is (('PERSON', 3, ["B'Day"]), 16) posn is 16

Contribution of (('KEYWORD', 1, 'be'), 3) is 13

Contribution of (('KEYWORD', 2, 'for'), 10) is 6

Contribution of (('KEYWORD', 3, 'be'), 22) is 6

Contribution of (('KEYWORD', 4, 'Beyoncé'), 25) is 9

Contribution of (('KEYWORD', 5, 'be'), 35) is 19

Contribution of (('KEYWORD', 6, '-'), 38) is 22

Contribution of (('KEYWORD', 7, 'be'), 66) is 50

Contribution of (('KEYWORD', 8, 'be'), 77) is 61

Contribution of (('KEYWORD', 9, 'be'), 86) is 70

So, score for (('PERSON', 3, ["B'Day"]), 16) is 256

NE is (('PERSON', 4, ['Pharrell', 'Williams']), 27) posn is 27

Contribution of (('KEYWORD', 1, 'be'), 3) is 24

Contribution of (('KEYWORD', 2, 'for'), 10) is 17

Contribution of (('KEYWORD', 3, 'be'), 22) is 5

Contribution of (('KEYWORD', 4, 'Beyoncé'), 25) is 2

Contribution of (('KEYWORD', 5, 'be'), 35) is 8

Contribution of (('KEYWORD', 6, '-'), 38) is 11

Contribution of (('KEYWORD', 7, 'be'), 66) is 39

Contribution of (('KEYWORD', 8, 'be'), 77) is 50

Contribution of (('KEYWORD', 9, 'be'), 86) is 59

So, score for (('PERSON', 4, ['Pharrell', 'Williams']), 27) is 215

NE is (('PERSON', 5, ['Shawn', 'Carter']), 30) posn is 30

Contribution of (('KEYWORD', 1, 'be'), 3) is 27

Contribution of (('KEYWORD', 2, 'for'), 10) is 20

Contribution of (('KEYWORD', 3, 'be'), 22) is 8

Contribution of (('KEYWORD', 4, 'Beyoncé'), 25) is 5

Contribution of (('KEYWORD', 5, 'be'), 35) is 5

Contribution of (('KEYWORD', 6, '-'), 38) is 8

Contribution of (('KEYWORD', 7, 'be'), 66) is 36

Contribution of (('KEYWORD', 8, 'be'), 77) is 47

Contribution of (('KEYWORD', 9, 'be'), 86) is 56

So, score for (('PERSON', 5, ['Shawn', 'Carter']), 30) is 212

NE is (('PERSON', 6, ['Kitty', 'Kat']), 33) posn is 33

Contribution of (('KEYWORD', 1, 'be'), 3) is 30

Contribution of (('KEYWORD', 2, 'for'), 10) is 23

Contribution of (('KEYWORD', 3, 'be'), 22) is 11

Contribution of (('KEYWORD', 4, 'Beyoncé'), 25) is 8

Contribution of (('KEYWORD', 5, 'be'), 35) is 2

Contribution of (('KEYWORD', 6, '-'), 38) is 5

Contribution of (('KEYWORD', 7, 'be'), 66) is 33

Contribution of (('KEYWORD', 8, 'be'), 77) is 44

Contribution of (('KEYWORD', 9, 'be'), 86) is 53

So, score for (('PERSON', 6, ['Kitty', 'Kat']), 33) is 209

NE is (('PERSON', 7, ["B'Day"]), 114) posn is 114

Contribution of (('KEYWORD', 1, 'be'), 3) is 111

Contribution of (('KEYWORD', 2, 'for'), 10) is 104

Contribution of (('KEYWORD', 3, 'be'), 22) is 92

Contribution of (('KEYWORD', 4, 'Beyoncé'), 25) is 89

Contribution of (('KEYWORD', 5, 'be'), 35) is 79

Contribution of (('KEYWORD', 6, '-'), 38) is 76

Contribution of (('KEYWORD', 7, 'be'), 66) is 48

Contribution of (('KEYWORD', 8, 'be'), 77) is 37

Contribution of (('KEYWORD', 9, 'be'), 86) is 28

So, score for (('PERSON', 7, ["B'Day"]), 114) is 664

(Lower NE score means better match but zero score means no KEYWORDs in sentence.)

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Looking at a para, searching for answers:

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Named Entities recognised and search\_tokens marked as KEYWORD:

['"', ('PERSON', 1, ['Kitty', 'Kat']), '"', ('KEYWORD', 1, 'be'), 'never', 'release', 'as', 'a', 'single', 'but', 'it', 'garner', 'airplay', 'on', 'R&B', 'radio', 'station', ',', 'thus', 'manage', 'to', 'chart', 'on', 'the', 'US', 'Hot', 'R&B', '/', 'Hip', ('KEYWORD', 2, '-'), 'Hop', 'Songs', 'chart', ',', 'where', 'it', 'reach', 'a', 'high', 'point', 'of', 'number', '66', 'in', 'May', '2007', '.', 'the', 'accompany', 'music', 'video', ('KEYWORD', 3, 'for'), 'the', 'song', ('KEYWORD', 4, 'be'), 'direct', 'by', 'Melina', 'Matsoukas', 'and', 'co', ('KEYWORD', 5, '-'), 'direct', 'by', ('KEYWORD', 6, 'Knowles'), ('KEYWORD', 7, 'for'), 'the', "B'Day", 'Anthology', 'Video', 'Album', '(', '2007', ')', '.', 'it', ('KEYWORD', 8, 'be'), 'only', 'one', ('KEYWORD', 9, '-'), 'minute', 'long', 'and', 'it', 'serve', 'as', 'the', 'introduction', 'of', 'the', 'music', 'video', ('KEYWORD', 10, 'for'), '"', 'Green', 'Light', '"', '(', '2007', ')', '.', 'the', 'video', ('KEYWORD', 11, 'for'), '"', ('PERSON', 2, ['Kitty', 'Kat']), '"', 'feature', ('KEYWORD', 12, 'Knowles'), 'show', 'cat', ('KEYWORD', 13, '-'), 'like', 'eye', 'with', 'leopard', 'print', 'make', ('KEYWORD', 14, '-'), 'up', 'and', 'fashion', 'on', '.', 'in', 'some', 'part', 'of', 'the', 'clip', ',', ('KEYWORD', 15, 'Knowles'), 'ride', 'on', 'an', 'oversized', 'black', 'cat', '.']

Named Entities listed with position of each (1st word is number 0):

[(('PERSON', 1, ['Kitty', 'Kat']), 1), (('PERSON', 2, ['Kitty', 'Kat']), 105)]

KEYWORDS listed with position of each:

[(('KEYWORD', 1, 'be'), 3), (('KEYWORD', 2, '-'), 29), (('KEYWORD', 3, 'for'), 51), (('KEYWORD', 4, 'be'), 54), (('KEYWORD', 5, '-'), 61), (('KEYWORD', 6, 'Knowles'), 64), (('KEYWORD', 7, 'for'), 65), (('KEYWORD', 8, 'be'), 76), (('KEYWORD', 9, '-'), 79), (('KEYWORD', 10, 'for'), 92), (('KEYWORD', 11, 'for'), 103), (('KEYWORD', 12, 'Knowles'), 108), (('KEYWORD', 13, '-'), 111), (('KEYWORD', 14, '-'), 118), (('KEYWORD', 15, 'Knowles'), 131)]

NE(s) in the sentence with contribution of each KEYWORD to NE score:

NE is (('PERSON', 1, ['Kitty', 'Kat']), 1) posn is 1

Contribution of (('KEYWORD', 1, 'be'), 3) is 2

Contribution of (('KEYWORD', 2, '-'), 29) is 28

Contribution of (('KEYWORD', 3, 'for'), 51) is 50

Contribution of (('KEYWORD', 4, 'be'), 54) is 53

Contribution of (('KEYWORD', 5, '-'), 61) is 60

Contribution of (('KEYWORD', 6, 'Knowles'), 64) is 63

Contribution of (('KEYWORD', 7, 'for'), 65) is 64

Contribution of (('KEYWORD', 8, 'be'), 76) is 75

Contribution of (('KEYWORD', 9, '-'), 79) is 78

Contribution of (('KEYWORD', 10, 'for'), 92) is 91

Contribution of (('KEYWORD', 11, 'for'), 103) is 102

Contribution of (('KEYWORD', 12, 'Knowles'), 108) is 107

Contribution of (('KEYWORD', 13, '-'), 111) is 110

Contribution of (('KEYWORD', 14, '-'), 118) is 117

Contribution of (('KEYWORD', 15, 'Knowles'), 131) is 130

So, score for (('PERSON', 1, ['Kitty', 'Kat']), 1) is 1130

NE is (('PERSON', 2, ['Kitty', 'Kat']), 105) posn is 105

Contribution of (('KEYWORD', 1, 'be'), 3) is 102

Contribution of (('KEYWORD', 2, '-'), 29) is 76

Contribution of (('KEYWORD', 3, 'for'), 51) is 54

Contribution of (('KEYWORD', 4, 'be'), 54) is 51

Contribution of (('KEYWORD', 5, '-'), 61) is 44

Contribution of (('KEYWORD', 6, 'Knowles'), 64) is 41

Contribution of (('KEYWORD', 7, 'for'), 65) is 40

Contribution of (('KEYWORD', 8, 'be'), 76) is 29

Contribution of (('KEYWORD', 9, '-'), 79) is 26

Contribution of (('KEYWORD', 10, 'for'), 92) is 13

Contribution of (('KEYWORD', 11, 'for'), 103) is 2

Contribution of (('KEYWORD', 12, 'Knowles'), 108) is 3

Contribution of (('KEYWORD', 13, '-'), 111) is 6

Contribution of (('KEYWORD', 14, '-'), 118) is 13

Contribution of (('KEYWORD', 15, 'Knowles'), 131) is 26

So, score for (('PERSON', 2, ['Kitty', 'Kat']), 105) is 526

(Lower NE score means better match but zero score means no KEYWORDs in sentence.)

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Looking at a para, searching for answers:

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Named Entities recognised and search\_tokens marked as KEYWORD:

['"', ('PERSON', 1, ['Kitty', 'Kat']), '"', ('KEYWORD', 1, 'be'), 'conceive', 'partly', 'at', 'the', 'Sony', 'Music', 'Studios', ',', 'in', 'New', 'York', 'City', 'and', 'the', 'Record', 'Plant', 'Studios', ',', 'in', 'Los', 'Angeles', '.', 'it', 'see', 'songwrite', 'duty', 'by', ('KEYWORD', 2, 'Knowles'), ',', ('PERSON', 2, ['Pharrell', 'Williams']), ',', 'as', 'well', 'as', ('PERSON', 3, ['Shawn', 'Carter']), ',', 'and', 'utilize', 'production', 'from', 'the', ('PERSON', 4, ['Neptunes']), ',', 'compromise', 'of', ('PERSON', 5, ['Williams']), 'and', ('PERSON', 6, ['Chad', 'Hugo']), '.', 'the', 'latter', 'also', 'produce', 'the', 'song', '"', 'Green', 'Light', '"', '(', '2006', ')', '.', ('PERSON', 7, ['Jason', 'Goldstein']), 'mix', '"', ('PERSON', 8, ['Kitty', 'Kat']), '"', 'with', 'assistance', 'from', ('PERSON', 9, ['Steve', 'Tolle']), '.', 'concern', 'the', 'song', ',', ('PERSON', 10, ['Knowles']), 'tell', 'MTV', ':', '"', '[', ('PERSON', 11, ['Kitty', 'Kat', ']']), ('KEYWORD', 3, 'be'), '[', 'a', ']', 'very', 'sexy', '[', 'song', ']', ',', 'talk', 'about', 'a', 'man', 'who', ('KEYWORD', 4, 'be'), 'out', 'with', 'friend', 'all', 'night', 'and', 'you', ('KEYWORD', 5, 'be'), 'leave', 'at', 'home', '.', 'and', 'you', ('KEYWORD', 6, 'be'), 'like', ',', "'", 'no', 'more', 'of', 'this', '.', 'it', ('KEYWORD', 7, 'be'), 'time', 'to', 'go', '.', "'", '"', 'the', 'song', 'appear', 'online', 'through', 'the', 'website', 'of', 'Rap', ('KEYWORD', 8, '-'), 'up', 'magazine', 'on', 'August', '23', ',', '2006', ',', 'prior', 'to', 'the', 'release', 'of', "B'Day", '.']

Named Entities listed with position of each (1st word is number 0):

[(('PERSON', 1, ['Kitty', 'Kat']), 1), (('PERSON', 2, ['Pharrell', 'Williams']), 33), (('PERSON', 3, ['Shawn', 'Carter']), 38), (('PERSON', 4, ['Neptunes']), 45), (('PERSON', 5, ['Williams']), 49), (('PERSON', 6, ['Chad', 'Hugo']), 51), (('PERSON', 7, ['Jason', 'Goldstein']), 67), (('PERSON', 8, ['Kitty', 'Kat']), 70), (('PERSON', 9, ['Steve', 'Tolle']), 75), (('PERSON', 10, ['Knowles']), 81), (('PERSON', 11, ['Kitty', 'Kat', ']']), 87)]

KEYWORDS listed with position of each:

[(('KEYWORD', 1, 'be'), 3), (('KEYWORD', 2, 'Knowles'), 31), (('KEYWORD', 3, 'be'), 88), (('KEYWORD', 4, 'be'), 103), (('KEYWORD', 5, 'be'), 111), (('KEYWORD', 6, 'be'), 118), (('KEYWORD', 7, 'be'), 128), (('KEYWORD', 8, '-'), 144)]

NE(s) in the sentence with contribution of each KEYWORD to NE score:

NE is (('PERSON', 1, ['Kitty', 'Kat']), 1) posn is 1

Contribution of (('KEYWORD', 1, 'be'), 3) is 2

Contribution of (('KEYWORD', 2, 'Knowles'), 31) is 30

Contribution of (('KEYWORD', 3, 'be'), 88) is 87

Contribution of (('KEYWORD', 4, 'be'), 103) is 102

Contribution of (('KEYWORD', 5, 'be'), 111) is 110

Contribution of (('KEYWORD', 6, 'be'), 118) is 117

Contribution of (('KEYWORD', 7, 'be'), 128) is 127

Contribution of (('KEYWORD', 8, '-'), 144) is 143

So, score for (('PERSON', 1, ['Kitty', 'Kat']), 1) is 718

NE is (('PERSON', 2, ['Pharrell', 'Williams']), 33) posn is 33

Contribution of (('KEYWORD', 1, 'be'), 3) is 30

Contribution of (('KEYWORD', 2, 'Knowles'), 31) is 2

Contribution of (('KEYWORD', 3, 'be'), 88) is 55

Contribution of (('KEYWORD', 4, 'be'), 103) is 70

Contribution of (('KEYWORD', 5, 'be'), 111) is 78

Contribution of (('KEYWORD', 6, 'be'), 118) is 85

Contribution of (('KEYWORD', 7, 'be'), 128) is 95

Contribution of (('KEYWORD', 8, '-'), 144) is 111

So, score for (('PERSON', 2, ['Pharrell', 'Williams']), 33) is 526

NE is (('PERSON', 3, ['Shawn', 'Carter']), 38) posn is 38

Contribution of (('KEYWORD', 1, 'be'), 3) is 35

Contribution of (('KEYWORD', 2, 'Knowles'), 31) is 7

Contribution of (('KEYWORD', 3, 'be'), 88) is 50

Contribution of (('KEYWORD', 4, 'be'), 103) is 65

Contribution of (('KEYWORD', 5, 'be'), 111) is 73

Contribution of (('KEYWORD', 6, 'be'), 118) is 80

Contribution of (('KEYWORD', 7, 'be'), 128) is 90

Contribution of (('KEYWORD', 8, '-'), 144) is 106

So, score for (('PERSON', 3, ['Shawn', 'Carter']), 38) is 506

NE is (('PERSON', 4, ['Neptunes']), 45) posn is 45

Contribution of (('KEYWORD', 1, 'be'), 3) is 42

Contribution of (('KEYWORD', 2, 'Knowles'), 31) is 14

Contribution of (('KEYWORD', 3, 'be'), 88) is 43

Contribution of (('KEYWORD', 4, 'be'), 103) is 58

Contribution of (('KEYWORD', 5, 'be'), 111) is 66

Contribution of (('KEYWORD', 6, 'be'), 118) is 73

Contribution of (('KEYWORD', 7, 'be'), 128) is 83

Contribution of (('KEYWORD', 8, '-'), 144) is 99

So, score for (('PERSON', 4, ['Neptunes']), 45) is 478

NE is (('PERSON', 5, ['Williams']), 49) posn is 49

Contribution of (('KEYWORD', 1, 'be'), 3) is 46

Contribution of (('KEYWORD', 2, 'Knowles'), 31) is 18

Contribution of (('KEYWORD', 3, 'be'), 88) is 39

Contribution of (('KEYWORD', 4, 'be'), 103) is 54

Contribution of (('KEYWORD', 5, 'be'), 111) is 62

Contribution of (('KEYWORD', 6, 'be'), 118) is 69

Contribution of (('KEYWORD', 7, 'be'), 128) is 79

Contribution of (('KEYWORD', 8, '-'), 144) is 95

So, score for (('PERSON', 5, ['Williams']), 49) is 462

NE is (('PERSON', 6, ['Chad', 'Hugo']), 51) posn is 51

Contribution of (('KEYWORD', 1, 'be'), 3) is 48

Contribution of (('KEYWORD', 2, 'Knowles'), 31) is 20

Contribution of (('KEYWORD', 3, 'be'), 88) is 37

Contribution of (('KEYWORD', 4, 'be'), 103) is 52

Contribution of (('KEYWORD', 5, 'be'), 111) is 60

Contribution of (('KEYWORD', 6, 'be'), 118) is 67

Contribution of (('KEYWORD', 7, 'be'), 128) is 77

Contribution of (('KEYWORD', 8, '-'), 144) is 93

So, score for (('PERSON', 6, ['Chad', 'Hugo']), 51) is 454

NE is (('PERSON', 7, ['Jason', 'Goldstein']), 67) posn is 67

Contribution of (('KEYWORD', 1, 'be'), 3) is 64

Contribution of (('KEYWORD', 2, 'Knowles'), 31) is 36

Contribution of (('KEYWORD', 3, 'be'), 88) is 21

Contribution of (('KEYWORD', 4, 'be'), 103) is 36

Contribution of (('KEYWORD', 5, 'be'), 111) is 44

Contribution of (('KEYWORD', 6, 'be'), 118) is 51

Contribution of (('KEYWORD', 7, 'be'), 128) is 61

Contribution of (('KEYWORD', 8, '-'), 144) is 77

So, score for (('PERSON', 7, ['Jason', 'Goldstein']), 67) is 390

NE is (('PERSON', 8, ['Kitty', 'Kat']), 70) posn is 70

Contribution of (('KEYWORD', 1, 'be'), 3) is 67

Contribution of (('KEYWORD', 2, 'Knowles'), 31) is 39

Contribution of (('KEYWORD', 3, 'be'), 88) is 18

Contribution of (('KEYWORD', 4, 'be'), 103) is 33

Contribution of (('KEYWORD', 5, 'be'), 111) is 41

Contribution of (('KEYWORD', 6, 'be'), 118) is 48

Contribution of (('KEYWORD', 7, 'be'), 128) is 58

Contribution of (('KEYWORD', 8, '-'), 144) is 74

So, score for (('PERSON', 8, ['Kitty', 'Kat']), 70) is 378

NE is (('PERSON', 9, ['Steve', 'Tolle']), 75) posn is 75

Contribution of (('KEYWORD', 1, 'be'), 3) is 72

Contribution of (('KEYWORD', 2, 'Knowles'), 31) is 44

Contribution of (('KEYWORD', 3, 'be'), 88) is 13

Contribution of (('KEYWORD', 4, 'be'), 103) is 28

Contribution of (('KEYWORD', 5, 'be'), 111) is 36

Contribution of (('KEYWORD', 6, 'be'), 118) is 43

Contribution of (('KEYWORD', 7, 'be'), 128) is 53

Contribution of (('KEYWORD', 8, '-'), 144) is 69

So, score for (('PERSON', 9, ['Steve', 'Tolle']), 75) is 358

NE is (('PERSON', 10, ['Knowles']), 81) posn is 81

Contribution of (('KEYWORD', 1, 'be'), 3) is 78

Contribution of (('KEYWORD', 2, 'Knowles'), 31) is 50

Contribution of (('KEYWORD', 3, 'be'), 88) is 7

Contribution of (('KEYWORD', 4, 'be'), 103) is 22

Contribution of (('KEYWORD', 5, 'be'), 111) is 30

Contribution of (('KEYWORD', 6, 'be'), 118) is 37

Contribution of (('KEYWORD', 7, 'be'), 128) is 47

Contribution of (('KEYWORD', 8, '-'), 144) is 63

So, score for (('PERSON', 10, ['Knowles']), 81) is 334

NE is (('PERSON', 11, ['Kitty', 'Kat', ']']), 87) posn is 87

Contribution of (('KEYWORD', 1, 'be'), 3) is 84

Contribution of (('KEYWORD', 2, 'Knowles'), 31) is 56

Contribution of (('KEYWORD', 3, 'be'), 88) is 1

Contribution of (('KEYWORD', 4, 'be'), 103) is 16

Contribution of (('KEYWORD', 5, 'be'), 111) is 24

Contribution of (('KEYWORD', 6, 'be'), 118) is 31

Contribution of (('KEYWORD', 7, 'be'), 128) is 41

Contribution of (('KEYWORD', 8, '-'), 144) is 57

So, score for (('PERSON', 11, ['Kitty', 'Kat', ']']), 87) is 310

(Lower NE score means better match but zero score means no KEYWORDs in sentence.)

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Looking at a para, searching for answers:

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Named Entities recognised and search\_tokens marked as KEYWORD:

['"', 'flaw', 'and', 'all', '"', ('KEYWORD', 1, 'be'), 'a', 'song', 'record', 'by', 'american', 'singer', ('PERSON', 1, ['Beyoncé']), 'from', 'the', 'deluxe', 'edition', 'of', 'her', 'second', 'studio', 'album', ',', ('PERSON', 2, ["B'Day"]), '(', '2006', ')', '.', 'it', ('KEYWORD', 2, 'be'), 'compose', 'by', 'Ne', ('KEYWORD', 3, '-'), 'Yo', ',', ('PERSON', 3, ['Shea', 'Taylor']), ',', ('KEYWORD', 4, 'Beyoncé'), 'and', 'Solange', ('KEYWORD', 5, 'Knowles'), ',', 'while', ('KEYWORD', 6, 'Beyoncé'), ('KEYWORD', 7, 'Knowles'), 'and', ('PERSON', 4, ['Taylor']), 'produce', 'it', '.', 'in', 'the', 'R&B', 'song', ',', ('KEYWORD', 8, 'Beyoncé'), 'show', 'appreciation', ('KEYWORD', 9, 'for'), 'the', 'love', 'give', 'by', 'her', 'man', ',', 'who', 'see', 'through', 'all', 'of', 'her', 'flaw', 'and', 'love', 'she', 'unconditionally', '.', '"', 'flaw', 'and', 'all', '"', 'receive', 'positive', 'review', 'from', 'critic', ',', 'who', 'laud', ('KEYWORD', 10, 'Beyoncé'), "'s", 'emotion', 'and', 'vulnerability', 'on', 'the', 'track', '.', 'some', 'critic', 'also', 'note', 'that', 'the', 'song', ('KEYWORD', 11, 'be'), 'well', 'than', 'some', 'of', 'the', 'song', 'on', 'the', 'standard', 'edition', 'of', ('PERSON', 5, ["B'Day"]), '.']

Named Entities listed with position of each (1st word is number 0):

[(('PERSON', 1, ['Beyoncé']), 12), (('PERSON', 2, ["B'Day"]), 23), (('PERSON', 3, ['Shea', 'Taylor']), 36), (('PERSON', 4, ['Taylor']), 47), (('PERSON', 5, ["B'Day"]), 120)]

KEYWORDS listed with position of each:

[(('KEYWORD', 1, 'be'), 5), (('KEYWORD', 2, 'be'), 29), (('KEYWORD', 3, '-'), 33), (('KEYWORD', 4, 'Beyoncé'), 38), (('KEYWORD', 5, 'Knowles'), 41), (('KEYWORD', 6, 'Beyoncé'), 44), (('KEYWORD', 7, 'Knowles'), 45), (('KEYWORD', 8, 'Beyoncé'), 56), (('KEYWORD', 9, 'for'), 59), (('KEYWORD', 10, 'Beyoncé'), 92), (('KEYWORD', 11, 'be'), 108)]

NE(s) in the sentence with contribution of each KEYWORD to NE score:

NE is (('PERSON', 1, ['Beyoncé']), 12) posn is 12

Contribution of (('KEYWORD', 1, 'be'), 5) is 7

Contribution of (('KEYWORD', 2, 'be'), 29) is 17

Contribution of (('KEYWORD', 3, '-'), 33) is 21

Contribution of (('KEYWORD', 4, 'Beyoncé'), 38) is 26

Contribution of (('KEYWORD', 5, 'Knowles'), 41) is 29

Contribution of (('KEYWORD', 6, 'Beyoncé'), 44) is 32

Contribution of (('KEYWORD', 7, 'Knowles'), 45) is 33

Contribution of (('KEYWORD', 8, 'Beyoncé'), 56) is 44

Contribution of (('KEYWORD', 9, 'for'), 59) is 47

Contribution of (('KEYWORD', 10, 'Beyoncé'), 92) is 80

Contribution of (('KEYWORD', 11, 'be'), 108) is 96

So, score for (('PERSON', 1, ['Beyoncé']), 12) is 432

NE is (('PERSON', 2, ["B'Day"]), 23) posn is 23

Contribution of (('KEYWORD', 1, 'be'), 5) is 18

Contribution of (('KEYWORD', 2, 'be'), 29) is 6

Contribution of (('KEYWORD', 3, '-'), 33) is 10

Contribution of (('KEYWORD', 4, 'Beyoncé'), 38) is 15

Contribution of (('KEYWORD', 5, 'Knowles'), 41) is 18

Contribution of (('KEYWORD', 6, 'Beyoncé'), 44) is 21

Contribution of (('KEYWORD', 7, 'Knowles'), 45) is 22

Contribution of (('KEYWORD', 8, 'Beyoncé'), 56) is 33

Contribution of (('KEYWORD', 9, 'for'), 59) is 36

Contribution of (('KEYWORD', 10, 'Beyoncé'), 92) is 69

Contribution of (('KEYWORD', 11, 'be'), 108) is 85

So, score for (('PERSON', 2, ["B'Day"]), 23) is 333

NE is (('PERSON', 3, ['Shea', 'Taylor']), 36) posn is 36

Contribution of (('KEYWORD', 1, 'be'), 5) is 31

Contribution of (('KEYWORD', 2, 'be'), 29) is 7

Contribution of (('KEYWORD', 3, '-'), 33) is 3

Contribution of (('KEYWORD', 4, 'Beyoncé'), 38) is 2

Contribution of (('KEYWORD', 5, 'Knowles'), 41) is 5

Contribution of (('KEYWORD', 6, 'Beyoncé'), 44) is 8

Contribution of (('KEYWORD', 7, 'Knowles'), 45) is 9

Contribution of (('KEYWORD', 8, 'Beyoncé'), 56) is 20

Contribution of (('KEYWORD', 9, 'for'), 59) is 23

Contribution of (('KEYWORD', 10, 'Beyoncé'), 92) is 56

Contribution of (('KEYWORD', 11, 'be'), 108) is 72

So, score for (('PERSON', 3, ['Shea', 'Taylor']), 36) is 236

NE is (('PERSON', 4, ['Taylor']), 47) posn is 47

Contribution of (('KEYWORD', 1, 'be'), 5) is 42

Contribution of (('KEYWORD', 2, 'be'), 29) is 18

Contribution of (('KEYWORD', 3, '-'), 33) is 14

Contribution of (('KEYWORD', 4, 'Beyoncé'), 38) is 9

Contribution of (('KEYWORD', 5, 'Knowles'), 41) is 6

Contribution of (('KEYWORD', 6, 'Beyoncé'), 44) is 3

Contribution of (('KEYWORD', 7, 'Knowles'), 45) is 2

Contribution of (('KEYWORD', 8, 'Beyoncé'), 56) is 9

Contribution of (('KEYWORD', 9, 'for'), 59) is 12

Contribution of (('KEYWORD', 10, 'Beyoncé'), 92) is 45

Contribution of (('KEYWORD', 11, 'be'), 108) is 61

So, score for (('PERSON', 4, ['Taylor']), 47) is 221

NE is (('PERSON', 5, ["B'Day"]), 120) posn is 120

Contribution of (('KEYWORD', 1, 'be'), 5) is 115

Contribution of (('KEYWORD', 2, 'be'), 29) is 91

Contribution of (('KEYWORD', 3, '-'), 33) is 87

Contribution of (('KEYWORD', 4, 'Beyoncé'), 38) is 82

Contribution of (('KEYWORD', 5, 'Knowles'), 41) is 79

Contribution of (('KEYWORD', 6, 'Beyoncé'), 44) is 76

Contribution of (('KEYWORD', 7, 'Knowles'), 45) is 75

Contribution of (('KEYWORD', 8, 'Beyoncé'), 56) is 64

Contribution of (('KEYWORD', 9, 'for'), 59) is 61

Contribution of (('KEYWORD', 10, 'Beyoncé'), 92) is 28

Contribution of (('KEYWORD', 11, 'be'), 108) is 12

So, score for (('PERSON', 5, ["B'Day"]), 120) is 770

(Lower NE score means better match but zero score means no KEYWORDs in sentence.)

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Looking at a para, searching for answers:

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Named Entities recognised and search\_tokens marked as KEYWORD:

['the', 'music', 'video', ('KEYWORD', 1, 'be'), 'direct', 'by', 'Cliff', 'Watts', 'and', ('KEYWORD', 2, 'Beyoncé'), ('KEYWORD', 3, 'for'), "B'Day", 'Anthology', 'Video', 'Album', '(', '2007', ')', '.', 'it', 'feature', 'clip', 'of', 'a', "B'Day", 'promotional', 'ad', 'by', 'Wal', ('KEYWORD', 4, '-'), 'Mart', 'piece', 'together', ',', 'in', 'which', ('KEYWORD', 5, 'Beyoncé'), 'do', 'not', 'lip', ('KEYWORD', 6, '-'), 'sync', 'the', 'word', 'of', 'the', 'song', ',', 'but', 'instead', 'act', 'as', 'if', 'it', ('KEYWORD', 7, 'be'), 'an', 'everyday', 'scenario', '.', ('KEYWORD', 8, 'Beyoncé'), 'explain', 'the', 'concept', ('KEYWORD', 9, 'for'), 'the', 'video', ('KEYWORD', 10, 'be'), 'to', 'show', 'a', 'different', 'side', 'to', 'she', ',', 'that', 'the', 'paparazzi', 'do', 'not', 'show', 'and', 'that', 'fan', 'would', 'not', 'normally', 'see', '.', ('PERSON', 1, ['Beyoncé']), 'perform', '"', 'flaw', 'and', 'all', '"', 'on', 'the', ('KEYWORD', 11, 'Beyoncé'), 'Experience', '(', '2007', ')', ',', 'and', ('KEYWORD', 12, 'be'), 'also', 'sing', 'by', 'she', 'on', 'the', 'Ellen', 'DeGeneres', 'Show', ',', 'revel', 'present', ':', ('KEYWORD', 13, 'Beyoncé'), 'Live', '(', '2012', ')', ',', 'and', 'Renaissance', 'World', 'Tour', '(', '2023', ')', '.']

Named Entities listed with position of each (1st word is number 0):

[(('PERSON', 1, ['Beyoncé']), 89)]

KEYWORDS listed with position of each:

[(('KEYWORD', 1, 'be'), 3), (('KEYWORD', 2, 'Beyoncé'), 9), (('KEYWORD', 3, 'for'), 10), (('KEYWORD', 4, '-'), 29), (('KEYWORD', 5, 'Beyoncé'), 36), (('KEYWORD', 6, '-'), 40), (('KEYWORD', 7, 'be'), 54), (('KEYWORD', 8, 'Beyoncé'), 59), (('KEYWORD', 9, 'for'), 63), (('KEYWORD', 10, 'be'), 66), (('KEYWORD', 11, 'Beyoncé'), 98), (('KEYWORD', 12, 'be'), 105), (('KEYWORD', 13, 'Beyoncé'), 119)]

NE(s) in the sentence with contribution of each KEYWORD to NE score:

NE is (('PERSON', 1, ['Beyoncé']), 89) posn is 89

Contribution of (('KEYWORD', 1, 'be'), 3) is 86

Contribution of (('KEYWORD', 2, 'Beyoncé'), 9) is 80

Contribution of (('KEYWORD', 3, 'for'), 10) is 79

Contribution of (('KEYWORD', 4, '-'), 29) is 60

Contribution of (('KEYWORD', 5, 'Beyoncé'), 36) is 53

Contribution of (('KEYWORD', 6, '-'), 40) is 49

Contribution of (('KEYWORD', 7, 'be'), 54) is 35

Contribution of (('KEYWORD', 8, 'Beyoncé'), 59) is 30

Contribution of (('KEYWORD', 9, 'for'), 63) is 26

Contribution of (('KEYWORD', 10, 'be'), 66) is 23

Contribution of (('KEYWORD', 11, 'Beyoncé'), 98) is 9

Contribution of (('KEYWORD', 12, 'be'), 105) is 16

Contribution of (('KEYWORD', 13, 'Beyoncé'), 119) is 30

So, score for (('PERSON', 1, ['Beyoncé']), 89) is 576

(Lower NE score means better match but zero score means no KEYWORDs in sentence.)

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Looking at a para, searching for answers:

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Named Entities recognised and search\_tokens marked as KEYWORD:

['"', 'flaw', 'and', 'all', '"', ('KEYWORD', 1, 'be'), 'write', 'by', 'Ne', ('KEYWORD', 2, '-'), 'Yo', ',', ('PERSON', 1, ['Shea', 'Taylor']), ',', ('PERSON', 2, ['Beyoncé', 'Knowles']), 'and', 'her', 'sister', ('PERSON', 3, ['Solange', 'Knowles']), '.', 'the', 'R&B', 'song', ('KEYWORD', 3, 'be'), 'produce', 'by', ('KEYWORD', 4, 'Beyoncé'), ('KEYWORD', 5, 'Knowles'), 'and', ('PERSON', 4, ['Taylor']), ',', 'and', 'mix', 'by', ('PERSON', 5, ['Jean', '-', 'Marie', 'Horvat']), 'at', 'Oz', 'Recording', 'Studios', ',', ('PERSON', 6, ['Valencia']), ',', 'California', '.', '"', 'flaw', 'and', 'all', '"', ('KEYWORD', 6, 'be'), 'record', 'by', ('PERSON', 7, ['Jim', 'Caruana']), ',', ('PERSON', 8, ['Shane', 'Woodley']), 'and', ('PERSON', 9, ['Robert', '"', 'LB', '"']), 'Dorsey', 'at', 'Roc', 'the', 'Mic', 'studio', ',', 'New', 'York', 'City', '.', 'although', 'the', 'song', ('KEYWORD', 7, 'be'), 'originally', 'include', 'on', 'the', 're', ('KEYWORD', 8, '-'), 'release', 'of', "B'Day", ',', 'it', ('KEYWORD', 9, 'be'), 'additionally', 'include', 'on', 'compilation', 'album', '.', 'in', '2007', 'the', 'song', ('KEYWORD', 10, 'be'), 'include', 'on', ('PERSON', 10, ['Tyler', 'Perry', "'s"]), 'why', 'do', 'I', 'get', 'married', ('KEYWORD', 11, '?'), 'soundtrack', '.', 'in', '2008', ',', ('KEYWORD', 12, 'Beyoncé'), 'release', 'the', 'song', 'on', 'a', 'compilation', 'album', 'dedicate', 'to', 'karaoke', 'performance', 'title', ('PERSON', 11, ['Beyoncé', 'Karaoke', 'Hits']), ',', ('PERSON', 12, ['Vol']), '.', 'I.', 'Author', 'Latrice', 'Gleen', 'reference', 'the', 'song', 'in', 'a', 'memoir', 'title', 'my', 'life', "'s", ('PERSON', 13, ['Journey']), '(', '2010', ')', '.']

Named Entities listed with position of each (1st word is number 0):

[(('PERSON', 1, ['Shea', 'Taylor']), 12), (('PERSON', 2, ['Beyoncé', 'Knowles']), 14), (('PERSON', 3, ['Solange', 'Knowles']), 18), (('PERSON', 4, ['Taylor']), 29), (('PERSON', 5, ['Jean', '-', 'Marie', 'Horvat']), 34), (('PERSON', 6, ['Valencia']), 40), (('PERSON', 7, ['Jim', 'Caruana']), 52), (('PERSON', 8, ['Shane', 'Woodley']), 54), (('PERSON', 9, ['Robert', '"', 'LB', '"']), 56), (('PERSON', 10, ['Tyler', 'Perry', "'s"]), 97), (('PERSON', 11, ['Beyoncé', 'Karaoke', 'Hits']), 122), (('PERSON', 12, ['Vol']), 124), (('PERSON', 13, ['Journey']), 140)]

KEYWORDS listed with position of each:

[(('KEYWORD', 1, 'be'), 5), (('KEYWORD', 2, '-'), 9), (('KEYWORD', 3, 'be'), 23), (('KEYWORD', 4, 'Beyoncé'), 26), (('KEYWORD', 5, 'Knowles'), 27), (('KEYWORD', 6, 'be'), 49), (('KEYWORD', 7, 'be'), 71), (('KEYWORD', 8, '-'), 77), (('KEYWORD', 9, 'be'), 83), (('KEYWORD', 10, 'be'), 94), (('KEYWORD', 11, '?'), 103), (('KEYWORD', 12, 'Beyoncé'), 109)]

NE(s) in the sentence with contribution of each KEYWORD to NE score:

NE is (('PERSON', 1, ['Shea', 'Taylor']), 12) posn is 12

Contribution of (('KEYWORD', 1, 'be'), 5) is 7

Contribution of (('KEYWORD', 2, '-'), 9) is 3

Contribution of (('KEYWORD', 3, 'be'), 23) is 11

Contribution of (('KEYWORD', 4, 'Beyoncé'), 26) is 14

Contribution of (('KEYWORD', 5, 'Knowles'), 27) is 15

Contribution of (('KEYWORD', 6, 'be'), 49) is 37

Contribution of (('KEYWORD', 7, 'be'), 71) is 59

Contribution of (('KEYWORD', 8, '-'), 77) is 65

Contribution of (('KEYWORD', 9, 'be'), 83) is 71

Contribution of (('KEYWORD', 10, 'be'), 94) is 82

Contribution of (('KEYWORD', 11, '?'), 103) is 91

Contribution of (('KEYWORD', 12, 'Beyoncé'), 109) is 97

So, score for (('PERSON', 1, ['Shea', 'Taylor']), 12) is 552

NE is (('PERSON', 2, ['Beyoncé', 'Knowles']), 14) posn is 14

Contribution of (('KEYWORD', 1, 'be'), 5) is 9

Contribution of (('KEYWORD', 2, '-'), 9) is 5

Contribution of (('KEYWORD', 3, 'be'), 23) is 9

Contribution of (('KEYWORD', 4, 'Beyoncé'), 26) is 12

Contribution of (('KEYWORD', 5, 'Knowles'), 27) is 13

Contribution of (('KEYWORD', 6, 'be'), 49) is 35

Contribution of (('KEYWORD', 7, 'be'), 71) is 57

Contribution of (('KEYWORD', 8, '-'), 77) is 63

Contribution of (('KEYWORD', 9, 'be'), 83) is 69

Contribution of (('KEYWORD', 10, 'be'), 94) is 80

Contribution of (('KEYWORD', 11, '?'), 103) is 89

Contribution of (('KEYWORD', 12, 'Beyoncé'), 109) is 95

So, score for (('PERSON', 2, ['Beyoncé', 'Knowles']), 14) is 536

NE is (('PERSON', 3, ['Solange', 'Knowles']), 18) posn is 18

Contribution of (('KEYWORD', 1, 'be'), 5) is 13

Contribution of (('KEYWORD', 2, '-'), 9) is 9

Contribution of (('KEYWORD', 3, 'be'), 23) is 5

Contribution of (('KEYWORD', 4, 'Beyoncé'), 26) is 8

Contribution of (('KEYWORD', 5, 'Knowles'), 27) is 9

Contribution of (('KEYWORD', 6, 'be'), 49) is 31

Contribution of (('KEYWORD', 7, 'be'), 71) is 53

Contribution of (('KEYWORD', 8, '-'), 77) is 59

Contribution of (('KEYWORD', 9, 'be'), 83) is 65

Contribution of (('KEYWORD', 10, 'be'), 94) is 76

Contribution of (('KEYWORD', 11, '?'), 103) is 85

Contribution of (('KEYWORD', 12, 'Beyoncé'), 109) is 91

So, score for (('PERSON', 3, ['Solange', 'Knowles']), 18) is 504

NE is (('PERSON', 4, ['Taylor']), 29) posn is 29

Contribution of (('KEYWORD', 1, 'be'), 5) is 24

Contribution of (('KEYWORD', 2, '-'), 9) is 20

Contribution of (('KEYWORD', 3, 'be'), 23) is 6

Contribution of (('KEYWORD', 4, 'Beyoncé'), 26) is 3

Contribution of (('KEYWORD', 5, 'Knowles'), 27) is 2

Contribution of (('KEYWORD', 6, 'be'), 49) is 20

Contribution of (('KEYWORD', 7, 'be'), 71) is 42

Contribution of (('KEYWORD', 8, '-'), 77) is 48

Contribution of (('KEYWORD', 9, 'be'), 83) is 54

Contribution of (('KEYWORD', 10, 'be'), 94) is 65

Contribution of (('KEYWORD', 11, '?'), 103) is 74

Contribution of (('KEYWORD', 12, 'Beyoncé'), 109) is 80

So, score for (('PERSON', 4, ['Taylor']), 29) is 438

NE is (('PERSON', 5, ['Jean', '-', 'Marie', 'Horvat']), 34) posn is 34

Contribution of (('KEYWORD', 1, 'be'), 5) is 29

Contribution of (('KEYWORD', 2, '-'), 9) is 25

Contribution of (('KEYWORD', 3, 'be'), 23) is 11

Contribution of (('KEYWORD', 4, 'Beyoncé'), 26) is 8

Contribution of (('KEYWORD', 5, 'Knowles'), 27) is 7

Contribution of (('KEYWORD', 6, 'be'), 49) is 15

Contribution of (('KEYWORD', 7, 'be'), 71) is 37

Contribution of (('KEYWORD', 8, '-'), 77) is 43

Contribution of (('KEYWORD', 9, 'be'), 83) is 49

Contribution of (('KEYWORD', 10, 'be'), 94) is 60

Contribution of (('KEYWORD', 11, '?'), 103) is 69

Contribution of (('KEYWORD', 12, 'Beyoncé'), 109) is 75

So, score for (('PERSON', 5, ['Jean', '-', 'Marie', 'Horvat']), 34) is 428

NE is (('PERSON', 6, ['Valencia']), 40) posn is 40

Contribution of (('KEYWORD', 1, 'be'), 5) is 35

Contribution of (('KEYWORD', 2, '-'), 9) is 31

Contribution of (('KEYWORD', 3, 'be'), 23) is 17

Contribution of (('KEYWORD', 4, 'Beyoncé'), 26) is 14

Contribution of (('KEYWORD', 5, 'Knowles'), 27) is 13

Contribution of (('KEYWORD', 6, 'be'), 49) is 9

Contribution of (('KEYWORD', 7, 'be'), 71) is 31

Contribution of (('KEYWORD', 8, '-'), 77) is 37

Contribution of (('KEYWORD', 9, 'be'), 83) is 43

Contribution of (('KEYWORD', 10, 'be'), 94) is 54

Contribution of (('KEYWORD', 11, '?'), 103) is 63

Contribution of (('KEYWORD', 12, 'Beyoncé'), 109) is 69

So, score for (('PERSON', 6, ['Valencia']), 40) is 416

NE is (('PERSON', 7, ['Jim', 'Caruana']), 52) posn is 52

Contribution of (('KEYWORD', 1, 'be'), 5) is 47

Contribution of (('KEYWORD', 2, '-'), 9) is 43

Contribution of (('KEYWORD', 3, 'be'), 23) is 29

Contribution of (('KEYWORD', 4, 'Beyoncé'), 26) is 26

Contribution of (('KEYWORD', 5, 'Knowles'), 27) is 25

Contribution of (('KEYWORD', 6, 'be'), 49) is 3

Contribution of (('KEYWORD', 7, 'be'), 71) is 19

Contribution of (('KEYWORD', 8, '-'), 77) is 25

Contribution of (('KEYWORD', 9, 'be'), 83) is 31

Contribution of (('KEYWORD', 10, 'be'), 94) is 42

Contribution of (('KEYWORD', 11, '?'), 103) is 51

Contribution of (('KEYWORD', 12, 'Beyoncé'), 109) is 57

So, score for (('PERSON', 7, ['Jim', 'Caruana']), 52) is 398

NE is (('PERSON', 8, ['Shane', 'Woodley']), 54) posn is 54

Contribution of (('KEYWORD', 1, 'be'), 5) is 49

Contribution of (('KEYWORD', 2, '-'), 9) is 45

Contribution of (('KEYWORD', 3, 'be'), 23) is 31

Contribution of (('KEYWORD', 4, 'Beyoncé'), 26) is 28

Contribution of (('KEYWORD', 5, 'Knowles'), 27) is 27

Contribution of (('KEYWORD', 6, 'be'), 49) is 5

Contribution of (('KEYWORD', 7, 'be'), 71) is 17

Contribution of (('KEYWORD', 8, '-'), 77) is 23

Contribution of (('KEYWORD', 9, 'be'), 83) is 29

Contribution of (('KEYWORD', 10, 'be'), 94) is 40

Contribution of (('KEYWORD', 11, '?'), 103) is 49

Contribution of (('KEYWORD', 12, 'Beyoncé'), 109) is 55

So, score for (('PERSON', 8, ['Shane', 'Woodley']), 54) is 398

NE is (('PERSON', 9, ['Robert', '"', 'LB', '"']), 56) posn is 56

Contribution of (('KEYWORD', 1, 'be'), 5) is 51

Contribution of (('KEYWORD', 2, '-'), 9) is 47

Contribution of (('KEYWORD', 3, 'be'), 23) is 33

Contribution of (('KEYWORD', 4, 'Beyoncé'), 26) is 30

Contribution of (('KEYWORD', 5, 'Knowles'), 27) is 29

Contribution of (('KEYWORD', 6, 'be'), 49) is 7

Contribution of (('KEYWORD', 7, 'be'), 71) is 15

Contribution of (('KEYWORD', 8, '-'), 77) is 21

Contribution of (('KEYWORD', 9, 'be'), 83) is 27

Contribution of (('KEYWORD', 10, 'be'), 94) is 38

Contribution of (('KEYWORD', 11, '?'), 103) is 47

Contribution of (('KEYWORD', 12, 'Beyoncé'), 109) is 53

So, score for (('PERSON', 9, ['Robert', '"', 'LB', '"']), 56) is 398

NE is (('PERSON', 10, ['Tyler', 'Perry', "'s"]), 97) posn is 97

Contribution of (('KEYWORD', 1, 'be'), 5) is 92

Contribution of (('KEYWORD', 2, '-'), 9) is 88

Contribution of (('KEYWORD', 3, 'be'), 23) is 74

Contribution of (('KEYWORD', 4, 'Beyoncé'), 26) is 71

Contribution of (('KEYWORD', 5, 'Knowles'), 27) is 70

Contribution of (('KEYWORD', 6, 'be'), 49) is 48

Contribution of (('KEYWORD', 7, 'be'), 71) is 26

Contribution of (('KEYWORD', 8, '-'), 77) is 20

Contribution of (('KEYWORD', 9, 'be'), 83) is 14

Contribution of (('KEYWORD', 10, 'be'), 94) is 3

Contribution of (('KEYWORD', 11, '?'), 103) is 6

Contribution of (('KEYWORD', 12, 'Beyoncé'), 109) is 12

So, score for (('PERSON', 10, ['Tyler', 'Perry', "'s"]), 97) is 524

NE is (('PERSON', 11, ['Beyoncé', 'Karaoke', 'Hits']), 122) posn is 122

Contribution of (('KEYWORD', 1, 'be'), 5) is 117

Contribution of (('KEYWORD', 2, '-'), 9) is 113

Contribution of (('KEYWORD', 3, 'be'), 23) is 99

Contribution of (('KEYWORD', 4, 'Beyoncé'), 26) is 96

Contribution of (('KEYWORD', 5, 'Knowles'), 27) is 95

Contribution of (('KEYWORD', 6, 'be'), 49) is 73

Contribution of (('KEYWORD', 7, 'be'), 71) is 51

Contribution of (('KEYWORD', 8, '-'), 77) is 45

Contribution of (('KEYWORD', 9, 'be'), 83) is 39

Contribution of (('KEYWORD', 10, 'be'), 94) is 28

Contribution of (('KEYWORD', 11, '?'), 103) is 19

Contribution of (('KEYWORD', 12, 'Beyoncé'), 109) is 13

So, score for (('PERSON', 11, ['Beyoncé', 'Karaoke', 'Hits']), 122) is 788

NE is (('PERSON', 12, ['Vol']), 124) posn is 124

Contribution of (('KEYWORD', 1, 'be'), 5) is 119

Contribution of (('KEYWORD', 2, '-'), 9) is 115

Contribution of (('KEYWORD', 3, 'be'), 23) is 101

Contribution of (('KEYWORD', 4, 'Beyoncé'), 26) is 98

Contribution of (('KEYWORD', 5, 'Knowles'), 27) is 97

Contribution of (('KEYWORD', 6, 'be'), 49) is 75

Contribution of (('KEYWORD', 7, 'be'), 71) is 53

Contribution of (('KEYWORD', 8, '-'), 77) is 47

Contribution of (('KEYWORD', 9, 'be'), 83) is 41

Contribution of (('KEYWORD', 10, 'be'), 94) is 30

Contribution of (('KEYWORD', 11, '?'), 103) is 21

Contribution of (('KEYWORD', 12, 'Beyoncé'), 109) is 15

So, score for (('PERSON', 12, ['Vol']), 124) is 812

NE is (('PERSON', 13, ['Journey']), 140) posn is 140

Contribution of (('KEYWORD', 1, 'be'), 5) is 135

Contribution of (('KEYWORD', 2, '-'), 9) is 131

Contribution of (('KEYWORD', 3, 'be'), 23) is 117

Contribution of (('KEYWORD', 4, 'Beyoncé'), 26) is 114

Contribution of (('KEYWORD', 5, 'Knowles'), 27) is 113

Contribution of (('KEYWORD', 6, 'be'), 49) is 91

Contribution of (('KEYWORD', 7, 'be'), 71) is 69

Contribution of (('KEYWORD', 8, '-'), 77) is 63

Contribution of (('KEYWORD', 9, 'be'), 83) is 57

Contribution of (('KEYWORD', 10, 'be'), 94) is 46

Contribution of (('KEYWORD', 11, '?'), 103) is 37

Contribution of (('KEYWORD', 12, 'Beyoncé'), 109) is 31

So, score for (('PERSON', 13, ['Journey']), 140) is 1004

(Lower NE score means better match but zero score means no KEYWORDs in sentence.)

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original\_query:

Does Los Angeles has good economy?

search\_tokens extracted:

['do', 'Los', 'Angeles', 'have', 'good', 'economy', '?']

query\_type\_json: unknown

query\_type\_spacy: PERSON

Elastic query submitted with search\_tokens\_string:

{'multi\_match': {'query': 'do Los Angeles have good economy ?', 'fields': [], 'type': 'best\_fields'}}

result\_text\_list:

['"City Is Ours" is a song by American pop group, Big Time Rush. It was released digitally on August 3, 2010, as the fifth promotional single from their debut studio album, BTR.']

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Looking at a para, searching for answers:

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Named Entities recognised and search\_tokens marked as KEYWORD:

['"', 'City', 'be', 'our', '"', 'be', 'a', 'song', 'by', 'american', 'pop', 'group', ',', 'Big', 'Time', 'Rush', '.', 'it', 'be', 'release', 'digitally', 'on', 'August', '3', ',', '2010', ',', 'as', 'the', 'fifth', 'promotional', 'single', 'from', 'their', 'debut', 'studio', 'album', ',', 'BTR', '.']

Named Entities listed with position of each (1st word is number 0):

[]

KEYWORDS listed with position of each:

[]

NE(s) in the sentence with contribution of each KEYWORD to NE score:

(Lower NE score means better match but zero score means no KEYWORDs in sentence.)

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original\_query:

What is BeyGOOD organization created?

search\_tokens extracted:

['what', 'be', 'BeyGOOD', 'organization', 'create', '?']

query\_type\_json: unknown

query\_type\_spacy: PERSON

Elastic query submitted with search\_tokens\_string:

{'multi\_match': {'query': 'what be BeyGOOD organization create ?', 'fields': [], 'type': 'best\_fields'}}

result\_text\_list:

['is a Japanese company that gathers and analyzes data from the digital entertainment industry, specifically focusing on the Japanese console gaming market. Business operations include publishing, market research and consulting. It is a popular website for people interested in learning the latest video game software and hardware sales figures from Japan. The company publishes "The Annual Game Industry Report" every year.']

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Looking at a para, searching for answers:

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Named Entities recognised and search\_tokens marked as KEYWORD:

[('KEYWORD', 1, 'be'), 'a', 'japanese', 'company', 'that', 'gather', 'and', 'analyze', 'datum', 'from', 'the', 'digital', 'entertainment', 'industry', ',', 'specifically', 'focus', 'on', 'the', 'japanese', 'console', 'gaming', 'market', '.', 'business', 'operation', 'include', 'publishing', ',', 'market', 'research', 'and', 'consulting', '.', 'it', ('KEYWORD', 2, 'be'), 'a', 'popular', 'website', 'for', 'people', 'interested', 'in', 'learn', 'the', 'late', 'video', 'game', 'software', 'and', 'hardware', 'sale', 'figure', 'from', 'Japan', '.', 'the', 'company', 'publish', '"', 'the', 'Annual', 'Game', 'Industry', 'Report', '"', 'every', 'year', '.']

Named Entities listed with position of each (1st word is number 0):

[]

KEYWORDS listed with position of each:

[(('KEYWORD', 1, 'be'), 0), (('KEYWORD', 2, 'be'), 35)]

NE(s) in the sentence with contribution of each KEYWORD to NE score:

(Lower NE score means better match but zero score means no KEYWORDs in sentence.)

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original\_query:

who was the founder of BeyGOOD?

search\_tokens extracted:

['who', 'be', 'the', 'founder', 'of', 'BeyGOOD', '?']

query\_type\_json: person

query\_type\_spacy: PERSON

Elastic query submitted with search\_tokens\_string:

{'multi\_match': {'query': 'who be the founder of BeyGOOD ?', 'fields': [], 'type': 'best\_fields'}}

result\_text\_list:

["The Founder is a 2016 American biographical drama film directed by John Lee Hancock and written by Robert Siegel. Starring Michael Keaton as businessman Ray Kroc, the film depicts the story of his creation of the McDonald's fast-food restaurant chain, which eventually involved forcing out the company's original founders to take control with conniving ruthlessness. Nick Offerman and John Carroll Lynch co-star as McDonald's founders Richard and Maurice McDonald, alongside Linda Cardellini as Ray Kroc's third wife Joan Smith, and B. J. Novak as McDonald's president and chief executive Harry J. Sonneborn."]

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Looking at a para, searching for answers:

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Named Entities recognised and search\_tokens marked as KEYWORD:

[('KEYWORD', 1, 'the'), 'Founder', ('KEYWORD', 2, 'be'), 'a', '2016', 'american', 'biographical', 'drama', 'film', 'direct', 'by', ('PERSON', 1, ['John', 'Lee', 'Hancock']), 'and', 'write', 'by', ('PERSON', 2, ['Robert', 'Siegel']), '.', 'star', ('PERSON', 3, ['Michael', 'Keaton']), 'as', 'businessman', ('PERSON', 4, ['Ray', 'Kroc']), ',', ('KEYWORD', 3, 'the'), 'film', 'depict', ('KEYWORD', 4, 'the'), 'story', ('KEYWORD', 5, 'of'), 'his', 'creation', ('KEYWORD', 6, 'of'), ('KEYWORD', 7, 'the'), 'McDonald', "'s", 'fast', '-', 'food', 'restaurant', 'chain', ',', 'which', 'eventually', 'involve', 'force', 'out', ('KEYWORD', 8, 'the'), 'company', "'s", 'original', ('KEYWORD', 9, 'founder'), 'to', 'take', 'control', 'with', 'connive', 'ruthlessness', '.', ('PERSON', 5, ['Nick', 'Offerman']), 'and', ('PERSON', 6, ['John', 'Carroll', 'Lynch']), 'co', '-', 'star', 'as', 'McDonald', "'s", ('KEYWORD', 10, 'founder'), ('PERSON', 7, ['Richard']), 'and', ('PERSON', 8, ['Maurice', 'McDonald']), ',', 'alongside', ('PERSON', 9, ['Linda', 'Cardellini']), 'as', ('PERSON', 10, ['Ray', 'Kroc', "'s"]), 'third', 'wife', ('PERSON', 11, ['Joan', 'Smith']), ',', 'and', ('PERSON', 12, ['B.', 'J.', 'Novak']), 'as', 'McDonald', "'s", 'president', 'and', 'chief', 'executive', ('PERSON', 13, ['Harry', 'J.', 'Sonneborn']), '.']

Named Entities listed with position of each (1st word is number 0):

[(('PERSON', 1, ['John', 'Lee', 'Hancock']), 11), (('PERSON', 2, ['Robert', 'Siegel']), 15), (('PERSON', 3, ['Michael', 'Keaton']), 18), (('PERSON', 4, ['Ray', 'Kroc']), 21), (('PERSON', 5, ['Nick', 'Offerman']), 58), (('PERSON', 6, ['John', 'Carroll', 'Lynch']), 60), (('PERSON', 7, ['Richard']), 68), (('PERSON', 8, ['Maurice', 'McDonald']), 70), (('PERSON', 9, ['Linda', 'Cardellini']), 73), (('PERSON', 10, ['Ray', 'Kroc', "'s"]), 75), (('PERSON', 11, ['Joan', 'Smith']), 78), (('PERSON', 12, ['B.', 'J.', 'Novak']), 81), (('PERSON', 13, ['Harry', 'J.', 'Sonneborn']), 89)]

KEYWORDS listed with position of each:

[(('KEYWORD', 1, 'the'), 0), (('KEYWORD', 2, 'be'), 2), (('KEYWORD', 3, 'the'), 23), (('KEYWORD', 4, 'the'), 26), (('KEYWORD', 5, 'of'), 28), (('KEYWORD', 6, 'of'), 31), (('KEYWORD', 7, 'the'), 32), (('KEYWORD', 8, 'the'), 46), (('KEYWORD', 9, 'founder'), 50), (('KEYWORD', 10, 'founder'), 67)]

NE(s) in the sentence with contribution of each KEYWORD to NE score:

NE is (('PERSON', 1, ['John', 'Lee', 'Hancock']), 11) posn is 11

Contribution of (('KEYWORD', 1, 'the'), 0) is 11

Contribution of (('KEYWORD', 2, 'be'), 2) is 9

Contribution of (('KEYWORD', 3, 'the'), 23) is 12

Contribution of (('KEYWORD', 4, 'the'), 26) is 15

Contribution of (('KEYWORD', 5, 'of'), 28) is 17

Contribution of (('KEYWORD', 6, 'of'), 31) is 20

Contribution of (('KEYWORD', 7, 'the'), 32) is 21

Contribution of (('KEYWORD', 8, 'the'), 46) is 35

Contribution of (('KEYWORD', 9, 'founder'), 50) is 39

Contribution of (('KEYWORD', 10, 'founder'), 67) is 56

So, score for (('PERSON', 1, ['John', 'Lee', 'Hancock']), 11) is 235

NE is (('PERSON', 2, ['Robert', 'Siegel']), 15) posn is 15

Contribution of (('KEYWORD', 1, 'the'), 0) is 15

Contribution of (('KEYWORD', 2, 'be'), 2) is 13

Contribution of (('KEYWORD', 3, 'the'), 23) is 8

Contribution of (('KEYWORD', 4, 'the'), 26) is 11

Contribution of (('KEYWORD', 5, 'of'), 28) is 13

Contribution of (('KEYWORD', 6, 'of'), 31) is 16

Contribution of (('KEYWORD', 7, 'the'), 32) is 17

Contribution of (('KEYWORD', 8, 'the'), 46) is 31

Contribution of (('KEYWORD', 9, 'founder'), 50) is 35

Contribution of (('KEYWORD', 10, 'founder'), 67) is 52

So, score for (('PERSON', 2, ['Robert', 'Siegel']), 15) is 211

NE is (('PERSON', 3, ['Michael', 'Keaton']), 18) posn is 18

Contribution of (('KEYWORD', 1, 'the'), 0) is 18

Contribution of (('KEYWORD', 2, 'be'), 2) is 16

Contribution of (('KEYWORD', 3, 'the'), 23) is 5

Contribution of (('KEYWORD', 4, 'the'), 26) is 8

Contribution of (('KEYWORD', 5, 'of'), 28) is 10

Contribution of (('KEYWORD', 6, 'of'), 31) is 13

Contribution of (('KEYWORD', 7, 'the'), 32) is 14

Contribution of (('KEYWORD', 8, 'the'), 46) is 28

Contribution of (('KEYWORD', 9, 'founder'), 50) is 32

Contribution of (('KEYWORD', 10, 'founder'), 67) is 49

So, score for (('PERSON', 3, ['Michael', 'Keaton']), 18) is 193

NE is (('PERSON', 4, ['Ray', 'Kroc']), 21) posn is 21

Contribution of (('KEYWORD', 1, 'the'), 0) is 21

Contribution of (('KEYWORD', 2, 'be'), 2) is 19

Contribution of (('KEYWORD', 3, 'the'), 23) is 2

Contribution of (('KEYWORD', 4, 'the'), 26) is 5

Contribution of (('KEYWORD', 5, 'of'), 28) is 7

Contribution of (('KEYWORD', 6, 'of'), 31) is 10

Contribution of (('KEYWORD', 7, 'the'), 32) is 11

Contribution of (('KEYWORD', 8, 'the'), 46) is 25

Contribution of (('KEYWORD', 9, 'founder'), 50) is 29

Contribution of (('KEYWORD', 10, 'founder'), 67) is 46

So, score for (('PERSON', 4, ['Ray', 'Kroc']), 21) is 175

NE is (('PERSON', 5, ['Nick', 'Offerman']), 58) posn is 58

Contribution of (('KEYWORD', 1, 'the'), 0) is 58

Contribution of (('KEYWORD', 2, 'be'), 2) is 56

Contribution of (('KEYWORD', 3, 'the'), 23) is 35

Contribution of (('KEYWORD', 4, 'the'), 26) is 32

Contribution of (('KEYWORD', 5, 'of'), 28) is 30

Contribution of (('KEYWORD', 6, 'of'), 31) is 27

Contribution of (('KEYWORD', 7, 'the'), 32) is 26

Contribution of (('KEYWORD', 8, 'the'), 46) is 12

Contribution of (('KEYWORD', 9, 'founder'), 50) is 8

Contribution of (('KEYWORD', 10, 'founder'), 67) is 9

So, score for (('PERSON', 5, ['Nick', 'Offerman']), 58) is 293

NE is (('PERSON', 6, ['John', 'Carroll', 'Lynch']), 60) posn is 60

Contribution of (('KEYWORD', 1, 'the'), 0) is 60

Contribution of (('KEYWORD', 2, 'be'), 2) is 58

Contribution of (('KEYWORD', 3, 'the'), 23) is 37

Contribution of (('KEYWORD', 4, 'the'), 26) is 34

Contribution of (('KEYWORD', 5, 'of'), 28) is 32

Contribution of (('KEYWORD', 6, 'of'), 31) is 29

Contribution of (('KEYWORD', 7, 'the'), 32) is 28

Contribution of (('KEYWORD', 8, 'the'), 46) is 14

Contribution of (('KEYWORD', 9, 'founder'), 50) is 10

Contribution of (('KEYWORD', 10, 'founder'), 67) is 7

So, score for (('PERSON', 6, ['John', 'Carroll', 'Lynch']), 60) is 309

NE is (('PERSON', 7, ['Richard']), 68) posn is 68

Contribution of (('KEYWORD', 1, 'the'), 0) is 68

Contribution of (('KEYWORD', 2, 'be'), 2) is 66

Contribution of (('KEYWORD', 3, 'the'), 23) is 45

Contribution of (('KEYWORD', 4, 'the'), 26) is 42

Contribution of (('KEYWORD', 5, 'of'), 28) is 40

Contribution of (('KEYWORD', 6, 'of'), 31) is 37

Contribution of (('KEYWORD', 7, 'the'), 32) is 36

Contribution of (('KEYWORD', 8, 'the'), 46) is 22

Contribution of (('KEYWORD', 9, 'founder'), 50) is 18

Contribution of (('KEYWORD', 10, 'founder'), 67) is 1

So, score for (('PERSON', 7, ['Richard']), 68) is 375

NE is (('PERSON', 8, ['Maurice', 'McDonald']), 70) posn is 70

Contribution of (('KEYWORD', 1, 'the'), 0) is 70

Contribution of (('KEYWORD', 2, 'be'), 2) is 68

Contribution of (('KEYWORD', 3, 'the'), 23) is 47

Contribution of (('KEYWORD', 4, 'the'), 26) is 44

Contribution of (('KEYWORD', 5, 'of'), 28) is 42

Contribution of (('KEYWORD', 6, 'of'), 31) is 39

Contribution of (('KEYWORD', 7, 'the'), 32) is 38

Contribution of (('KEYWORD', 8, 'the'), 46) is 24

Contribution of (('KEYWORD', 9, 'founder'), 50) is 20

Contribution of (('KEYWORD', 10, 'founder'), 67) is 3

So, score for (('PERSON', 8, ['Maurice', 'McDonald']), 70) is 395

NE is (('PERSON', 9, ['Linda', 'Cardellini']), 73) posn is 73

Contribution of (('KEYWORD', 1, 'the'), 0) is 73

Contribution of (('KEYWORD', 2, 'be'), 2) is 71

Contribution of (('KEYWORD', 3, 'the'), 23) is 50

Contribution of (('KEYWORD', 4, 'the'), 26) is 47

Contribution of (('KEYWORD', 5, 'of'), 28) is 45

Contribution of (('KEYWORD', 6, 'of'), 31) is 42

Contribution of (('KEYWORD', 7, 'the'), 32) is 41

Contribution of (('KEYWORD', 8, 'the'), 46) is 27

Contribution of (('KEYWORD', 9, 'founder'), 50) is 23

Contribution of (('KEYWORD', 10, 'founder'), 67) is 6

So, score for (('PERSON', 9, ['Linda', 'Cardellini']), 73) is 425

NE is (('PERSON', 10, ['Ray', 'Kroc', "'s"]), 75) posn is 75

Contribution of (('KEYWORD', 1, 'the'), 0) is 75

Contribution of (('KEYWORD', 2, 'be'), 2) is 73

Contribution of (('KEYWORD', 3, 'the'), 23) is 52

Contribution of (('KEYWORD', 4, 'the'), 26) is 49

Contribution of (('KEYWORD', 5, 'of'), 28) is 47

Contribution of (('KEYWORD', 6, 'of'), 31) is 44

Contribution of (('KEYWORD', 7, 'the'), 32) is 43

Contribution of (('KEYWORD', 8, 'the'), 46) is 29

Contribution of (('KEYWORD', 9, 'founder'), 50) is 25

Contribution of (('KEYWORD', 10, 'founder'), 67) is 8

So, score for (('PERSON', 10, ['Ray', 'Kroc', "'s"]), 75) is 445

NE is (('PERSON', 11, ['Joan', 'Smith']), 78) posn is 78

Contribution of (('KEYWORD', 1, 'the'), 0) is 78

Contribution of (('KEYWORD', 2, 'be'), 2) is 76

Contribution of (('KEYWORD', 3, 'the'), 23) is 55

Contribution of (('KEYWORD', 4, 'the'), 26) is 52

Contribution of (('KEYWORD', 5, 'of'), 28) is 50

Contribution of (('KEYWORD', 6, 'of'), 31) is 47

Contribution of (('KEYWORD', 7, 'the'), 32) is 46

Contribution of (('KEYWORD', 8, 'the'), 46) is 32

Contribution of (('KEYWORD', 9, 'founder'), 50) is 28

Contribution of (('KEYWORD', 10, 'founder'), 67) is 11

So, score for (('PERSON', 11, ['Joan', 'Smith']), 78) is 475

NE is (('PERSON', 12, ['B.', 'J.', 'Novak']), 81) posn is 81

Contribution of (('KEYWORD', 1, 'the'), 0) is 81

Contribution of (('KEYWORD', 2, 'be'), 2) is 79

Contribution of (('KEYWORD', 3, 'the'), 23) is 58

Contribution of (('KEYWORD', 4, 'the'), 26) is 55

Contribution of (('KEYWORD', 5, 'of'), 28) is 53

Contribution of (('KEYWORD', 6, 'of'), 31) is 50

Contribution of (('KEYWORD', 7, 'the'), 32) is 49

Contribution of (('KEYWORD', 8, 'the'), 46) is 35

Contribution of (('KEYWORD', 9, 'founder'), 50) is 31

Contribution of (('KEYWORD', 10, 'founder'), 67) is 14

So, score for (('PERSON', 12, ['B.', 'J.', 'Novak']), 81) is 505

NE is (('PERSON', 13, ['Harry', 'J.', 'Sonneborn']), 89) posn is 89

Contribution of (('KEYWORD', 1, 'the'), 0) is 89

Contribution of (('KEYWORD', 2, 'be'), 2) is 87

Contribution of (('KEYWORD', 3, 'the'), 23) is 66

Contribution of (('KEYWORD', 4, 'the'), 26) is 63

Contribution of (('KEYWORD', 5, 'of'), 28) is 61

Contribution of (('KEYWORD', 6, 'of'), 31) is 58

Contribution of (('KEYWORD', 7, 'the'), 32) is 57

Contribution of (('KEYWORD', 8, 'the'), 46) is 43

Contribution of (('KEYWORD', 9, 'founder'), 50) is 39

Contribution of (('KEYWORD', 10, 'founder'), 67) is 22

So, score for (('PERSON', 13, ['Harry', 'J.', 'Sonneborn']), 89) is 585

(Lower NE score means better match but zero score means no KEYWORDs in sentence.)

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original\_query:

What has BeyGOOD done?

search\_tokens extracted:

['what', 'have', 'BeyGOOD', 'do', '?']

query\_type\_json: unknown

query\_type\_spacy: PERSON

Elastic query submitted with search\_tokens\_string:

{'multi\_match': {'query': 'what have BeyGOOD do ?', 'fields': [], 'type': 'best\_fields'}}

result\_text\_list:

['"What Lovers Do" is a song by American band Maroon 5 featuring American singer SZA. It was released on August 30, 2017, as the third single from the band\'s sixth studio album Red Pill Blues (2017). The song contains an interpolation of the 2016 song "Sexual" by Neiked featuring Dyo, therefore Victor Rådström, Dyo and Elina Stridh are credited as songwriters. Commercially, the song reached the top 10 in the United States and 20 additional countries. It is certified Platinum or higher in the US and 14 additional countries.']

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Looking at a para, searching for answers:

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Named Entities recognised and search\_tokens marked as KEYWORD:

['"', ('KEYWORD', 1, 'what'), 'Lovers', ('KEYWORD', 2, 'do'), '"', 'be', 'a', 'song', 'by', 'american', 'band', 'Maroon', '5', 'feature', 'american', 'singer', 'SZA', '.', 'it', 'be', 'release', 'on', 'August', '30', ',', '2017', ',', 'as', 'the', 'third', 'single', 'from', 'the', 'band', "'s", 'sixth', 'studio', 'album', 'Red', 'Pill', 'Blues', '(', '2017', ')', '.', 'the', 'song', 'contain', 'an', 'interpolation', 'of', 'the', '2016', 'song', '"', 'Sexual', '"', 'by', ('PERSON', 1, ['Neiked']), 'feature', 'Dyo', ',', 'therefore', ('PERSON', 2, ['Victor', 'Rådström']), ',', 'Dyo', 'and', ('PERSON', 3, ['Elina', 'Stridh']), 'be', 'credit', 'as', 'songwriter', '.', 'commercially', ',', 'the', 'song', 'reach', 'the', 'top', '10', 'in', 'the', 'United', 'States', 'and', '20', 'additional', 'country', '.', 'it', 'be', 'certify', 'platinum', 'or', 'high', 'in', 'the', 'US', 'and', '14', 'additional', 'country', '.']

Named Entities listed with position of each (1st word is number 0):

[(('PERSON', 1, ['Neiked']), 58), (('PERSON', 2, ['Victor', 'Rådström']), 63), (('PERSON', 3, ['Elina', 'Stridh']), 67)]

KEYWORDS listed with position of each:

[(('KEYWORD', 1, 'what'), 1), (('KEYWORD', 2, 'do'), 3)]

NE(s) in the sentence with contribution of each KEYWORD to NE score:

NE is (('PERSON', 1, ['Neiked']), 58) posn is 58

Contribution of (('KEYWORD', 1, 'what'), 1) is 57

Contribution of (('KEYWORD', 2, 'do'), 3) is 55

So, score for (('PERSON', 1, ['Neiked']), 58) is 112

NE is (('PERSON', 2, ['Victor', 'Rådström']), 63) posn is 63

Contribution of (('KEYWORD', 1, 'what'), 1) is 62

Contribution of (('KEYWORD', 2, 'do'), 3) is 60

So, score for (('PERSON', 2, ['Victor', 'Rådström']), 63) is 122

NE is (('PERSON', 3, ['Elina', 'Stridh']), 67) posn is 67

Contribution of (('KEYWORD', 1, 'what'), 1) is 66

Contribution of (('KEYWORD', 2, 'do'), 3) is 64

So, score for (('PERSON', 3, ['Elina', 'Stridh']), 67) is 130

(Lower NE score means better match but zero score means no KEYWORDs in sentence.)

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original\_query:

where is the griffith park?

search\_tokens extracted:

['where', 'be', 'the', 'griffith', 'park', '?']

query\_type\_json: location

query\_type\_spacy: PERSON

Elastic query submitted with search\_tokens\_string:

{'multi\_match': {'query': 'where be the griffith park ?', 'fields': [], 'type': 'best\_fields'}}

result\_text\_list:

['Griffith Park is a large municipal park at the eastern end of the Santa Monica Mountains, in the Los Feliz neighborhood of Los Angeles, California. The park includes popular attractions such as the Los Angeles Zoo, the Autry Museum of the American West, the Griffith Observatory, and the Hollywood Sign. Due to its appearance in many films, the park is among the most famous municipal parks in North America.']

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Looking at a para, searching for answers:

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Named Entities recognised and search\_tokens marked as KEYWORD:

['Griffith', 'Park', ('KEYWORD', 1, 'be'), 'a', 'large', 'municipal', ('KEYWORD', 2, 'park'), 'at', ('KEYWORD', 3, 'the'), 'eastern', 'end', 'of', ('KEYWORD', 4, 'the'), 'Santa', 'Monica', 'Mountains', ',', 'in', ('KEYWORD', 5, 'the'), 'Los', 'Feliz', 'neighborhood', 'of', 'Los', 'Angeles', ',', 'California', '.', ('KEYWORD', 6, 'the'), ('KEYWORD', 7, 'park'), 'include', 'popular', 'attraction', 'such', 'as', ('KEYWORD', 8, 'the'), 'Los', 'Angeles', 'Zoo', ',', ('KEYWORD', 9, 'the'), 'Autry', 'Museum', 'of', ('KEYWORD', 10, 'the'), 'American', 'West', ',', ('KEYWORD', 11, 'the'), 'Griffith', 'Observatory', ',', 'and', ('KEYWORD', 12, 'the'), 'Hollywood', 'Sign', '.', 'due', 'to', 'its', 'appearance', 'in', 'many', 'film', ',', ('KEYWORD', 13, 'the'), ('KEYWORD', 14, 'park'), ('KEYWORD', 15, 'be'), 'among', ('KEYWORD', 16, 'the'), 'most', 'famous', 'municipal', ('KEYWORD', 17, 'park'), 'in', 'North', 'America', '.']

Named Entities listed with position of each (1st word is number 0):

[]

KEYWORDS listed with position of each:

[(('KEYWORD', 1, 'be'), 2), (('KEYWORD', 2, 'park'), 6), (('KEYWORD', 3, 'the'), 8), (('KEYWORD', 4, 'the'), 12), (('KEYWORD', 5, 'the'), 18), (('KEYWORD', 6, 'the'), 28), (('KEYWORD', 7, 'park'), 29), (('KEYWORD', 8, 'the'), 35), (('KEYWORD', 9, 'the'), 40), (('KEYWORD', 10, 'the'), 44), (('KEYWORD', 11, 'the'), 48), (('KEYWORD', 12, 'the'), 53), (('KEYWORD', 13, 'the'), 65), (('KEYWORD', 14, 'park'), 66), (('KEYWORD', 15, 'be'), 67), (('KEYWORD', 16, 'the'), 69), (('KEYWORD', 17, 'park'), 73)]

NE(s) in the sentence with contribution of each KEYWORD to NE score:

(Lower NE score means better match but zero score means no KEYWORDs in sentence.)

--------------------------------------------------------------------------

original\_query:

What are Beyoncé Knowles-Carter latest feature or album?

search\_tokens extracted:

['what', 'be', 'Beyoncé', 'Knowles', '-', 'Carter', 'late', 'feature', 'or', 'album', '?']

query\_type\_json: unknown

query\_type\_spacy: PERSON

Elastic query submitted with search\_tokens\_string:

{'multi\_match': {'query': 'what be Beyoncé Knowles - Carter late feature or album ?', 'fields': [], 'type': 'best\_fields'}}

result\_text\_list:

['"Kitty Kat" is a song by American singer Beyoncé for her second studio album, B\'Day (2006). It was composed by Beyoncé, Pharrell Williams, and Shawn Carter. "Kitty Kat" is a mid-tempo electro, hip hop soul and R&B song whose lyrics detail a situation where a woman feels that her man has underestimated her. The song was generally well received by music critics who noted it to be a seductive track thanks to its "I\'m not feelin[g] it" vibe. However, some music critics felt that the production does not live up to those of other songs featured on B\'Day.']

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Looking at a para, searching for answers:

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Named Entities recognised and search\_tokens marked as KEYWORD:

['"', ('PERSON', 1, ['Kitty', 'Kat']), '"', ('KEYWORD', 1, 'be'), 'a', 'song', 'by', 'american', 'singer', ('PERSON', 2, ['Beyoncé']), 'for', 'her', 'second', 'studio', ('KEYWORD', 2, 'album'), ',', ('PERSON', 3, ["B'Day"]), '(', '2006', ')', '.', 'it', ('KEYWORD', 3, 'be'), 'compose', 'by', ('KEYWORD', 4, 'Beyoncé'), ',', ('PERSON', 4, ['Pharrell', 'Williams']), ',', 'and', ('PERSON', 5, ['Shawn', 'Carter']), '.', '"', ('PERSON', 6, ['Kitty', 'Kat']), '"', ('KEYWORD', 5, 'be'), 'a', 'mid', ('KEYWORD', 6, '-'), 'tempo', 'electro', ',', 'hip', 'hop', 'soul', 'and', 'R&B', 'song', 'whose', 'lyric', 'detail', 'a', 'situation', 'where', 'a', 'woman', 'feel', 'that', 'her', 'man', 'have', 'underestimate', 'she', '.', 'the', 'song', ('KEYWORD', 7, 'be'), 'generally', 'well', 'receive', 'by', 'music', 'critic', 'who', 'note', 'it', 'to', ('KEYWORD', 8, 'be'), 'a', 'seductive', 'track', 'thank', 'to', 'its', '"', 'I', ('KEYWORD', 9, 'be'), 'not', 'feelin[g', ']', 'it', '"', 'vibe', '.', 'however', ',', 'some', 'music', 'critic', 'feel', 'that', 'the', 'production', 'do', 'not', 'live', 'up', 'to', 'those', 'of', 'other', 'song', ('KEYWORD', 10, 'feature'), 'on', ('PERSON', 7, ["B'Day"]), '.']

Named Entities listed with position of each (1st word is number 0):

[(('PERSON', 1, ['Kitty', 'Kat']), 1), (('PERSON', 2, ['Beyoncé']), 9), (('PERSON', 3, ["B'Day"]), 16), (('PERSON', 4, ['Pharrell', 'Williams']), 27), (('PERSON', 5, ['Shawn', 'Carter']), 30), (('PERSON', 6, ['Kitty', 'Kat']), 33), (('PERSON', 7, ["B'Day"]), 114)]

KEYWORDS listed with position of each:

[(('KEYWORD', 1, 'be'), 3), (('KEYWORD', 2, 'album'), 14), (('KEYWORD', 3, 'be'), 22), (('KEYWORD', 4, 'Beyoncé'), 25), (('KEYWORD', 5, 'be'), 35), (('KEYWORD', 6, '-'), 38), (('KEYWORD', 7, 'be'), 66), (('KEYWORD', 8, 'be'), 77), (('KEYWORD', 9, 'be'), 86), (('KEYWORD', 10, 'feature'), 112)]

NE(s) in the sentence with contribution of each KEYWORD to NE score:

NE is (('PERSON', 1, ['Kitty', 'Kat']), 1) posn is 1

Contribution of (('KEYWORD', 1, 'be'), 3) is 2

Contribution of (('KEYWORD', 2, 'album'), 14) is 13

Contribution of (('KEYWORD', 3, 'be'), 22) is 21

Contribution of (('KEYWORD', 4, 'Beyoncé'), 25) is 24

Contribution of (('KEYWORD', 5, 'be'), 35) is 34

Contribution of (('KEYWORD', 6, '-'), 38) is 37

Contribution of (('KEYWORD', 7, 'be'), 66) is 65

Contribution of (('KEYWORD', 8, 'be'), 77) is 76

Contribution of (('KEYWORD', 9, 'be'), 86) is 85

Contribution of (('KEYWORD', 10, 'feature'), 112) is 111

So, score for (('PERSON', 1, ['Kitty', 'Kat']), 1) is 468

NE is (('PERSON', 2, ['Beyoncé']), 9) posn is 9

Contribution of (('KEYWORD', 1, 'be'), 3) is 6

Contribution of (('KEYWORD', 2, 'album'), 14) is 5

Contribution of (('KEYWORD', 3, 'be'), 22) is 13

Contribution of (('KEYWORD', 4, 'Beyoncé'), 25) is 16

Contribution of (('KEYWORD', 5, 'be'), 35) is 26

Contribution of (('KEYWORD', 6, '-'), 38) is 29

Contribution of (('KEYWORD', 7, 'be'), 66) is 57

Contribution of (('KEYWORD', 8, 'be'), 77) is 68

Contribution of (('KEYWORD', 9, 'be'), 86) is 77

Contribution of (('KEYWORD', 10, 'feature'), 112) is 103

So, score for (('PERSON', 2, ['Beyoncé']), 9) is 400

NE is (('PERSON', 3, ["B'Day"]), 16) posn is 16

Contribution of (('KEYWORD', 1, 'be'), 3) is 13

Contribution of (('KEYWORD', 2, 'album'), 14) is 2

Contribution of (('KEYWORD', 3, 'be'), 22) is 6

Contribution of (('KEYWORD', 4, 'Beyoncé'), 25) is 9

Contribution of (('KEYWORD', 5, 'be'), 35) is 19

Contribution of (('KEYWORD', 6, '-'), 38) is 22

Contribution of (('KEYWORD', 7, 'be'), 66) is 50

Contribution of (('KEYWORD', 8, 'be'), 77) is 61

Contribution of (('KEYWORD', 9, 'be'), 86) is 70

Contribution of (('KEYWORD', 10, 'feature'), 112) is 96

So, score for (('PERSON', 3, ["B'Day"]), 16) is 348

NE is (('PERSON', 4, ['Pharrell', 'Williams']), 27) posn is 27

Contribution of (('KEYWORD', 1, 'be'), 3) is 24

Contribution of (('KEYWORD', 2, 'album'), 14) is 13

Contribution of (('KEYWORD', 3, 'be'), 22) is 5

Contribution of (('KEYWORD', 4, 'Beyoncé'), 25) is 2

Contribution of (('KEYWORD', 5, 'be'), 35) is 8

Contribution of (('KEYWORD', 6, '-'), 38) is 11

Contribution of (('KEYWORD', 7, 'be'), 66) is 39

Contribution of (('KEYWORD', 8, 'be'), 77) is 50

Contribution of (('KEYWORD', 9, 'be'), 86) is 59

Contribution of (('KEYWORD', 10, 'feature'), 112) is 85

So, score for (('PERSON', 4, ['Pharrell', 'Williams']), 27) is 296

NE is (('PERSON', 5, ['Shawn', 'Carter']), 30) posn is 30

Contribution of (('KEYWORD', 1, 'be'), 3) is 27

Contribution of (('KEYWORD', 2, 'album'), 14) is 16

Contribution of (('KEYWORD', 3, 'be'), 22) is 8

Contribution of (('KEYWORD', 4, 'Beyoncé'), 25) is 5

Contribution of (('KEYWORD', 5, 'be'), 35) is 5

Contribution of (('KEYWORD', 6, '-'), 38) is 8

Contribution of (('KEYWORD', 7, 'be'), 66) is 36

Contribution of (('KEYWORD', 8, 'be'), 77) is 47

Contribution of (('KEYWORD', 9, 'be'), 86) is 56

Contribution of (('KEYWORD', 10, 'feature'), 112) is 82

So, score for (('PERSON', 5, ['Shawn', 'Carter']), 30) is 290

NE is (('PERSON', 6, ['Kitty', 'Kat']), 33) posn is 33

Contribution of (('KEYWORD', 1, 'be'), 3) is 30

Contribution of (('KEYWORD', 2, 'album'), 14) is 19

Contribution of (('KEYWORD', 3, 'be'), 22) is 11

Contribution of (('KEYWORD', 4, 'Beyoncé'), 25) is 8

Contribution of (('KEYWORD', 5, 'be'), 35) is 2

Contribution of (('KEYWORD', 6, '-'), 38) is 5

Contribution of (('KEYWORD', 7, 'be'), 66) is 33

Contribution of (('KEYWORD', 8, 'be'), 77) is 44

Contribution of (('KEYWORD', 9, 'be'), 86) is 53

Contribution of (('KEYWORD', 10, 'feature'), 112) is 79

So, score for (('PERSON', 6, ['Kitty', 'Kat']), 33) is 284

NE is (('PERSON', 7, ["B'Day"]), 114) posn is 114

Contribution of (('KEYWORD', 1, 'be'), 3) is 111

Contribution of (('KEYWORD', 2, 'album'), 14) is 100

Contribution of (('KEYWORD', 3, 'be'), 22) is 92

Contribution of (('KEYWORD', 4, 'Beyoncé'), 25) is 89

Contribution of (('KEYWORD', 5, 'be'), 35) is 79

Contribution of (('KEYWORD', 6, '-'), 38) is 76

Contribution of (('KEYWORD', 7, 'be'), 66) is 48

Contribution of (('KEYWORD', 8, 'be'), 77) is 37

Contribution of (('KEYWORD', 9, 'be'), 86) is 28

Contribution of (('KEYWORD', 10, 'feature'), 112) is 2

So, score for (('PERSON', 7, ["B'Day"]), 114) is 662

(Lower NE score means better match but zero score means no KEYWORDs in sentence.)

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original\_query:

when did Beyoncé Knowles-Carter give birth?

search\_tokens extracted:

['when', 'do', 'Beyoncé', 'Knowles', '-', 'Carter', 'give', 'birth', '?']

query\_type\_json: unknown

query\_type\_spacy: PERSON

Elastic query submitted with search\_tokens\_string:

{'multi\_match': {'query': 'when do Beyoncé Knowles - Carter give birth ?', 'fields': [], 'type': 'best\_fields'}}

result\_text\_list:

['Blue Ivy Carter (born January 7, 2012) is an American singer. She is the first-born daughter of musicians Jay-Z and Beyoncé. Two days after her birth, Time dubbed Carter "the most famous baby in the world." That same day, her vocals were featured on the song "Glory", by her father Jay-Z, which earned her a Guinness World Record for being the youngest person to have a charted song on any Billboard chart. She has been the subject of depictions in media, including impersonations on Saturday Night Live and RuPaul\'s Drag Race.']

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Looking at a para, searching for answers:

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Named Entities recognised and search\_tokens marked as KEYWORD:

['Blue', 'Ivy', ('PERSON', 1, ['Carter']), '(', 'bear', 'January', '7', ',', '2012', ')', 'be', 'an', 'american', 'singer', '.', 'she', 'be', 'the', 'first', ('KEYWORD', 1, '-'), 'bear', 'daughter', 'of', 'musician', ('PERSON', 2, ['Jay', '-', 'Z']), 'and', ('KEYWORD', 2, 'Beyoncé'), '.', 'two', 'day', 'after', 'her', ('KEYWORD', 3, 'birth'), ',', 'Time', 'dub', ('PERSON', 3, ['Carter']), '"', 'the', 'most', 'famous', 'baby', 'in', 'the', 'world', '.', '"', 'that', 'same', 'day', ',', 'her', 'vocal', 'be', 'feature', 'on', 'the', 'song', '"', 'Glory', '"', ',', 'by', 'her', 'father', ('PERSON', 4, ['Jay', '-', 'Z']), ',', 'which', 'earn', 'she', 'a', 'Guinness', 'World', 'Record', 'for', 'be', 'the', 'young', 'person', 'to', 'have', 'a', 'chart', 'song', 'on', 'any', ('PERSON', 5, ['Billboard']), 'chart', '.', 'she', 'have', 'be', 'the', 'subject', 'of', 'depiction', 'in', 'medium', ',', 'include', 'impersonation', 'on', 'Saturday', 'Night', 'Live', 'and', 'RuPaul', "'s", 'Drag', 'Race', '.']

Named Entities listed with position of each (1st word is number 0):

[(('PERSON', 1, ['Carter']), 2), (('PERSON', 2, ['Jay', '-', 'Z']), 24), (('PERSON', 3, ['Carter']), 36), (('PERSON', 4, ['Jay', '-', 'Z']), 65), (('PERSON', 5, ['Billboard']), 86)]

KEYWORDS listed with position of each:

[(('KEYWORD', 1, '-'), 19), (('KEYWORD', 2, 'Beyoncé'), 26), (('KEYWORD', 3, 'birth'), 32)]

NE(s) in the sentence with contribution of each KEYWORD to NE score:

NE is (('PERSON', 1, ['Carter']), 2) posn is 2

Contribution of (('KEYWORD', 1, '-'), 19) is 17

Contribution of (('KEYWORD', 2, 'Beyoncé'), 26) is 24

Contribution of (('KEYWORD', 3, 'birth'), 32) is 30

So, score for (('PERSON', 1, ['Carter']), 2) is 71

NE is (('PERSON', 2, ['Jay', '-', 'Z']), 24) posn is 24

Contribution of (('KEYWORD', 1, '-'), 19) is 5

Contribution of (('KEYWORD', 2, 'Beyoncé'), 26) is 2

Contribution of (('KEYWORD', 3, 'birth'), 32) is 8

So, score for (('PERSON', 2, ['Jay', '-', 'Z']), 24) is 15

NE is (('PERSON', 3, ['Carter']), 36) posn is 36

Contribution of (('KEYWORD', 1, '-'), 19) is 17

Contribution of (('KEYWORD', 2, 'Beyoncé'), 26) is 10

Contribution of (('KEYWORD', 3, 'birth'), 32) is 4

So, score for (('PERSON', 3, ['Carter']), 36) is 31

NE is (('PERSON', 4, ['Jay', '-', 'Z']), 65) posn is 65

Contribution of (('KEYWORD', 1, '-'), 19) is 46

Contribution of (('KEYWORD', 2, 'Beyoncé'), 26) is 39

Contribution of (('KEYWORD', 3, 'birth'), 32) is 33

So, score for (('PERSON', 4, ['Jay', '-', 'Z']), 65) is 118

NE is (('PERSON', 5, ['Billboard']), 86) posn is 86

Contribution of (('KEYWORD', 1, '-'), 19) is 67

Contribution of (('KEYWORD', 2, 'Beyoncé'), 26) is 60

Contribution of (('KEYWORD', 3, 'birth'), 32) is 54

So, score for (('PERSON', 5, ['Billboard']), 86) is 181

(Lower NE score means better match but zero score means no KEYWORDs in sentence.)

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original\_query:

What collaborations did Beyoncé Knowles-Carter?

search\_tokens extracted:

['what', 'collaboration', 'do', 'Beyoncé', 'Knowles', '-', 'Carter', '?']

query\_type\_json: unknown

query\_type\_spacy: PERSON

Elastic query submitted with search\_tokens\_string:

{'multi\_match': {'query': 'what collaboration do Beyoncé Knowles - Carter ?', 'fields': [], 'type': 'best\_fields'}}

result\_text\_list:

['"Video Phone" is a song recorded by American singer Beyoncé for her third studio album I Am... Sasha Fierce (2008). It was written and produced by Beyoncé, Shondrae Crawford and Sean Garrett. A crunk song, it consists of simple lyrics and hidden innuendos. The lyrics refer to putting up a sexy display to be recorded on a video phone. The song was released as the eighth single from I Am... Sasha Fierce on September 22, 2009, with its remix featuring Lady Gaga being released on November 17.']

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Looking at a para, searching for answers:

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Named Entities recognised and search\_tokens marked as KEYWORD:

['"', 'Video', 'Phone', '"', 'be', 'a', 'song', 'record', 'by', 'american', 'singer', ('PERSON', 1, ['Beyoncé']), 'for', 'her', 'third', 'studio', 'album', 'I', 'be', '...', 'Sasha', 'Fierce', '(', '2008', ')', '.', 'it', 'be', 'write', 'and', 'produce', 'by', ('KEYWORD', 1, 'Beyoncé'), ',', ('PERSON', 2, ['Shondrae', 'Crawford']), 'and', ('PERSON', 3, ['Sean', 'Garrett']), '.', 'a', 'crunk', 'song', ',', 'it', 'consist', 'of', 'simple', 'lyric', 'and', 'hidden', 'innuendo', '.', 'the', 'lyric', 'refer', 'to', 'put', 'up', 'a', 'sexy', 'display', 'to', 'be', 'record', 'on', 'a', 'video', 'phone', '.', 'the', 'song', 'be', 'release', 'as', 'the', 'eighth', 'single', 'from', 'I', 'be', '...', 'Sasha', 'Fierce', 'on', 'September', '22', ',', '2009', ',', 'with', 'its', 'remix', 'feature', ('PERSON', 4, ['Lady', 'Gaga']), 'be', 'release', 'on', 'November', '17', '.']

Named Entities listed with position of each (1st word is number 0):

[(('PERSON', 1, ['Beyoncé']), 11), (('PERSON', 2, ['Shondrae', 'Crawford']), 34), (('PERSON', 3, ['Sean', 'Garrett']), 36), (('PERSON', 4, ['Lady', 'Gaga']), 92)]

KEYWORDS listed with position of each:

[(('KEYWORD', 1, 'Beyoncé'), 32)]

NE(s) in the sentence with contribution of each KEYWORD to NE score:

NE is (('PERSON', 1, ['Beyoncé']), 11) posn is 11

Contribution of (('KEYWORD', 1, 'Beyoncé'), 32) is 21

So, score for (('PERSON', 1, ['Beyoncé']), 11) is 21

NE is (('PERSON', 2, ['Shondrae', 'Crawford']), 34) posn is 34

Contribution of (('KEYWORD', 1, 'Beyoncé'), 32) is 2

So, score for (('PERSON', 2, ['Shondrae', 'Crawford']), 34) is 2

NE is (('PERSON', 3, ['Sean', 'Garrett']), 36) posn is 36

Contribution of (('KEYWORD', 1, 'Beyoncé'), 32) is 4

So, score for (('PERSON', 3, ['Sean', 'Garrett']), 36) is 4

NE is (('PERSON', 4, ['Lady', 'Gaga']), 92) posn is 92

Contribution of (('KEYWORD', 1, 'Beyoncé'), 32) is 60

So, score for (('PERSON', 4, ['Lady', 'Gaga']), 92) is 60

(Lower NE score means better match but zero score means no KEYWORDs in sentence.)

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original\_query:

Where is BeyGOOD located?

search\_tokens extracted:

['where', 'be', 'BeyGOOD', 'locate', '?']

query\_type\_json: unknown

query\_type\_spacy: PERSON

Elastic query submitted with search\_tokens\_string:

{'multi\_match': {'query': 'where be BeyGOOD locate ?', 'fields': [], 'type': 'best\_fields'}}

result\_text\_list:

['Damizza Presents... Where I Wanna Be is a compilation album presented by American record producer Damizza. It was released on October 31, 2000 through London Records. Production was handled by Eddie Berkeley, Jermaine Dupri, KayGee, Warren G, and Damizza himself, who also served as executive producer together with co-executive producers Rick Cummings, Shade Sheist and Sujit Kundu. It features contributions from Shade Sheist, Damon Sharpe, Krayzie Bone, TQ, Big Caz, Ja Rule, Kurupt, Layzie Bone, Nate Dogg, Tatum Tots and Damizza. The album peaked at number 143 on the Billboard 200 and number 28 on the Top R&B/Hip-Hop Albums in the United States.']

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Looking at a para, searching for answers:

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Named Entities recognised and search\_tokens marked as KEYWORD:

[('PERSON', 1, ['Damizza', 'Presents']), '...', ('KEYWORD', 1, 'where'), 'I', 'Wanna', ('KEYWORD', 2, 'be'), ('KEYWORD', 3, 'be'), 'a', 'compilation', 'album', 'present', 'by', 'american', 'record', 'producer', ('PERSON', 2, ['Damizza']), '.', 'it', ('KEYWORD', 4, 'be'), 'release', 'on', 'October', '31', ',', '2000', 'through', 'London', 'Records', '.', 'production', ('KEYWORD', 5, 'be'), 'handle', 'by', ('PERSON', 3, ['Eddie', 'Berkeley']), ',', ('PERSON', 4, ['Jermaine', 'Dupri']), ',', 'KayGee', ',', ('PERSON', 5, ['Warren', 'G']), ',', 'and', ('PERSON', 6, ['Damizza']), 'himself', ',', 'who', 'also', 'serve', 'as', 'executive', 'producer', 'together', 'with', 'co', '-', 'executive', 'producer', ('PERSON', 7, ['Rick', 'Cummings']), ',', 'Shade', 'Sheist', 'and', 'Sujit', 'Kundu', '.', 'it', 'feature', 'contribution', 'from', 'Shade', ('PERSON', 8, ['Sheist']), ',', 'Damon', ('PERSON', 9, ['Sharpe']), ',', 'Krayzie', 'Bone', ',', 'TQ', ',', 'Big', 'Caz', ',', ('PERSON', 10, ['Ja', 'Rule']), ',', 'Kurupt', ',', ('PERSON', 11, ['Layzie', 'Bone']), ',', 'Nate', 'Dogg', ',', ('PERSON', 12, ['Tatum', 'Tots']), 'and', ('PERSON', 13, ['Damizza']), '.', 'the', 'album', 'peak', 'at', 'number', '143', 'on', 'the', 'Billboard', '200', 'and', 'number', '28', 'on', 'the', 'Top', 'R&B', '/', 'Hip', '-', 'Hop', 'Albums', 'in', 'the', 'United', 'States', '.']

Named Entities listed with position of each (1st word is number 0):

[(('PERSON', 1, ['Damizza', 'Presents']), 0), (('PERSON', 2, ['Damizza']), 15), (('PERSON', 3, ['Eddie', 'Berkeley']), 33), (('PERSON', 4, ['Jermaine', 'Dupri']), 35), (('PERSON', 5, ['Warren', 'G']), 39), (('PERSON', 6, ['Damizza']), 42), (('PERSON', 7, ['Rick', 'Cummings']), 57), (('PERSON', 8, ['Sheist']), 70), (('PERSON', 9, ['Sharpe']), 73), (('PERSON', 10, ['Ja', 'Rule']), 83), (('PERSON', 11, ['Layzie', 'Bone']), 87), (('PERSON', 12, ['Tatum', 'Tots']), 92), (('PERSON', 13, ['Damizza']), 94)]

KEYWORDS listed with position of each:

[(('KEYWORD', 1, 'where'), 2), (('KEYWORD', 2, 'be'), 5), (('KEYWORD', 3, 'be'), 6), (('KEYWORD', 4, 'be'), 18), (('KEYWORD', 5, 'be'), 30)]

NE(s) in the sentence with contribution of each KEYWORD to NE score:

NE is (('PERSON', 1, ['Damizza', 'Presents']), 0) posn is 0

Contribution of (('KEYWORD', 1, 'where'), 2) is 2

Contribution of (('KEYWORD', 2, 'be'), 5) is 5

Contribution of (('KEYWORD', 3, 'be'), 6) is 6

Contribution of (('KEYWORD', 4, 'be'), 18) is 18

Contribution of (('KEYWORD', 5, 'be'), 30) is 30

So, score for (('PERSON', 1, ['Damizza', 'Presents']), 0) is 61

NE is (('PERSON', 2, ['Damizza']), 15) posn is 15

Contribution of (('KEYWORD', 1, 'where'), 2) is 13

Contribution of (('KEYWORD', 2, 'be'), 5) is 10

Contribution of (('KEYWORD', 3, 'be'), 6) is 9

Contribution of (('KEYWORD', 4, 'be'), 18) is 3

Contribution of (('KEYWORD', 5, 'be'), 30) is 15

So, score for (('PERSON', 2, ['Damizza']), 15) is 50

NE is (('PERSON', 3, ['Eddie', 'Berkeley']), 33) posn is 33

Contribution of (('KEYWORD', 1, 'where'), 2) is 31

Contribution of (('KEYWORD', 2, 'be'), 5) is 28

Contribution of (('KEYWORD', 3, 'be'), 6) is 27

Contribution of (('KEYWORD', 4, 'be'), 18) is 15

Contribution of (('KEYWORD', 5, 'be'), 30) is 3

So, score for (('PERSON', 3, ['Eddie', 'Berkeley']), 33) is 104

NE is (('PERSON', 4, ['Jermaine', 'Dupri']), 35) posn is 35

Contribution of (('KEYWORD', 1, 'where'), 2) is 33

Contribution of (('KEYWORD', 2, 'be'), 5) is 30

Contribution of (('KEYWORD', 3, 'be'), 6) is 29

Contribution of (('KEYWORD', 4, 'be'), 18) is 17

Contribution of (('KEYWORD', 5, 'be'), 30) is 5

So, score for (('PERSON', 4, ['Jermaine', 'Dupri']), 35) is 114

NE is (('PERSON', 5, ['Warren', 'G']), 39) posn is 39

Contribution of (('KEYWORD', 1, 'where'), 2) is 37

Contribution of (('KEYWORD', 2, 'be'), 5) is 34

Contribution of (('KEYWORD', 3, 'be'), 6) is 33

Contribution of (('KEYWORD', 4, 'be'), 18) is 21

Contribution of (('KEYWORD', 5, 'be'), 30) is 9

So, score for (('PERSON', 5, ['Warren', 'G']), 39) is 134

NE is (('PERSON', 6, ['Damizza']), 42) posn is 42

Contribution of (('KEYWORD', 1, 'where'), 2) is 40

Contribution of (('KEYWORD', 2, 'be'), 5) is 37

Contribution of (('KEYWORD', 3, 'be'), 6) is 36

Contribution of (('KEYWORD', 4, 'be'), 18) is 24

Contribution of (('KEYWORD', 5, 'be'), 30) is 12

So, score for (('PERSON', 6, ['Damizza']), 42) is 149

NE is (('PERSON', 7, ['Rick', 'Cummings']), 57) posn is 57

Contribution of (('KEYWORD', 1, 'where'), 2) is 55

Contribution of (('KEYWORD', 2, 'be'), 5) is 52

Contribution of (('KEYWORD', 3, 'be'), 6) is 51

Contribution of (('KEYWORD', 4, 'be'), 18) is 39

Contribution of (('KEYWORD', 5, 'be'), 30) is 27

So, score for (('PERSON', 7, ['Rick', 'Cummings']), 57) is 224

NE is (('PERSON', 8, ['Sheist']), 70) posn is 70

Contribution of (('KEYWORD', 1, 'where'), 2) is 68

Contribution of (('KEYWORD', 2, 'be'), 5) is 65

Contribution of (('KEYWORD', 3, 'be'), 6) is 64

Contribution of (('KEYWORD', 4, 'be'), 18) is 52

Contribution of (('KEYWORD', 5, 'be'), 30) is 40

So, score for (('PERSON', 8, ['Sheist']), 70) is 289

NE is (('PERSON', 9, ['Sharpe']), 73) posn is 73

Contribution of (('KEYWORD', 1, 'where'), 2) is 71

Contribution of (('KEYWORD', 2, 'be'), 5) is 68

Contribution of (('KEYWORD', 3, 'be'), 6) is 67

Contribution of (('KEYWORD', 4, 'be'), 18) is 55

Contribution of (('KEYWORD', 5, 'be'), 30) is 43

So, score for (('PERSON', 9, ['Sharpe']), 73) is 304

NE is (('PERSON', 10, ['Ja', 'Rule']), 83) posn is 83

Contribution of (('KEYWORD', 1, 'where'), 2) is 81

Contribution of (('KEYWORD', 2, 'be'), 5) is 78

Contribution of (('KEYWORD', 3, 'be'), 6) is 77

Contribution of (('KEYWORD', 4, 'be'), 18) is 65

Contribution of (('KEYWORD', 5, 'be'), 30) is 53

So, score for (('PERSON', 10, ['Ja', 'Rule']), 83) is 354

NE is (('PERSON', 11, ['Layzie', 'Bone']), 87) posn is 87

Contribution of (('KEYWORD', 1, 'where'), 2) is 85

Contribution of (('KEYWORD', 2, 'be'), 5) is 82

Contribution of (('KEYWORD', 3, 'be'), 6) is 81

Contribution of (('KEYWORD', 4, 'be'), 18) is 69

Contribution of (('KEYWORD', 5, 'be'), 30) is 57

So, score for (('PERSON', 11, ['Layzie', 'Bone']), 87) is 374

NE is (('PERSON', 12, ['Tatum', 'Tots']), 92) posn is 92

Contribution of (('KEYWORD', 1, 'where'), 2) is 90

Contribution of (('KEYWORD', 2, 'be'), 5) is 87

Contribution of (('KEYWORD', 3, 'be'), 6) is 86

Contribution of (('KEYWORD', 4, 'be'), 18) is 74

Contribution of (('KEYWORD', 5, 'be'), 30) is 62

So, score for (('PERSON', 12, ['Tatum', 'Tots']), 92) is 399

NE is (('PERSON', 13, ['Damizza']), 94) posn is 94

Contribution of (('KEYWORD', 1, 'where'), 2) is 92

Contribution of (('KEYWORD', 2, 'be'), 5) is 89

Contribution of (('KEYWORD', 3, 'be'), 6) is 88

Contribution of (('KEYWORD', 4, 'be'), 18) is 76

Contribution of (('KEYWORD', 5, 'be'), 30) is 64

So, score for (('PERSON', 13, ['Damizza']), 94) is 409

(Lower NE score means better match but zero score means no KEYWORDs in sentence.)

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original\_query:

What venues has Beyoncé Knowles-Carter performed in Los Angeles Beyonce?

search\_tokens extracted:

['what', 'venue', 'have', 'Beyoncé', 'Knowles', '-', 'Carter', 'perform', 'in', 'Los', 'Angeles', 'Beyonce', '?']

query\_type\_json: unknown

query\_type\_spacy: PERSON

Elastic query submitted with search\_tokens\_string:

{'multi\_match': {'query': 'what venue have Beyoncé Knowles - Carter perform in Los Angeles Beyonce ?', 'fields': [], 'type': 'best\_fields'}}

result\_text\_list:

["Celestine Beyoncé Knowles-Lawson (née Beyonce; born January 4, 1954) is an American businesswoman, fashion designer, and philanthropist known for establishing the brands House of Deréon and Miss Tina by Tina Knowles. She is the mother of singers Beyoncé and Solange Knowles, and, until 2011, was married to their father Mathew Knowles, the manager of Destiny's Child."]

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Looking at a para, searching for answers:

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Named Entities recognised and search\_tokens marked as KEYWORD:

[('PERSON', 1, ['Celestine', 'Beyoncé', 'Knowles', '-', 'Lawson']), '(', 'née', ('PERSON', 2, ['Beyonce']), ';', 'bear', 'January', '4', ',', '1954', ')', 'be', 'an', 'american', 'businesswoman', ',', 'fashion', 'designer', ',', 'and', 'philanthropist', 'know', 'for', 'establish', 'the', 'brand', 'House', 'of', 'Deréon', 'and', 'Miss', ('PERSON', 3, ['Tina']), 'by', ('PERSON', 4, ['Tina', 'Knowles']), '.', 'she', 'be', 'the', 'mother', 'of', 'singer', ('KEYWORD', 1, 'Beyoncé'), 'and', 'Solange', ('KEYWORD', 2, 'Knowles'), ',', 'and', ',', 'until', '2011', ',', 'be', 'married', 'to', 'their', 'father', ('PERSON', 5, ['Mathew', 'Knowles']), ',', 'the', 'manager', 'of', 'Destiny', "'s", 'child', '.']

Named Entities listed with position of each (1st word is number 0):

[(('PERSON', 1, ['Celestine', 'Beyoncé', 'Knowles', '-', 'Lawson']), 0), (('PERSON', 2, ['Beyonce']), 3), (('PERSON', 3, ['Tina']), 31), (('PERSON', 4, ['Tina', 'Knowles']), 33), (('PERSON', 5, ['Mathew', 'Knowles']), 56)]

KEYWORDS listed with position of each:

[(('KEYWORD', 1, 'Beyoncé'), 41), (('KEYWORD', 2, 'Knowles'), 44)]

NE(s) in the sentence with contribution of each KEYWORD to NE score:

NE is (('PERSON', 1, ['Celestine', 'Beyoncé', 'Knowles', '-', 'Lawson']), 0) posn is 0

Contribution of (('KEYWORD', 1, 'Beyoncé'), 41) is 41

Contribution of (('KEYWORD', 2, 'Knowles'), 44) is 44

So, score for (('PERSON', 1, ['Celestine', 'Beyoncé', 'Knowles', '-', 'Lawson']), 0) is 85

NE is (('PERSON', 2, ['Beyonce']), 3) posn is 3

Contribution of (('KEYWORD', 1, 'Beyoncé'), 41) is 38

Contribution of (('KEYWORD', 2, 'Knowles'), 44) is 41

So, score for (('PERSON', 2, ['Beyonce']), 3) is 79

NE is (('PERSON', 3, ['Tina']), 31) posn is 31

Contribution of (('KEYWORD', 1, 'Beyoncé'), 41) is 10

Contribution of (('KEYWORD', 2, 'Knowles'), 44) is 13

So, score for (('PERSON', 3, ['Tina']), 31) is 23

NE is (('PERSON', 4, ['Tina', 'Knowles']), 33) posn is 33

Contribution of (('KEYWORD', 1, 'Beyoncé'), 41) is 8

Contribution of (('KEYWORD', 2, 'Knowles'), 44) is 11

So, score for (('PERSON', 4, ['Tina', 'Knowles']), 33) is 19

NE is (('PERSON', 5, ['Mathew', 'Knowles']), 56) posn is 56

Contribution of (('KEYWORD', 1, 'Beyoncé'), 41) is 15

Contribution of (('KEYWORD', 2, 'Knowles'), 44) is 12

So, score for (('PERSON', 5, ['Mathew', 'Knowles']), 56) is 27

(Lower NE score means better match but zero score means no KEYWORDs in sentence.)

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original\_query:

Who is Beyoncé Knowles-Carter family?

search\_tokens extracted:

['who', 'be', 'Beyoncé', 'Knowles', '-', 'Carter', 'family', '?']

query\_type\_json: unknown

query\_type\_spacy: PERSON

Elastic query submitted with search\_tokens\_string:

{'multi\_match': {'query': 'who be Beyoncé Knowles - Carter family ?', 'fields': [], 'type': 'best\_fields'}}

result\_text\_list:

["Celestine Beyoncé Knowles-Lawson (née Beyonce; born January 4, 1954) is an American businesswoman, fashion designer, and philanthropist known for establishing the brands House of Deréon and Miss Tina by Tina Knowles. She is the mother of singers Beyoncé and Solange Knowles, and, until 2011, was married to their father Mathew Knowles, the manager of Destiny's Child."]

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Looking at a para, searching for answers:

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Named Entities recognised and search\_tokens marked as KEYWORD:

[('PERSON', 1, ['Celestine', 'Beyoncé', 'Knowles', '-', 'Lawson']), '(', 'née', ('PERSON', 2, ['Beyonce']), ';', 'bear', 'January', '4', ',', '1954', ')', ('KEYWORD', 1, 'be'), 'an', 'american', 'businesswoman', ',', 'fashion', 'designer', ',', 'and', 'philanthropist', 'know', 'for', 'establish', 'the', 'brand', 'House', 'of', 'Deréon', 'and', 'Miss', ('PERSON', 3, ['Tina']), 'by', ('PERSON', 4, ['Tina', 'Knowles']), '.', 'she', ('KEYWORD', 2, 'be'), 'the', 'mother', 'of', 'singer', ('KEYWORD', 3, 'Beyoncé'), 'and', 'Solange', ('KEYWORD', 4, 'Knowles'), ',', 'and', ',', 'until', '2011', ',', ('KEYWORD', 5, 'be'), 'married', 'to', 'their', 'father', ('PERSON', 5, ['Mathew', 'Knowles']), ',', 'the', 'manager', 'of', 'Destiny', "'s", 'child', '.']

Named Entities listed with position of each (1st word is number 0):

[(('PERSON', 1, ['Celestine', 'Beyoncé', 'Knowles', '-', 'Lawson']), 0), (('PERSON', 2, ['Beyonce']), 3), (('PERSON', 3, ['Tina']), 31), (('PERSON', 4, ['Tina', 'Knowles']), 33), (('PERSON', 5, ['Mathew', 'Knowles']), 56)]

KEYWORDS listed with position of each:

[(('KEYWORD', 1, 'be'), 11), (('KEYWORD', 2, 'be'), 36), (('KEYWORD', 3, 'Beyoncé'), 41), (('KEYWORD', 4, 'Knowles'), 44), (('KEYWORD', 5, 'be'), 51)]

NE(s) in the sentence with contribution of each KEYWORD to NE score:

NE is (('PERSON', 1, ['Celestine', 'Beyoncé', 'Knowles', '-', 'Lawson']), 0) posn is 0

Contribution of (('KEYWORD', 1, 'be'), 11) is 11

Contribution of (('KEYWORD', 2, 'be'), 36) is 36

Contribution of (('KEYWORD', 3, 'Beyoncé'), 41) is 41

Contribution of (('KEYWORD', 4, 'Knowles'), 44) is 44

Contribution of (('KEYWORD', 5, 'be'), 51) is 51

So, score for (('PERSON', 1, ['Celestine', 'Beyoncé', 'Knowles', '-', 'Lawson']), 0) is 183

NE is (('PERSON', 2, ['Beyonce']), 3) posn is 3

Contribution of (('KEYWORD', 1, 'be'), 11) is 8

Contribution of (('KEYWORD', 2, 'be'), 36) is 33

Contribution of (('KEYWORD', 3, 'Beyoncé'), 41) is 38

Contribution of (('KEYWORD', 4, 'Knowles'), 44) is 41

Contribution of (('KEYWORD', 5, 'be'), 51) is 48

So, score for (('PERSON', 2, ['Beyonce']), 3) is 168

NE is (('PERSON', 3, ['Tina']), 31) posn is 31

Contribution of (('KEYWORD', 1, 'be'), 11) is 20

Contribution of (('KEYWORD', 2, 'be'), 36) is 5

Contribution of (('KEYWORD', 3, 'Beyoncé'), 41) is 10

Contribution of (('KEYWORD', 4, 'Knowles'), 44) is 13

Contribution of (('KEYWORD', 5, 'be'), 51) is 20

So, score for (('PERSON', 3, ['Tina']), 31) is 68

NE is (('PERSON', 4, ['Tina', 'Knowles']), 33) posn is 33

Contribution of (('KEYWORD', 1, 'be'), 11) is 22

Contribution of (('KEYWORD', 2, 'be'), 36) is 3

Contribution of (('KEYWORD', 3, 'Beyoncé'), 41) is 8

Contribution of (('KEYWORD', 4, 'Knowles'), 44) is 11

Contribution of (('KEYWORD', 5, 'be'), 51) is 18

So, score for (('PERSON', 4, ['Tina', 'Knowles']), 33) is 62

NE is (('PERSON', 5, ['Mathew', 'Knowles']), 56) posn is 56

Contribution of (('KEYWORD', 1, 'be'), 11) is 45

Contribution of (('KEYWORD', 2, 'be'), 36) is 20

Contribution of (('KEYWORD', 3, 'Beyoncé'), 41) is 15

Contribution of (('KEYWORD', 4, 'Knowles'), 44) is 12

Contribution of (('KEYWORD', 5, 'be'), 51) is 5

So, score for (('PERSON', 5, ['Mathew', 'Knowles']), 56) is 97

(Lower NE score means better match but zero score means no KEYWORDs in sentence.)

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original\_query:

What are Beyoncé Knowles-Carter Grammy Awards ?

search\_tokens extracted:

['what', 'be', 'Beyoncé', 'Knowles', '-', 'Carter', 'Grammy', 'Awards', '?']

query\_type\_json: unknown

query\_type\_spacy: PERSON

Elastic query submitted with search\_tokens\_string:

{'multi\_match': {'query': 'what be Beyoncé Knowles - Carter Grammy Awards ?', 'fields': [], 'type': 'best\_fields'}}

result\_text\_list:

['Blue Ivy Carter (born January 7, 2012) is an American singer. She is the first-born daughter of musicians Jay-Z and Beyoncé. Two days after her birth, Time dubbed Carter "the most famous baby in the world." That same day, her vocals were featured on the song "Glory", by her father Jay-Z, which earned her a Guinness World Record for being the youngest person to have a charted song on any Billboard chart. She has been the subject of depictions in media, including impersonations on Saturday Night Live and RuPaul\'s Drag Race.']

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Looking at a para, searching for answers:

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Named Entities recognised and search\_tokens marked as KEYWORD:

['Blue', 'Ivy', ('PERSON', 1, ['Carter']), '(', 'bear', 'January', '7', ',', '2012', ')', ('KEYWORD', 1, 'be'), 'an', 'american', 'singer', '.', 'she', ('KEYWORD', 2, 'be'), 'the', 'first', ('KEYWORD', 3, '-'), 'bear', 'daughter', 'of', 'musician', ('PERSON', 2, ['Jay', '-', 'Z']), 'and', ('KEYWORD', 4, 'Beyoncé'), '.', 'two', 'day', 'after', 'her', 'birth', ',', 'Time', 'dub', ('PERSON', 3, ['Carter']), '"', 'the', 'most', 'famous', 'baby', 'in', 'the', 'world', '.', '"', 'that', 'same', 'day', ',', 'her', 'vocal', ('KEYWORD', 5, 'be'), 'feature', 'on', 'the', 'song', '"', 'Glory', '"', ',', 'by', 'her', 'father', ('PERSON', 4, ['Jay', '-', 'Z']), ',', 'which', 'earn', 'she', 'a', 'Guinness', 'World', 'Record', 'for', ('KEYWORD', 6, 'be'), 'the', 'young', 'person', 'to', 'have', 'a', 'chart', 'song', 'on', 'any', ('PERSON', 5, ['Billboard']), 'chart', '.', 'she', 'have', ('KEYWORD', 7, 'be'), 'the', 'subject', 'of', 'depiction', 'in', 'medium', ',', 'include', 'impersonation', 'on', 'Saturday', 'Night', 'Live', 'and', 'RuPaul', "'s", 'Drag', 'Race', '.']

Named Entities listed with position of each (1st word is number 0):

[(('PERSON', 1, ['Carter']), 2), (('PERSON', 2, ['Jay', '-', 'Z']), 24), (('PERSON', 3, ['Carter']), 36), (('PERSON', 4, ['Jay', '-', 'Z']), 65), (('PERSON', 5, ['Billboard']), 86)]

KEYWORDS listed with position of each:

[(('KEYWORD', 1, 'be'), 10), (('KEYWORD', 2, 'be'), 16), (('KEYWORD', 3, '-'), 19), (('KEYWORD', 4, 'Beyoncé'), 26), (('KEYWORD', 5, 'be'), 53), (('KEYWORD', 6, 'be'), 75), (('KEYWORD', 7, 'be'), 91)]

NE(s) in the sentence with contribution of each KEYWORD to NE score:

NE is (('PERSON', 1, ['Carter']), 2) posn is 2

Contribution of (('KEYWORD', 1, 'be'), 10) is 8

Contribution of (('KEYWORD', 2, 'be'), 16) is 14

Contribution of (('KEYWORD', 3, '-'), 19) is 17

Contribution of (('KEYWORD', 4, 'Beyoncé'), 26) is 24

Contribution of (('KEYWORD', 5, 'be'), 53) is 51

Contribution of (('KEYWORD', 6, 'be'), 75) is 73

Contribution of (('KEYWORD', 7, 'be'), 91) is 89

So, score for (('PERSON', 1, ['Carter']), 2) is 276

NE is (('PERSON', 2, ['Jay', '-', 'Z']), 24) posn is 24

Contribution of (('KEYWORD', 1, 'be'), 10) is 14

Contribution of (('KEYWORD', 2, 'be'), 16) is 8

Contribution of (('KEYWORD', 3, '-'), 19) is 5

Contribution of (('KEYWORD', 4, 'Beyoncé'), 26) is 2

Contribution of (('KEYWORD', 5, 'be'), 53) is 29

Contribution of (('KEYWORD', 6, 'be'), 75) is 51

Contribution of (('KEYWORD', 7, 'be'), 91) is 67

So, score for (('PERSON', 2, ['Jay', '-', 'Z']), 24) is 176

NE is (('PERSON', 3, ['Carter']), 36) posn is 36

Contribution of (('KEYWORD', 1, 'be'), 10) is 26

Contribution of (('KEYWORD', 2, 'be'), 16) is 20

Contribution of (('KEYWORD', 3, '-'), 19) is 17

Contribution of (('KEYWORD', 4, 'Beyoncé'), 26) is 10

Contribution of (('KEYWORD', 5, 'be'), 53) is 17

Contribution of (('KEYWORD', 6, 'be'), 75) is 39

Contribution of (('KEYWORD', 7, 'be'), 91) is 55

So, score for (('PERSON', 3, ['Carter']), 36) is 184

NE is (('PERSON', 4, ['Jay', '-', 'Z']), 65) posn is 65

Contribution of (('KEYWORD', 1, 'be'), 10) is 55

Contribution of (('KEYWORD', 2, 'be'), 16) is 49

Contribution of (('KEYWORD', 3, '-'), 19) is 46

Contribution of (('KEYWORD', 4, 'Beyoncé'), 26) is 39

Contribution of (('KEYWORD', 5, 'be'), 53) is 12

Contribution of (('KEYWORD', 6, 'be'), 75) is 10

Contribution of (('KEYWORD', 7, 'be'), 91) is 26

So, score for (('PERSON', 4, ['Jay', '-', 'Z']), 65) is 237

NE is (('PERSON', 5, ['Billboard']), 86) posn is 86

Contribution of (('KEYWORD', 1, 'be'), 10) is 76

Contribution of (('KEYWORD', 2, 'be'), 16) is 70

Contribution of (('KEYWORD', 3, '-'), 19) is 67

Contribution of (('KEYWORD', 4, 'Beyoncé'), 26) is 60

Contribution of (('KEYWORD', 5, 'be'), 53) is 33

Contribution of (('KEYWORD', 6, 'be'), 75) is 11

Contribution of (('KEYWORD', 7, 'be'), 91) is 5

So, score for (('PERSON', 5, ['Billboard']), 86) is 322

(Lower NE score means better match but zero score means no KEYWORDs in sentence.)

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original\_query:

which are the best places in Los Angeles?

search\_tokens extracted:

['which', 'be', 'the', 'good', 'place', 'in', 'Los', 'Angeles', '?']

query\_type\_json: unknown

query\_type\_spacy: PERSON

Elastic query submitted with search\_tokens\_string:

{'multi\_match': {'query': 'which be the good place in Los Angeles ?', 'fields': [], 'type': 'best\_fields'}}

result\_text\_list:

['"Ka Hakaka Maika\'i" (Hawaiian for: "The Good Fight") is the sixth episode of the second season of Hawaii Five-0. It aired on October 24, 2011 on CBS. The episode was written by Kyle Harimoto and directed by Larry Teng. The episode included a crossover appearance from Daniela Ruah as Kensi Blye, her character from NCIS: Los Angeles.']

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Looking at a para, searching for answers:

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Named Entities recognised and search\_tokens marked as KEYWORD:

['"', 'Ka', 'Hakaka', "Maika'i", '"', '(', 'hawaiian', 'for', ':', '"', ('KEYWORD', 1, 'the'), 'Good', 'Fight', '"', ')', ('KEYWORD', 2, 'be'), ('KEYWORD', 3, 'the'), 'sixth', 'episode', 'of', ('KEYWORD', 4, 'the'), 'second', 'season', 'of', 'Hawaii', 'five-0', '.', 'it', 'air', 'on', 'October', '24', ',', '2011', 'on', 'CBS', '.', ('KEYWORD', 5, 'the'), 'episode', ('KEYWORD', 6, 'be'), 'write', 'by', ('PERSON', 1, ['Kyle', 'Harimoto']), 'and', 'direct', 'by', ('PERSON', 2, ['Larry', 'Teng']), '.', ('KEYWORD', 7, 'the'), 'episode', 'include', 'a', 'crossover', 'appearance', 'from', ('PERSON', 3, ['Daniela', 'Ruah']), 'as', ('PERSON', 4, ['Kensi', 'Blye']), ',', 'her', 'character', 'from', 'NCIS', ':', ('KEYWORD', 8, 'Los'), ('KEYWORD', 9, 'Angeles'), '.']

Named Entities listed with position of each (1st word is number 0):

[(('PERSON', 1, ['Kyle', 'Harimoto']), 42), (('PERSON', 2, ['Larry', 'Teng']), 46), (('PERSON', 3, ['Daniela', 'Ruah']), 55), (('PERSON', 4, ['Kensi', 'Blye']), 57)]

KEYWORDS listed with position of each:

[(('KEYWORD', 1, 'the'), 10), (('KEYWORD', 2, 'be'), 15), (('KEYWORD', 3, 'the'), 16), (('KEYWORD', 4, 'the'), 20), (('KEYWORD', 5, 'the'), 37), (('KEYWORD', 6, 'be'), 39), (('KEYWORD', 7, 'the'), 48), (('KEYWORD', 8, 'Los'), 64), (('KEYWORD', 9, 'Angeles'), 65)]

NE(s) in the sentence with contribution of each KEYWORD to NE score:

NE is (('PERSON', 1, ['Kyle', 'Harimoto']), 42) posn is 42

Contribution of (('KEYWORD', 1, 'the'), 10) is 32

Contribution of (('KEYWORD', 2, 'be'), 15) is 27

Contribution of (('KEYWORD', 3, 'the'), 16) is 26

Contribution of (('KEYWORD', 4, 'the'), 20) is 22

Contribution of (('KEYWORD', 5, 'the'), 37) is 5

Contribution of (('KEYWORD', 6, 'be'), 39) is 3

Contribution of (('KEYWORD', 7, 'the'), 48) is 6

Contribution of (('KEYWORD', 8, 'Los'), 64) is 22

Contribution of (('KEYWORD', 9, 'Angeles'), 65) is 23

So, score for (('PERSON', 1, ['Kyle', 'Harimoto']), 42) is 166

NE is (('PERSON', 2, ['Larry', 'Teng']), 46) posn is 46

Contribution of (('KEYWORD', 1, 'the'), 10) is 36

Contribution of (('KEYWORD', 2, 'be'), 15) is 31

Contribution of (('KEYWORD', 3, 'the'), 16) is 30

Contribution of (('KEYWORD', 4, 'the'), 20) is 26

Contribution of (('KEYWORD', 5, 'the'), 37) is 9

Contribution of (('KEYWORD', 6, 'be'), 39) is 7

Contribution of (('KEYWORD', 7, 'the'), 48) is 2

Contribution of (('KEYWORD', 8, 'Los'), 64) is 18

Contribution of (('KEYWORD', 9, 'Angeles'), 65) is 19

So, score for (('PERSON', 2, ['Larry', 'Teng']), 46) is 178

NE is (('PERSON', 3, ['Daniela', 'Ruah']), 55) posn is 55

Contribution of (('KEYWORD', 1, 'the'), 10) is 45

Contribution of (('KEYWORD', 2, 'be'), 15) is 40

Contribution of (('KEYWORD', 3, 'the'), 16) is 39

Contribution of (('KEYWORD', 4, 'the'), 20) is 35

Contribution of (('KEYWORD', 5, 'the'), 37) is 18

Contribution of (('KEYWORD', 6, 'be'), 39) is 16

Contribution of (('KEYWORD', 7, 'the'), 48) is 7

Contribution of (('KEYWORD', 8, 'Los'), 64) is 9

Contribution of (('KEYWORD', 9, 'Angeles'), 65) is 10

So, score for (('PERSON', 3, ['Daniela', 'Ruah']), 55) is 219

NE is (('PERSON', 4, ['Kensi', 'Blye']), 57) posn is 57

Contribution of (('KEYWORD', 1, 'the'), 10) is 47

Contribution of (('KEYWORD', 2, 'be'), 15) is 42

Contribution of (('KEYWORD', 3, 'the'), 16) is 41

Contribution of (('KEYWORD', 4, 'the'), 20) is 37

Contribution of (('KEYWORD', 5, 'the'), 37) is 20

Contribution of (('KEYWORD', 6, 'be'), 39) is 18

Contribution of (('KEYWORD', 7, 'the'), 48) is 9

Contribution of (('KEYWORD', 8, 'Los'), 64) is 7

Contribution of (('KEYWORD', 9, 'Angeles'), 65) is 8

So, score for (('PERSON', 4, ['Kensi', 'Blye']), 57) is 229

(Lower NE score means better match but zero score means no KEYWORDs in sentence.)

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original\_query:

which city is Hollowood located?

search\_tokens extracted:

['which', 'city', 'be', 'Hollowood', 'locate', '?']

query\_type\_json: unknown

query\_type\_spacy: PERSON

Elastic query submitted with search\_tokens\_string:

{'multi\_match': {'query': 'which city be Hollowood locate ?', 'fields': [], 'type': 'best\_fields'}}

result\_text\_list:

['The Design Research Unit (DRU) was one of the first generation of British design consultancies combining expertise in architecture, graphics and industrial design. It was founded by the managing director of Stuart Advertising Agency, Marcus Brumwell with Misha Black and Milner Gray in 1943. It became well known for its work in relation to the Festival of Britain in 1951 and its influential corporate identity project for British Rail in 1965. In 2004, DRU merged with Scott Brownrigg architects.']

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Looking at a para, searching for answers:

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Named Entities recognised and search\_tokens marked as KEYWORD:

['the', 'Design', 'Research', 'Unit', '(', 'DRU', ')', ('KEYWORD', 1, 'be'), 'one', 'of', 'the', 'first', 'generation', 'of', 'british', 'design', 'consultancy', 'combine', 'expertise', 'in', 'architecture', ',', 'graphic', 'and', 'industrial', 'design', '.', 'it', ('KEYWORD', 2, 'be'), 'found', 'by', 'the', 'manage', 'director', 'of', 'Stuart', 'Advertising', 'Agency', ',', 'Marcus', 'Brumwell', 'with', ('PERSON', 1, ['Misha', 'Black']), 'and', 'Milner', 'Gray', 'in', '1943', '.', 'it', 'become', 'well', 'known', 'for', 'its', 'work', 'in', 'relation', 'to', 'the', 'Festival', 'of', 'Britain', 'in', '1951', 'and', 'its', 'influential', 'corporate', 'identity', 'project', 'for', 'British', 'Rail', 'in', '1965', '.', 'in', '2004', ',', 'DRU', 'merge', 'with', ('PERSON', 2, ['Scott', 'Brownrigg']), 'architect', '.']

Named Entities listed with position of each (1st word is number 0):

[(('PERSON', 1, ['Misha', 'Black']), 42), (('PERSON', 2, ['Scott', 'Brownrigg']), 83)]

KEYWORDS listed with position of each:

[(('KEYWORD', 1, 'be'), 7), (('KEYWORD', 2, 'be'), 28)]

NE(s) in the sentence with contribution of each KEYWORD to NE score:

NE is (('PERSON', 1, ['Misha', 'Black']), 42) posn is 42

Contribution of (('KEYWORD', 1, 'be'), 7) is 35

Contribution of (('KEYWORD', 2, 'be'), 28) is 14

So, score for (('PERSON', 1, ['Misha', 'Black']), 42) is 49

NE is (('PERSON', 2, ['Scott', 'Brownrigg']), 83) posn is 83

Contribution of (('KEYWORD', 1, 'be'), 7) is 76

Contribution of (('KEYWORD', 2, 'be'), 28) is 55

So, score for (('PERSON', 2, ['Scott', 'Brownrigg']), 83) is 131

(Lower NE score means better match but zero score means no KEYWORDs in sentence.)

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original\_query:

Which city has the best beaches?

search\_tokens extracted:

['which', 'city', 'have', 'the', 'good', 'beach', '?']

query\_type\_json: unknown

query\_type\_spacy: PERSON

Elastic query submitted with search\_tokens\_string:

{'multi\_match': {'query': 'which city have the good beach ?', 'fields': [], 'type': 'best\_fields'}}

result\_text\_list:

["County Line Beach is beach park located in Solromar, an unincorporated community of Ventura County. This stretch of sandy beach is easily accessible from the adjacent Pacific Coast Highway. This popular surf spot is administered as part of Leo Carrillo State Park. The beach lies within the south coast portion of the Ventura County amidst a mostly rugged coastline that is some of the most striking and diverse coastal terrain in the County. The beach lies at the mouth of a canyon in the Santa Monica Mountains that hug the shore along the Ventura County's south coast."]

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Looking at a para, searching for answers:

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Named Entities recognised and search\_tokens marked as KEYWORD:

[('PERSON', 1, ['County', 'Line', 'Beach']), 'be', ('KEYWORD', 1, 'beach'), 'park', 'locate', 'in', 'Solromar', ',', 'an', 'unincorporated', 'community', 'of', 'Ventura', 'County', '.', 'this', 'stretch', 'of', 'sandy', ('KEYWORD', 2, 'beach'), 'be', 'easily', 'accessible', 'from', ('KEYWORD', 3, 'the'), 'adjacent', 'Pacific', 'Coast', 'Highway', '.', 'this', 'popular', 'surf', 'spot', 'be', 'administer', 'as', 'part', 'of', 'Leo', 'Carrillo', 'State', 'Park', '.', ('KEYWORD', 4, 'the'), ('KEYWORD', 5, 'beach'), 'lie', 'within', ('KEYWORD', 6, 'the'), 'south', 'coast', 'portion', 'of', ('KEYWORD', 7, 'the'), 'Ventura', 'County', 'amidst', 'a', 'mostly', 'rugged', 'coastline', 'that', 'be', 'some', 'of', ('KEYWORD', 8, 'the'), 'most', 'striking', 'and', 'diverse', 'coastal', 'terrain', 'in', ('KEYWORD', 9, 'the'), 'County', '.', ('KEYWORD', 10, 'the'), ('KEYWORD', 11, 'beach'), 'lie', 'at', ('KEYWORD', 12, 'the'), 'mouth', 'of', 'a', 'canyon', 'in', ('KEYWORD', 13, 'the'), 'Santa', 'Monica', 'Mountains', 'that', 'hug', ('KEYWORD', 14, 'the'), 'shore', 'along', ('KEYWORD', 15, 'the'), 'Ventura', 'County', "'s", 'south', 'coast', '.']

Named Entities listed with position of each (1st word is number 0):

[(('PERSON', 1, ['County', 'Line', 'Beach']), 0)]

KEYWORDS listed with position of each:

[(('KEYWORD', 1, 'beach'), 2), (('KEYWORD', 2, 'beach'), 19), (('KEYWORD', 3, 'the'), 24), (('KEYWORD', 4, 'the'), 44), (('KEYWORD', 5, 'beach'), 45), (('KEYWORD', 6, 'the'), 48), (('KEYWORD', 7, 'the'), 53), (('KEYWORD', 8, 'the'), 65), (('KEYWORD', 9, 'the'), 73), (('KEYWORD', 10, 'the'), 76), (('KEYWORD', 11, 'beach'), 77), (('KEYWORD', 12, 'the'), 80), (('KEYWORD', 13, 'the'), 86), (('KEYWORD', 14, 'the'), 92), (('KEYWORD', 15, 'the'), 95)]

NE(s) in the sentence with contribution of each KEYWORD to NE score:

NE is (('PERSON', 1, ['County', 'Line', 'Beach']), 0) posn is 0

Contribution of (('KEYWORD', 1, 'beach'), 2) is 2

Contribution of (('KEYWORD', 2, 'beach'), 19) is 19

Contribution of (('KEYWORD', 3, 'the'), 24) is 24

Contribution of (('KEYWORD', 4, 'the'), 44) is 44

Contribution of (('KEYWORD', 5, 'beach'), 45) is 45

Contribution of (('KEYWORD', 6, 'the'), 48) is 48

Contribution of (('KEYWORD', 7, 'the'), 53) is 53

Contribution of (('KEYWORD', 8, 'the'), 65) is 65

Contribution of (('KEYWORD', 9, 'the'), 73) is 73

Contribution of (('KEYWORD', 10, 'the'), 76) is 76

Contribution of (('KEYWORD', 11, 'beach'), 77) is 77

Contribution of (('KEYWORD', 12, 'the'), 80) is 80

Contribution of (('KEYWORD', 13, 'the'), 86) is 86

Contribution of (('KEYWORD', 14, 'the'), 92) is 92

Contribution of (('KEYWORD', 15, 'the'), 95) is 95

So, score for (('PERSON', 1, ['County', 'Line', 'Beach']), 0) is 879

(Lower NE score means better match but zero score means no KEYWORDs in sentence.)

--------------------------------------------------------------------------

original\_query:

which is the short eared dog?

search\_tokens extracted:

['which', 'be', 'the', 'short', 'eared', 'dog', '?']

query\_type\_json: unknown

query\_type\_spacy: PERSON

Elastic query submitted with search\_tokens\_string:

{'multi\_match': {'query': 'which be the short eared dog ?', 'fields': [], 'type': 'best\_fields'}}

result\_text\_list:

['The short-eared dog (Atelocynus microtis), also known as the short-eared zorro or small-eared dog, is a unique and elusive canid species endemic to the Amazonian basin. This is the only species assigned to the genus Atelocynus.']

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Looking at a para, searching for answers:

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Named Entities recognised and search\_tokens marked as KEYWORD:

[('KEYWORD', 1, 'the'), ('KEYWORD', 2, 'short'), '-', 'eare', ('KEYWORD', 3, 'dog'), '(', 'Atelocynus', 'microtis', ')', ',', 'also', 'know', 'as', ('KEYWORD', 4, 'the'), ('KEYWORD', 5, 'short'), '-', 'eare', 'zorro', 'or', 'small', '-', 'eare', ('KEYWORD', 6, 'dog'), ',', ('KEYWORD', 7, 'be'), 'a', 'unique', 'and', 'elusive', 'canid', 'specie', 'endemic', 'to', ('KEYWORD', 8, 'the'), 'amazonian', 'basin', '.', 'this', ('KEYWORD', 9, 'be'), ('KEYWORD', 10, 'the'), 'only', 'specie', 'assign', 'to', ('KEYWORD', 11, 'the'), 'genus', 'Atelocynus', '.']

Named Entities listed with position of each (1st word is number 0):

[]

KEYWORDS listed with position of each:

[(('KEYWORD', 1, 'the'), 0), (('KEYWORD', 2, 'short'), 1), (('KEYWORD', 3, 'dog'), 4), (('KEYWORD', 4, 'the'), 13), (('KEYWORD', 5, 'short'), 14), (('KEYWORD', 6, 'dog'), 22), (('KEYWORD', 7, 'be'), 24), (('KEYWORD', 8, 'the'), 33), (('KEYWORD', 9, 'be'), 38), (('KEYWORD', 10, 'the'), 39), (('KEYWORD', 11, 'the'), 44)]

NE(s) in the sentence with contribution of each KEYWORD to NE score:

(Lower NE score means better match but zero score means no KEYWORDs in sentence.)

--------------------------------------------------------------------------

original\_query:

In which city is the Crypto.com Arena located?

search\_tokens extracted:

['in', 'which', 'city', 'be', 'the', 'Crypto.com', 'Arena', 'locate', '?']

query\_type\_json: unknown

query\_type\_spacy: PERSON

Elastic query submitted with search\_tokens\_string:

{'multi\_match': {'query': 'in which city be the Crypto.com Arena locate ?', 'fields': [], 'type': 'best\_fields'}}

result\_text\_list:

['Crypto.com Arena is a multi-purpose indoor arena in Downtown Los Angeles. The main attraction of the L.A. Live development, it is located next to the Los Angeles Convention Center complex along Figueroa Street. The arena opened on October 17, 1999; it was previously known as Staples Center until December 2021 when Crypto.com acquired the naming rights. The arena is the flagship attraction of locally-based Anschutz Entertainment Group.']

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Looking at a para, searching for answers:

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Named Entities recognised and search\_tokens marked as KEYWORD:

[('KEYWORD', 1, 'Crypto.com'), ('KEYWORD', 2, 'Arena'), ('KEYWORD', 3, 'be'), 'a', 'multi', '-', 'purpose', 'indoor', 'arena', ('KEYWORD', 4, 'in'), 'Downtown', 'Los', 'Angeles', '.', ('KEYWORD', 5, 'the'), 'main', 'attraction', 'of', ('KEYWORD', 6, 'the'), 'L.A.', 'Live', 'development', ',', 'it', ('KEYWORD', 7, 'be'), ('KEYWORD', 8, 'locate'), 'next', 'to', ('KEYWORD', 9, 'the'), 'Los', 'Angeles', 'Convention', 'Center', 'complex', 'along', 'Figueroa', 'Street', '.', ('KEYWORD', 10, 'the'), 'arena', 'open', 'on', 'October', '17', ',', '1999', ';', 'it', ('KEYWORD', 11, 'be'), 'previously', 'know', 'as', ('PERSON', 1, ['Staples', 'Center']), 'until', 'December', '2021', 'when', ('KEYWORD', 12, 'Crypto.com'), 'acquire', ('KEYWORD', 13, 'the'), 'naming', 'right', '.', ('KEYWORD', 14, 'the'), 'arena', ('KEYWORD', 15, 'be'), ('KEYWORD', 16, 'the'), 'flagship', 'attraction', 'of', 'locally', '-', 'base', 'Anschutz', 'Entertainment', 'Group', '.']

Named Entities listed with position of each (1st word is number 0):

[(('PERSON', 1, ['Staples', 'Center']), 52)]

KEYWORDS listed with position of each:

[(('KEYWORD', 1, 'Crypto.com'), 0), (('KEYWORD', 2, 'Arena'), 1), (('KEYWORD', 3, 'be'), 2), (('KEYWORD', 4, 'in'), 9), (('KEYWORD', 5, 'the'), 14), (('KEYWORD', 6, 'the'), 18), (('KEYWORD', 7, 'be'), 24), (('KEYWORD', 8, 'locate'), 25), (('KEYWORD', 9, 'the'), 28), (('KEYWORD', 10, 'the'), 38), (('KEYWORD', 11, 'be'), 48), (('KEYWORD', 12, 'Crypto.com'), 57), (('KEYWORD', 13, 'the'), 59), (('KEYWORD', 14, 'the'), 63), (('KEYWORD', 15, 'be'), 65), (('KEYWORD', 16, 'the'), 66)]

NE(s) in the sentence with contribution of each KEYWORD to NE score:

NE is (('PERSON', 1, ['Staples', 'Center']), 52) posn is 52

Contribution of (('KEYWORD', 1, 'Crypto.com'), 0) is 52

Contribution of (('KEYWORD', 2, 'Arena'), 1) is 51

Contribution of (('KEYWORD', 3, 'be'), 2) is 50

Contribution of (('KEYWORD', 4, 'in'), 9) is 43

Contribution of (('KEYWORD', 5, 'the'), 14) is 38

Contribution of (('KEYWORD', 6, 'the'), 18) is 34

Contribution of (('KEYWORD', 7, 'be'), 24) is 28

Contribution of (('KEYWORD', 8, 'locate'), 25) is 27

Contribution of (('KEYWORD', 9, 'the'), 28) is 24

Contribution of (('KEYWORD', 10, 'the'), 38) is 14

Contribution of (('KEYWORD', 11, 'be'), 48) is 4

Contribution of (('KEYWORD', 12, 'Crypto.com'), 57) is 5

Contribution of (('KEYWORD', 13, 'the'), 59) is 7

Contribution of (('KEYWORD', 14, 'the'), 63) is 11

Contribution of (('KEYWORD', 15, 'be'), 65) is 13

Contribution of (('KEYWORD', 16, 'the'), 66) is 14

So, score for (('PERSON', 1, ['Staples', 'Center']), 52) is 415

(Lower NE score means better match but zero score means no KEYWORDs in sentence.)

--------------------------------------------------------------------------

original\_query:

which is the Japanese raccoon dog?

search\_tokens extracted:

['which', 'be', 'the', 'japanese', 'raccoon', 'dog', '?']

query\_type\_json: unknown

query\_type\_spacy: PERSON

Elastic query submitted with search\_tokens\_string:

{'multi\_match': {'query': 'which be the japanese raccoon dog ?', 'fields': [], 'type': 'best\_fields'}}

result\_text\_list:

['The Japanese raccoon dog (Nyctereutes viverrinus), is a species of canid endemic to Japan. It is one of two species in the genus Nyctereutes, alongside the common raccoon dog (N. procyonoides), of which it was traditionally thought to be a subspecies (Nyctereutes procyonoides viverrinus).']

=========================================

Looking at a para, searching for answers:

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Named Entities recognised and search\_tokens marked as KEYWORD:

[('KEYWORD', 1, 'the'), ('KEYWORD', 2, 'japanese'), ('KEYWORD', 3, 'raccoon'), ('KEYWORD', 4, 'dog'), '(', 'Nyctereutes', 'viverrinus', ')', ',', ('KEYWORD', 5, 'be'), 'a', 'species', 'of', 'canid', 'endemic', 'to', 'Japan', '.', 'it', ('KEYWORD', 6, 'be'), 'one', 'of', 'two', 'specie', 'in', ('KEYWORD', 7, 'the'), 'genus', 'Nyctereutes', ',', 'alongside', ('KEYWORD', 8, 'the'), 'common', ('KEYWORD', 9, 'raccoon'), ('KEYWORD', 10, 'dog'), '(', 'N.', 'procyonoide', ')', ',', 'of', ('KEYWORD', 11, 'which'), 'it', ('KEYWORD', 12, 'be'), 'traditionally', 'think', 'to', ('KEYWORD', 13, 'be'), 'a', 'subspecie', '(', 'Nyctereutes', 'procyonoide', 'viverrinus', ')', '.']

Named Entities listed with position of each (1st word is number 0):

[]

KEYWORDS listed with position of each:

[(('KEYWORD', 1, 'the'), 0), (('KEYWORD', 2, 'japanese'), 1), (('KEYWORD', 3, 'raccoon'), 2), (('KEYWORD', 4, 'dog'), 3), (('KEYWORD', 5, 'be'), 9), (('KEYWORD', 6, 'be'), 19), (('KEYWORD', 7, 'the'), 25), (('KEYWORD', 8, 'the'), 30), (('KEYWORD', 9, 'raccoon'), 32), (('KEYWORD', 10, 'dog'), 33), (('KEYWORD', 11, 'which'), 40), (('KEYWORD', 12, 'be'), 42), (('KEYWORD', 13, 'be'), 46)]

NE(s) in the sentence with contribution of each KEYWORD to NE score:

(Lower NE score means better match but zero score means no KEYWORDs in sentence.)

--------------------------------------------------------------------------

original\_query:

What are some dog species?

search\_tokens extracted:

['what', 'be', 'some', 'dog', 'specie', '?']

query\_type\_json: unknown

query\_type\_spacy: PERSON

Elastic query submitted with search\_tokens\_string:

{'multi\_match': {'query': 'what be some dog specie ?', 'fields': [], 'type': 'best\_fields'}}

result\_text\_list:

['Malala Andrialavidrazana (born 1971) is an artist and photographer from Madagascar, who lives in Paris. She has worked and exhibited internationally, and had two books of her photography published.']

=========================================

Looking at a para, searching for answers:

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Named Entities recognised and search\_tokens marked as KEYWORD:

[('PERSON', 1, ['Malala', 'Andrialavidrazana']), '(', 'bear', '1971', ')', ('KEYWORD', 1, 'be'), 'an', 'artist', 'and', 'photographer', 'from', 'Madagascar', ',', 'who', 'live', 'in', 'Paris', '.', 'she', 'have', 'work', 'and', 'exhibit', 'internationally', ',', 'and', 'have', 'two', 'book', 'of', 'her', 'photography', 'publish', '.']

Named Entities listed with position of each (1st word is number 0):

[(('PERSON', 1, ['Malala', 'Andrialavidrazana']), 0)]

KEYWORDS listed with position of each:

[(('KEYWORD', 1, 'be'), 5)]

NE(s) in the sentence with contribution of each KEYWORD to NE score:

NE is (('PERSON', 1, ['Malala', 'Andrialavidrazana']), 0) posn is 0

Contribution of (('KEYWORD', 1, 'be'), 5) is 5

So, score for (('PERSON', 1, ['Malala', 'Andrialavidrazana']), 0) is 5

(Lower NE score means better match but zero score means no KEYWORDs in sentence.)

=================== RESTART: M:\ir\aqu\_answer\_question\_v3.py ===================

Warning (from warnings module):

File "C:\Python3\lib\site-packages\transformers\utils\generic.py", line 441

\_torch\_pytree.\_register\_pytree\_node(

UserWarning: torch.utils.\_pytree.\_register\_pytree\_node is deprecated. Please use torch.utils.\_pytree.register\_pytree\_node instead.

Query: Who is the keyboardist in the band Dire Straits

Gold type: person

Returned type: person

CORRECT

Query: What is the capital of France

Gold type: location

Returned type: location

CORRECT

Accuracy: 100.0%

Number of queries in Gold Standard: 20

--------------------------------------------------------------------------

original\_query:

what is Beyoncé Knowles-Carter known for?

search\_tokens extracted:

['what', 'be', 'Beyoncé', 'Knowles', '-', 'Carter', 'know', 'for', '?']

query\_type\_json: unknown

query\_type\_spacy: PERSON

Elastic query submitted with search\_tokens\_string:

{'multi\_match': {'query': 'what be Beyoncé Knowles - Carter know for ?', 'fields': [], 'type': 'best\_fields'}}

result\_text\_list:

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Looking at a para, searching for answers:

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Named Entities recognised and search\_tokens marked as KEYWORD:

['"', ('PERSON', 1, ['Kitty', 'Kat']), '"', ('KEYWORD', 1, 'be'), 'a', 'song', 'by', 'american', 'singer', ('PERSON', 2, ['Beyoncé']), ('KEYWORD', 2, 'for'), 'her', 'second', 'studio', 'album', ',', ('PERSON', 3, ["B'Day"]), '(', '2006', ')', '.', 'it', ('KEYWORD', 3, 'be'), 'compose', 'by', ('KEYWORD', 4, 'Beyoncé'), ',', ('PERSON', 4, ['Pharrell', 'Williams']), ',', 'and', ('PERSON', 5, ['Shawn', 'Carter']), '.', '"', ('PERSON', 6, ['Kitty', 'Kat']), '"', ('KEYWORD', 5, 'be'), 'a', 'mid', ('KEYWORD', 6, '-'), 'tempo', 'electro', ',', 'hip', 'hop', 'soul', 'and', 'R&B', 'song', 'whose', 'lyric', 'detail', 'a', 'situation', 'where', 'a', 'woman', 'feel', 'that', 'her', 'man', 'have', 'underestimate', 'she', '.', 'the', 'song', ('KEYWORD', 7, 'be'), 'generally', 'well', 'receive', 'by', 'music', 'critic', 'who', 'note', 'it', 'to', ('KEYWORD', 8, 'be'), 'a', 'seductive', 'track', 'thank', 'to', 'its', '"', 'I', ('KEYWORD', 9, 'be'), 'not', 'feelin[g', ']', 'it', '"', 'vibe', '.', 'however', ',', 'some', 'music', 'critic', 'feel', 'that', 'the', 'production', 'do', 'not', 'live', 'up', 'to', 'those', 'of', 'other', 'song', 'feature', 'on', ('PERSON', 7, ["B'Day"]), '.']

Named Entities listed with position of each (1st word is number 0):

[(('PERSON', 1, ['Kitty', 'Kat']), 1), (('PERSON', 2, ['Beyoncé']), 9), (('PERSON', 3, ["B'Day"]), 16), (('PERSON', 4, ['Pharrell', 'Williams']), 27), (('PERSON', 5, ['Shawn', 'Carter']), 30), (('PERSON', 6, ['Kitty', 'Kat']), 33), (('PERSON', 7, ["B'Day"]), 114)]

KEYWORDS listed with position of each:

[(('KEYWORD', 1, 'be'), 3), (('KEYWORD', 2, 'for'), 10), (('KEYWORD', 3, 'be'), 22), (('KEYWORD', 4, 'Beyoncé'), 25), (('KEYWORD', 5, 'be'), 35), (('KEYWORD', 6, '-'), 38), (('KEYWORD', 7, 'be'), 66), (('KEYWORD', 8, 'be'), 77), (('KEYWORD', 9, 'be'), 86)]

NE(s) in the sentence with contribution of each KEYWORD to NE score:

NE is (('PERSON', 1, ['Kitty', 'Kat']), 1) posn is 1

Contribution of (('KEYWORD', 1, 'be'), 3) is 2

Contribution of (('KEYWORD', 2, 'for'), 10) is 9

Contribution of (('KEYWORD', 3, 'be'), 22) is 21

Contribution of (('KEYWORD', 4, 'Beyoncé'), 25) is 24

Contribution of (('KEYWORD', 5, 'be'), 35) is 34

Contribution of (('KEYWORD', 6, '-'), 38) is 37

Contribution of (('KEYWORD', 7, 'be'), 66) is 65

Contribution of (('KEYWORD', 8, 'be'), 77) is 76

Contribution of (('KEYWORD', 9, 'be'), 86) is 85

So, score for (('PERSON', 1, ['Kitty', 'Kat']), 1) is 353

NE is (('PERSON', 2, ['Beyoncé']), 9) posn is 9

Contribution of (('KEYWORD', 1, 'be'), 3) is 6

Contribution of (('KEYWORD', 2, 'for'), 10) is 1

Contribution of (('KEYWORD', 3, 'be'), 22) is 13

Contribution of (('KEYWORD', 4, 'Beyoncé'), 25) is 16

Contribution of (('KEYWORD', 5, 'be'), 35) is 26

Contribution of (('KEYWORD', 6, '-'), 38) is 29

Contribution of (('KEYWORD', 7, 'be'), 66) is 57

Contribution of (('KEYWORD', 8, 'be'), 77) is 68

Contribution of (('KEYWORD', 9, 'be'), 86) is 77

So, score for (('PERSON', 2, ['Beyoncé']), 9) is 293

NE is (('PERSON', 3, ["B'Day"]), 16) posn is 16

Contribution of (('KEYWORD', 1, 'be'), 3) is 13

Contribution of (('KEYWORD', 2, 'for'), 10) is 6

Contribution of (('KEYWORD', 3, 'be'), 22) is 6

Contribution of (('KEYWORD', 4, 'Beyoncé'), 25) is 9

Contribution of (('KEYWORD', 5, 'be'), 35) is 19

Contribution of (('KEYWORD', 6, '-'), 38) is 22

Contribution of (('KEYWORD', 7, 'be'), 66) is 50

Contribution of (('KEYWORD', 8, 'be'), 77) is 61

Contribution of (('KEYWORD', 9, 'be'), 86) is 70

So, score for (('PERSON', 3, ["B'Day"]), 16) is 256

NE is (('PERSON', 4, ['Pharrell', 'Williams']), 27) posn is 27

Contribution of (('KEYWORD', 1, 'be'), 3) is 24

Contribution of (('KEYWORD', 2, 'for'), 10) is 17

Contribution of (('KEYWORD', 3, 'be'), 22) is 5

Contribution of (('KEYWORD', 4, 'Beyoncé'), 25) is 2

Contribution of (('KEYWORD', 5, 'be'), 35) is 8

Contribution of (('KEYWORD', 6, '-'), 38) is 11

Contribution of (('KEYWORD', 7, 'be'), 66) is 39

Contribution of (('KEYWORD', 8, 'be'), 77) is 50

Contribution of (('KEYWORD', 9, 'be'), 86) is 59

So, score for (('PERSON', 4, ['Pharrell', 'Williams']), 27) is 215

NE is (('PERSON', 5, ['Shawn', 'Carter']), 30) posn is 30

Contribution of (('KEYWORD', 1, 'be'), 3) is 27

Contribution of (('KEYWORD', 2, 'for'), 10) is 20

Contribution of (('KEYWORD', 3, 'be'), 22) is 8

Contribution of (('KEYWORD', 4, 'Beyoncé'), 25) is 5

Contribution of (('KEYWORD', 5, 'be'), 35) is 5

Contribution of (('KEYWORD', 6, '-'), 38) is 8

Contribution of (('KEYWORD', 7, 'be'), 66) is 36

Contribution of (('KEYWORD', 8, 'be'), 77) is 47

Contribution of (('KEYWORD', 9, 'be'), 86) is 56

So, score for (('PERSON', 5, ['Shawn', 'Carter']), 30) is 212

NE is (('PERSON', 6, ['Kitty', 'Kat']), 33) posn is 33

Contribution of (('KEYWORD', 1, 'be'), 3) is 30

Contribution of (('KEYWORD', 2, 'for'), 10) is 23

Contribution of (('KEYWORD', 3, 'be'), 22) is 11

Contribution of (('KEYWORD', 4, 'Beyoncé'), 25) is 8

Contribution of (('KEYWORD', 5, 'be'), 35) is 2

Contribution of (('KEYWORD', 6, '-'), 38) is 5

Contribution of (('KEYWORD', 7, 'be'), 66) is 33

Contribution of (('KEYWORD', 8, 'be'), 77) is 44

Contribution of (('KEYWORD', 9, 'be'), 86) is 53

So, score for (('PERSON', 6, ['Kitty', 'Kat']), 33) is 209

NE is (('PERSON', 7, ["B'Day"]), 114) posn is 114

Contribution of (('KEYWORD', 1, 'be'), 3) is 111

Contribution of (('KEYWORD', 2, 'for'), 10) is 104

Contribution of (('KEYWORD', 3, 'be'), 22) is 92

Contribution of (('KEYWORD', 4, 'Beyoncé'), 25) is 89

Contribution of (('KEYWORD', 5, 'be'), 35) is 79

Contribution of (('KEYWORD', 6, '-'), 38) is 76

Contribution of (('KEYWORD', 7, 'be'), 66) is 48

Contribution of (('KEYWORD', 8, 'be'), 77) is 37

Contribution of (('KEYWORD', 9, 'be'), 86) is 28

So, score for (('PERSON', 7, ["B'Day"]), 114) is 664

(Lower NE score means better match but zero score means no KEYWORDs in sentence.)

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Looking at a para, searching for answers:

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Named Entities recognised and search\_tokens marked as KEYWORD:

['"', ('PERSON', 1, ['Kitty', 'Kat']), '"', ('KEYWORD', 1, 'be'), 'never', 'release', 'as', 'a', 'single', 'but', 'it', 'garner', 'airplay', 'on', 'R&B', 'radio', 'station', ',', 'thus', 'manage', 'to', 'chart', 'on', 'the', 'US', 'Hot', 'R&B', '/', 'Hip', ('KEYWORD', 2, '-'), 'Hop', 'Songs', 'chart', ',', 'where', 'it', 'reach', 'a', 'high', 'point', 'of', 'number', '66', 'in', 'May', '2007', '.', 'the', 'accompany', 'music', 'video', ('KEYWORD', 3, 'for'), 'the', 'song', ('KEYWORD', 4, 'be'), 'direct', 'by', 'Melina', 'Matsoukas', 'and', 'co', ('KEYWORD', 5, '-'), 'direct', 'by', ('KEYWORD', 6, 'Knowles'), ('KEYWORD', 7, 'for'), 'the', "B'Day", 'Anthology', 'Video', 'Album', '(', '2007', ')', '.', 'it', ('KEYWORD', 8, 'be'), 'only', 'one', ('KEYWORD', 9, '-'), 'minute', 'long', 'and', 'it', 'serve', 'as', 'the', 'introduction', 'of', 'the', 'music', 'video', ('KEYWORD', 10, 'for'), '"', 'Green', 'Light', '"', '(', '2007', ')', '.', 'the', 'video', ('KEYWORD', 11, 'for'), '"', ('PERSON', 2, ['Kitty', 'Kat']), '"', 'feature', ('KEYWORD', 12, 'Knowles'), 'show', 'cat', ('KEYWORD', 13, '-'), 'like', 'eye', 'with', 'leopard', 'print', 'make', ('KEYWORD', 14, '-'), 'up', 'and', 'fashion', 'on', '.', 'in', 'some', 'part', 'of', 'the', 'clip', ',', ('KEYWORD', 15, 'Knowles'), 'ride', 'on', 'an', 'oversized', 'black', 'cat', '.']

Named Entities listed with position of each (1st word is number 0):

[(('PERSON', 1, ['Kitty', 'Kat']), 1), (('PERSON', 2, ['Kitty', 'Kat']), 105)]

KEYWORDS listed with position of each:

[(('KEYWORD', 1, 'be'), 3), (('KEYWORD', 2, '-'), 29), (('KEYWORD', 3, 'for'), 51), (('KEYWORD', 4, 'be'), 54), (('KEYWORD', 5, '-'), 61), (('KEYWORD', 6, 'Knowles'), 64), (('KEYWORD', 7, 'for'), 65), (('KEYWORD', 8, 'be'), 76), (('KEYWORD', 9, '-'), 79), (('KEYWORD', 10, 'for'), 92), (('KEYWORD', 11, 'for'), 103), (('KEYWORD', 12, 'Knowles'), 108), (('KEYWORD', 13, '-'), 111), (('KEYWORD', 14, '-'), 118), (('KEYWORD', 15, 'Knowles'), 131)]

NE(s) in the sentence with contribution of each KEYWORD to NE score:

NE is (('PERSON', 1, ['Kitty', 'Kat']), 1) posn is 1

Contribution of (('KEYWORD', 1, 'be'), 3) is 2

Contribution of (('KEYWORD', 2, '-'), 29) is 28

Contribution of (('KEYWORD', 3, 'for'), 51) is 50

Contribution of (('KEYWORD', 4, 'be'), 54) is 53

Contribution of (('KEYWORD', 5, '-'), 61) is 60

Contribution of (('KEYWORD', 6, 'Knowles'), 64) is 63

Contribution of (('KEYWORD', 7, 'for'), 65) is 64

Contribution of (('KEYWORD', 8, 'be'), 76) is 75

Contribution of (('KEYWORD', 9, '-'), 79) is 78

Contribution of (('KEYWORD', 10, 'for'), 92) is 91

Contribution of (('KEYWORD', 11, 'for'), 103) is 102

Contribution of (('KEYWORD', 12, 'Knowles'), 108) is 107

Contribution of (('KEYWORD', 13, '-'), 111) is 110

Contribution of (('KEYWORD', 14, '-'), 118) is 117

Contribution of (('KEYWORD', 15, 'Knowles'), 131) is 130

So, score for (('PERSON', 1, ['Kitty', 'Kat']), 1) is 1130

NE is (('PERSON', 2, ['Kitty', 'Kat']), 105) posn is 105

Contribution of (('KEYWORD', 1, 'be'), 3) is 102

Contribution of (('KEYWORD', 2, '-'), 29) is 76

Contribution of (('KEYWORD', 3, 'for'), 51) is 54

Contribution of (('KEYWORD', 4, 'be'), 54) is 51

Contribution of (('KEYWORD', 5, '-'), 61) is 44

Contribution of (('KEYWORD', 6, 'Knowles'), 64) is 41

Contribution of (('KEYWORD', 7, 'for'), 65) is 40

Contribution of (('KEYWORD', 8, 'be'), 76) is 29

Contribution of (('KEYWORD', 9, '-'), 79) is 26

Contribution of (('KEYWORD', 10, 'for'), 92) is 13

Contribution of (('KEYWORD', 11, 'for'), 103) is 2

Contribution of (('KEYWORD', 12, 'Knowles'), 108) is 3

Contribution of (('KEYWORD', 13, '-'), 111) is 6

Contribution of (('KEYWORD', 14, '-'), 118) is 13

Contribution of (('KEYWORD', 15, 'Knowles'), 131) is 26

So, score for (('PERSON', 2, ['Kitty', 'Kat']), 105) is 526

(Lower NE score means better match but zero score means no KEYWORDs in sentence.)

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Looking at a para, searching for answers:

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Named Entities recognised and search\_tokens marked as KEYWORD:

['"', ('PERSON', 1, ['Kitty', 'Kat']), '"', ('KEYWORD', 1, 'be'), 'conceive', 'partly', 'at', 'the', 'Sony', 'Music', 'Studios', ',', 'in', 'New', 'York', 'City', 'and', 'the', 'Record', 'Plant', 'Studios', ',', 'in', 'Los', 'Angeles', '.', 'it', 'see', 'songwrite', 'duty', 'by', ('KEYWORD', 2, 'Knowles'), ',', ('PERSON', 2, ['Pharrell', 'Williams']), ',', 'as', 'well', 'as', ('PERSON', 3, ['Shawn', 'Carter']), ',', 'and', 'utilize', 'production', 'from', 'the', ('PERSON', 4, ['Neptunes']), ',', 'compromise', 'of', ('PERSON', 5, ['Williams']), 'and', ('PERSON', 6, ['Chad', 'Hugo']), '.', 'the', 'latter', 'also', 'produce', 'the', 'song', '"', 'Green', 'Light', '"', '(', '2006', ')', '.', ('PERSON', 7, ['Jason', 'Goldstein']), 'mix', '"', ('PERSON', 8, ['Kitty', 'Kat']), '"', 'with', 'assistance', 'from', ('PERSON', 9, ['Steve', 'Tolle']), '.', 'concern', 'the', 'song', ',', ('PERSON', 10, ['Knowles']), 'tell', 'MTV', ':', '"', '[', ('PERSON', 11, ['Kitty', 'Kat', ']']), ('KEYWORD', 3, 'be'), '[', 'a', ']', 'very', 'sexy', '[', 'song', ']', ',', 'talk', 'about', 'a', 'man', 'who', ('KEYWORD', 4, 'be'), 'out', 'with', 'friend', 'all', 'night', 'and', 'you', ('KEYWORD', 5, 'be'), 'leave', 'at', 'home', '.', 'and', 'you', ('KEYWORD', 6, 'be'), 'like', ',', "'", 'no', 'more', 'of', 'this', '.', 'it', ('KEYWORD', 7, 'be'), 'time', 'to', 'go', '.', "'", '"', 'the', 'song', 'appear', 'online', 'through', 'the', 'website', 'of', 'Rap', ('KEYWORD', 8, '-'), 'up', 'magazine', 'on', 'August', '23', ',', '2006', ',', 'prior', 'to', 'the', 'release', 'of', "B'Day", '.']

Named Entities listed with position of each (1st word is number 0):

[(('PERSON', 1, ['Kitty', 'Kat']), 1), (('PERSON', 2, ['Pharrell', 'Williams']), 33), (('PERSON', 3, ['Shawn', 'Carter']), 38), (('PERSON', 4, ['Neptunes']), 45), (('PERSON', 5, ['Williams']), 49), (('PERSON', 6, ['Chad', 'Hugo']), 51), (('PERSON', 7, ['Jason', 'Goldstein']), 67), (('PERSON', 8, ['Kitty', 'Kat']), 70), (('PERSON', 9, ['Steve', 'Tolle']), 75), (('PERSON', 10, ['Knowles']), 81), (('PERSON', 11, ['Kitty', 'Kat', ']']), 87)]

KEYWORDS listed with position of each:

[(('KEYWORD', 1, 'be'), 3), (('KEYWORD', 2, 'Knowles'), 31), (('KEYWORD', 3, 'be'), 88), (('KEYWORD', 4, 'be'), 103), (('KEYWORD', 5, 'be'), 111), (('KEYWORD', 6, 'be'), 118), (('KEYWORD', 7, 'be'), 128), (('KEYWORD', 8, '-'), 144)]

NE(s) in the sentence with contribution of each KEYWORD to NE score:

NE is (('PERSON', 1, ['Kitty', 'Kat']), 1) posn is 1

Contribution of (('KEYWORD', 1, 'be'), 3) is 2

Contribution of (('KEYWORD', 2, 'Knowles'), 31) is 30

Contribution of (('KEYWORD', 3, 'be'), 88) is 87

Contribution of (('KEYWORD', 4, 'be'), 103) is 102

Contribution of (('KEYWORD', 5, 'be'), 111) is 110

Contribution of (('KEYWORD', 6, 'be'), 118) is 117

Contribution of (('KEYWORD', 7, 'be'), 128) is 127

Contribution of (('KEYWORD', 8, '-'), 144) is 143

So, score for (('PERSON', 1, ['Kitty', 'Kat']), 1) is 718

NE is (('PERSON', 2, ['Pharrell', 'Williams']), 33) posn is 33

Contribution of (('KEYWORD', 1, 'be'), 3) is 30

Contribution of (('KEYWORD', 2, 'Knowles'), 31) is 2

Contribution of (('KEYWORD', 3, 'be'), 88) is 55

Contribution of (('KEYWORD', 4, 'be'), 103) is 70

Contribution of (('KEYWORD', 5, 'be'), 111) is 78

Contribution of (('KEYWORD', 6, 'be'), 118) is 85

Contribution of (('KEYWORD', 7, 'be'), 128) is 95

Contribution of (('KEYWORD', 8, '-'), 144) is 111

So, score for (('PERSON', 2, ['Pharrell', 'Williams']), 33) is 526

NE is (('PERSON', 3, ['Shawn', 'Carter']), 38) posn is 38

Contribution of (('KEYWORD', 1, 'be'), 3) is 35

Contribution of (('KEYWORD', 2, 'Knowles'), 31) is 7

Contribution of (('KEYWORD', 3, 'be'), 88) is 50

Contribution of (('KEYWORD', 4, 'be'), 103) is 65

Contribution of (('KEYWORD', 5, 'be'), 111) is 73

Contribution of (('KEYWORD', 6, 'be'), 118) is 80

Contribution of (('KEYWORD', 7, 'be'), 128) is 90

Contribution of (('KEYWORD', 8, '-'), 144) is 106

So, score for (('PERSON', 3, ['Shawn', 'Carter']), 38) is 506

NE is (('PERSON', 4, ['Neptunes']), 45) posn is 45

Contribution of (('KEYWORD', 1, 'be'), 3) is 42

Contribution of (('KEYWORD', 2, 'Knowles'), 31) is 14

Contribution of (('KEYWORD', 3, 'be'), 88) is 43

Contribution of (('KEYWORD', 4, 'be'), 103) is 58

Contribution of (('KEYWORD', 5, 'be'), 111) is 66

Contribution of (('KEYWORD', 6, 'be'), 118) is 73

Contribution of (('KEYWORD', 7, 'be'), 128) is 83

Contribution of (('KEYWORD', 8, '-'), 144) is 99

So, score for (('PERSON', 4, ['Neptunes']), 45) is 478

NE is (('PERSON', 5, ['Williams']), 49) posn is 49

Contribution of (('KEYWORD', 1, 'be'), 3) is 46

Contribution of (('KEYWORD', 2, 'Knowles'), 31) is 18

Contribution of (('KEYWORD', 3, 'be'), 88) is 39

Contribution of (('KEYWORD', 4, 'be'), 103) is 54

Contribution of (('KEYWORD', 5, 'be'), 111) is 62

Contribution of (('KEYWORD', 6, 'be'), 118) is 69

Contribution of (('KEYWORD', 7, 'be'), 128) is 79

Contribution of (('KEYWORD', 8, '-'), 144) is 95

So, score for (('PERSON', 5, ['Williams']), 49) is 462

NE is (('PERSON', 6, ['Chad', 'Hugo']), 51) posn is 51

Contribution of (('KEYWORD', 1, 'be'), 3) is 48

Contribution of (('KEYWORD', 2, 'Knowles'), 31) is 20

Contribution of (('KEYWORD', 3, 'be'), 88) is 37

Contribution of (('KEYWORD', 4, 'be'), 103) is 52

Contribution of (('KEYWORD', 5, 'be'), 111) is 60

Contribution of (('KEYWORD', 6, 'be'), 118) is 67

Contribution of (('KEYWORD', 7, 'be'), 128) is 77

Contribution of (('KEYWORD', 8, '-'), 144) is 93

So, score for (('PERSON', 6, ['Chad', 'Hugo']), 51) is 454

NE is (('PERSON', 7, ['Jason', 'Goldstein']), 67) posn is 67

Contribution of (('KEYWORD', 1, 'be'), 3) is 64

Contribution of (('KEYWORD', 2, 'Knowles'), 31) is 36

Contribution of (('KEYWORD', 3, 'be'), 88) is 21

Contribution of (('KEYWORD', 4, 'be'), 103) is 36

Contribution of (('KEYWORD', 5, 'be'), 111) is 44

Contribution of (('KEYWORD', 6, 'be'), 118) is 51

Contribution of (('KEYWORD', 7, 'be'), 128) is 61

Contribution of (('KEYWORD', 8, '-'), 144) is 77

So, score for (('PERSON', 7, ['Jason', 'Goldstein']), 67) is 390

NE is (('PERSON', 8, ['Kitty', 'Kat']), 70) posn is 70

Contribution of (('KEYWORD', 1, 'be'), 3) is 67

Contribution of (('KEYWORD', 2, 'Knowles'), 31) is 39

Contribution of (('KEYWORD', 3, 'be'), 88) is 18

Contribution of (('KEYWORD', 4, 'be'), 103) is 33

Contribution of (('KEYWORD', 5, 'be'), 111) is 41

Contribution of (('KEYWORD', 6, 'be'), 118) is 48

Contribution of (('KEYWORD', 7, 'be'), 128) is 58

Contribution of (('KEYWORD', 8, '-'), 144) is 74

So, score for (('PERSON', 8, ['Kitty', 'Kat']), 70) is 378

NE is (('PERSON', 9, ['Steve', 'Tolle']), 75) posn is 75

Contribution of (('KEYWORD', 1, 'be'), 3) is 72

Contribution of (('KEYWORD', 2, 'Knowles'), 31) is 44

Contribution of (('KEYWORD', 3, 'be'), 88) is 13

Contribution of (('KEYWORD', 4, 'be'), 103) is 28

Contribution of (('KEYWORD', 5, 'be'), 111) is 36

Contribution of (('KEYWORD', 6, 'be'), 118) is 43

Contribution of (('KEYWORD', 7, 'be'), 128) is 53

Contribution of (('KEYWORD', 8, '-'), 144) is 69

So, score for (('PERSON', 9, ['Steve', 'Tolle']), 75) is 358

NE is (('PERSON', 10, ['Knowles']), 81) posn is 81

Contribution of (('KEYWORD', 1, 'be'), 3) is 78

Contribution of (('KEYWORD', 2, 'Knowles'), 31) is 50

Contribution of (('KEYWORD', 3, 'be'), 88) is 7

Contribution of (('KEYWORD', 4, 'be'), 103) is 22

Contribution of (('KEYWORD', 5, 'be'), 111) is 30

Contribution of (('KEYWORD', 6, 'be'), 118) is 37

Contribution of (('KEYWORD', 7, 'be'), 128) is 47

Contribution of (('KEYWORD', 8, '-'), 144) is 63

So, score for (('PERSON', 10, ['Knowles']), 81) is 334

NE is (('PERSON', 11, ['Kitty', 'Kat', ']']), 87) posn is 87

Contribution of (('KEYWORD', 1, 'be'), 3) is 84

Contribution of (('KEYWORD', 2, 'Knowles'), 31) is 56

Contribution of (('KEYWORD', 3, 'be'), 88) is 1

Contribution of (('KEYWORD', 4, 'be'), 103) is 16

Contribution of (('KEYWORD', 5, 'be'), 111) is 24

Contribution of (('KEYWORD', 6, 'be'), 118) is 31

Contribution of (('KEYWORD', 7, 'be'), 128) is 41

Contribution of (('KEYWORD', 8, '-'), 144) is 57

So, score for (('PERSON', 11, ['Kitty', 'Kat', ']']), 87) is 310

(Lower NE score means better match but zero score means no KEYWORDs in sentence.)

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Looking at a para, searching for answers:

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Named Entities recognised and search\_tokens marked as KEYWORD:

['"', 'flaw', 'and', 'all', '"', ('KEYWORD', 1, 'be'), 'a', 'song', 'record', 'by', 'american', 'singer', ('PERSON', 1, ['Beyoncé']), 'from', 'the', 'deluxe', 'edition', 'of', 'her', 'second', 'studio', 'album', ',', ('PERSON', 2, ["B'Day"]), '(', '2006', ')', '.', 'it', ('KEYWORD', 2, 'be'), 'compose', 'by', 'Ne', ('KEYWORD', 3, '-'), 'Yo', ',', ('PERSON', 3, ['Shea', 'Taylor']), ',', ('KEYWORD', 4, 'Beyoncé'), 'and', 'Solange', ('KEYWORD', 5, 'Knowles'), ',', 'while', ('KEYWORD', 6, 'Beyoncé'), ('KEYWORD', 7, 'Knowles'), 'and', ('PERSON', 4, ['Taylor']), 'produce', 'it', '.', 'in', 'the', 'R&B', 'song', ',', ('KEYWORD', 8, 'Beyoncé'), 'show', 'appreciation', ('KEYWORD', 9, 'for'), 'the', 'love', 'give', 'by', 'her', 'man', ',', 'who', 'see', 'through', 'all', 'of', 'her', 'flaw', 'and', 'love', 'she', 'unconditionally', '.', '"', 'flaw', 'and', 'all', '"', 'receive', 'positive', 'review', 'from', 'critic', ',', 'who', 'laud', ('KEYWORD', 10, 'Beyoncé'), "'s", 'emotion', 'and', 'vulnerability', 'on', 'the', 'track', '.', 'some', 'critic', 'also', 'note', 'that', 'the', 'song', ('KEYWORD', 11, 'be'), 'well', 'than', 'some', 'of', 'the', 'song', 'on', 'the', 'standard', 'edition', 'of', ('PERSON', 5, ["B'Day"]), '.']

Named Entities listed with position of each (1st word is number 0):

[(('PERSON', 1, ['Beyoncé']), 12), (('PERSON', 2, ["B'Day"]), 23), (('PERSON', 3, ['Shea', 'Taylor']), 36), (('PERSON', 4, ['Taylor']), 47), (('PERSON', 5, ["B'Day"]), 120)]

KEYWORDS listed with position of each:

[(('KEYWORD', 1, 'be'), 5), (('KEYWORD', 2, 'be'), 29), (('KEYWORD', 3, '-'), 33), (('KEYWORD', 4, 'Beyoncé'), 38), (('KEYWORD', 5, 'Knowles'), 41), (('KEYWORD', 6, 'Beyoncé'), 44), (('KEYWORD', 7, 'Knowles'), 45), (('KEYWORD', 8, 'Beyoncé'), 56), (('KEYWORD', 9, 'for'), 59), (('KEYWORD', 10, 'Beyoncé'), 92), (('KEYWORD', 11, 'be'), 108)]

NE(s) in the sentence with contribution of each KEYWORD to NE score:

NE is (('PERSON', 1, ['Beyoncé']), 12) posn is 12

Contribution of (('KEYWORD', 1, 'be'), 5) is 7

Contribution of (('KEYWORD', 2, 'be'), 29) is 17

Contribution of (('KEYWORD', 3, '-'), 33) is 21

Contribution of (('KEYWORD', 4, 'Beyoncé'), 38) is 26

Contribution of (('KEYWORD', 5, 'Knowles'), 41) is 29

Contribution of (('KEYWORD', 6, 'Beyoncé'), 44) is 32

Contribution of (('KEYWORD', 7, 'Knowles'), 45) is 33

Contribution of (('KEYWORD', 8, 'Beyoncé'), 56) is 44

Contribution of (('KEYWORD', 9, 'for'), 59) is 47

Contribution of (('KEYWORD', 10, 'Beyoncé'), 92) is 80

Contribution of (('KEYWORD', 11, 'be'), 108) is 96

So, score for (('PERSON', 1, ['Beyoncé']), 12) is 432

NE is (('PERSON', 2, ["B'Day"]), 23) posn is 23

Contribution of (('KEYWORD', 1, 'be'), 5) is 18

Contribution of (('KEYWORD', 2, 'be'), 29) is 6

Contribution of (('KEYWORD', 3, '-'), 33) is 10

Contribution of (('KEYWORD', 4, 'Beyoncé'), 38) is 15

Contribution of (('KEYWORD', 5, 'Knowles'), 41) is 18

Contribution of (('KEYWORD', 6, 'Beyoncé'), 44) is 21

Contribution of (('KEYWORD', 7, 'Knowles'), 45) is 22

Contribution of (('KEYWORD', 8, 'Beyoncé'), 56) is 33

Contribution of (('KEYWORD', 9, 'for'), 59) is 36

Contribution of (('KEYWORD', 10, 'Beyoncé'), 92) is 69

Contribution of (('KEYWORD', 11, 'be'), 108) is 85

So, score for (('PERSON', 2, ["B'Day"]), 23) is 333

NE is (('PERSON', 3, ['Shea', 'Taylor']), 36) posn is 36

Contribution of (('KEYWORD', 1, 'be'), 5) is 31

Contribution of (('KEYWORD', 2, 'be'), 29) is 7

Contribution of (('KEYWORD', 3, '-'), 33) is 3

Contribution of (('KEYWORD', 4, 'Beyoncé'), 38) is 2

Contribution of (('KEYWORD', 5, 'Knowles'), 41) is 5

Contribution of (('KEYWORD', 6, 'Beyoncé'), 44) is 8

Contribution of (('KEYWORD', 7, 'Knowles'), 45) is 9

Contribution of (('KEYWORD', 8, 'Beyoncé'), 56) is 20

Contribution of (('KEYWORD', 9, 'for'), 59) is 23

Contribution of (('KEYWORD', 10, 'Beyoncé'), 92) is 56

Contribution of (('KEYWORD', 11, 'be'), 108) is 72

So, score for (('PERSON', 3, ['Shea', 'Taylor']), 36) is 236

NE is (('PERSON', 4, ['Taylor']), 47) posn is 47

Contribution of (('KEYWORD', 1, 'be'), 5) is 42

Contribution of (('KEYWORD', 2, 'be'), 29) is 18

Contribution of (('KEYWORD', 3, '-'), 33) is 14

Contribution of (('KEYWORD', 4, 'Beyoncé'), 38) is 9

Contribution of (('KEYWORD', 5, 'Knowles'), 41) is 6

Contribution of (('KEYWORD', 6, 'Beyoncé'), 44) is 3

Contribution of (('KEYWORD', 7, 'Knowles'), 45) is 2

Contribution of (('KEYWORD', 8, 'Beyoncé'), 56) is 9

Contribution of (('KEYWORD', 9, 'for'), 59) is 12

Contribution of (('KEYWORD', 10, 'Beyoncé'), 92) is 45

Contribution of (('KEYWORD', 11, 'be'), 108) is 61

So, score for (('PERSON', 4, ['Taylor']), 47) is 221

NE is (('PERSON', 5, ["B'Day"]), 120) posn is 120

Contribution of (('KEYWORD', 1, 'be'), 5) is 115

Contribution of (('KEYWORD', 2, 'be'), 29) is 91

Contribution of (('KEYWORD', 3, '-'), 33) is 87

Contribution of (('KEYWORD', 4, 'Beyoncé'), 38) is 82

Contribution of (('KEYWORD', 5, 'Knowles'), 41) is 79

Contribution of (('KEYWORD', 6, 'Beyoncé'), 44) is 76

Contribution of (('KEYWORD', 7, 'Knowles'), 45) is 75

Contribution of (('KEYWORD', 8, 'Beyoncé'), 56) is 64

Contribution of (('KEYWORD', 9, 'for'), 59) is 61

Contribution of (('KEYWORD', 10, 'Beyoncé'), 92) is 28

Contribution of (('KEYWORD', 11, 'be'), 108) is 12

So, score for (('PERSON', 5, ["B'Day"]), 120) is 770

(Lower NE score means better match but zero score means no KEYWORDs in sentence.)

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Looking at a para, searching for answers:

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Named Entities recognised and search\_tokens marked as KEYWORD:

['the', 'music', 'video', ('KEYWORD', 1, 'be'), 'direct', 'by', 'Cliff', 'Watts', 'and', ('KEYWORD', 2, 'Beyoncé'), ('KEYWORD', 3, 'for'), "B'Day", 'Anthology', 'Video', 'Album', '(', '2007', ')', '.', 'it', 'feature', 'clip', 'of', 'a', "B'Day", 'promotional', 'ad', 'by', 'Wal', ('KEYWORD', 4, '-'), 'Mart', 'piece', 'together', ',', 'in', 'which', ('KEYWORD', 5, 'Beyoncé'), 'do', 'not', 'lip', ('KEYWORD', 6, '-'), 'sync', 'the', 'word', 'of', 'the', 'song', ',', 'but', 'instead', 'act', 'as', 'if', 'it', ('KEYWORD', 7, 'be'), 'an', 'everyday', 'scenario', '.', ('KEYWORD', 8, 'Beyoncé'), 'explain', 'the', 'concept', ('KEYWORD', 9, 'for'), 'the', 'video', ('KEYWORD', 10, 'be'), 'to', 'show', 'a', 'different', 'side', 'to', 'she', ',', 'that', 'the', 'paparazzi', 'do', 'not', 'show', 'and', 'that', 'fan', 'would', 'not', 'normally', 'see', '.', ('PERSON', 1, ['Beyoncé']), 'perform', '"', 'flaw', 'and', 'all', '"', 'on', 'the', ('KEYWORD', 11, 'Beyoncé'), 'Experience', '(', '2007', ')', ',', 'and', ('KEYWORD', 12, 'be'), 'also', 'sing', 'by', 'she', 'on', 'the', 'Ellen', 'DeGeneres', 'Show', ',', 'revel', 'present', ':', ('KEYWORD', 13, 'Beyoncé'), 'Live', '(', '2012', ')', ',', 'and', 'Renaissance', 'World', 'Tour', '(', '2023', ')', '.']

Named Entities listed with position of each (1st word is number 0):

[(('PERSON', 1, ['Beyoncé']), 89)]

KEYWORDS listed with position of each:

[(('KEYWORD', 1, 'be'), 3), (('KEYWORD', 2, 'Beyoncé'), 9), (('KEYWORD', 3, 'for'), 10), (('KEYWORD', 4, '-'), 29), (('KEYWORD', 5, 'Beyoncé'), 36), (('KEYWORD', 6, '-'), 40), (('KEYWORD', 7, 'be'), 54), (('KEYWORD', 8, 'Beyoncé'), 59), (('KEYWORD', 9, 'for'), 63), (('KEYWORD', 10, 'be'), 66), (('KEYWORD', 11, 'Beyoncé'), 98), (('KEYWORD', 12, 'be'), 105), (('KEYWORD', 13, 'Beyoncé'), 119)]

NE(s) in the sentence with contribution of each KEYWORD to NE score:

NE is (('PERSON', 1, ['Beyoncé']), 89) posn is 89

Contribution of (('KEYWORD', 1, 'be'), 3) is 86

Contribution of (('KEYWORD', 2, 'Beyoncé'), 9) is 80

Contribution of (('KEYWORD', 3, 'for'), 10) is 79

Contribution of (('KEYWORD', 4, '-'), 29) is 60

Contribution of (('KEYWORD', 5, 'Beyoncé'), 36) is 53

Contribution of (('KEYWORD', 6, '-'), 40) is 49

Contribution of (('KEYWORD', 7, 'be'), 54) is 35

Contribution of (('KEYWORD', 8, 'Beyoncé'), 59) is 30

Contribution of (('KEYWORD', 9, 'for'), 63) is 26

Contribution of (('KEYWORD', 10, 'be'), 66) is 23

Contribution of (('KEYWORD', 11, 'Beyoncé'), 98) is 9

Contribution of (('KEYWORD', 12, 'be'), 105) is 16

Contribution of (('KEYWORD', 13, 'Beyoncé'), 119) is 30

So, score for (('PERSON', 1, ['Beyoncé']), 89) is 576

(Lower NE score means better match but zero score means no KEYWORDs in sentence.)

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Looking at a para, searching for answers:

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Named Entities recognised and search\_tokens marked as KEYWORD:

['"', 'flaw', 'and', 'all', '"', ('KEYWORD', 1, 'be'), 'write', 'by', 'Ne', ('KEYWORD', 2, '-'), 'Yo', ',', ('PERSON', 1, ['Shea', 'Taylor']), ',', ('PERSON', 2, ['Beyoncé', 'Knowles']), 'and', 'her', 'sister', ('PERSON', 3, ['Solange', 'Knowles']), '.', 'the', 'R&B', 'song', ('KEYWORD', 3, 'be'), 'produce', 'by', ('KEYWORD', 4, 'Beyoncé'), ('KEYWORD', 5, 'Knowles'), 'and', ('PERSON', 4, ['Taylor']), ',', 'and', 'mix', 'by', ('PERSON', 5, ['Jean', '-', 'Marie', 'Horvat']), 'at', 'Oz', 'Recording', 'Studios', ',', ('PERSON', 6, ['Valencia']), ',', 'California', '.', '"', 'flaw', 'and', 'all', '"', ('KEYWORD', 6, 'be'), 'record', 'by', ('PERSON', 7, ['Jim', 'Caruana']), ',', ('PERSON', 8, ['Shane', 'Woodley']), 'and', ('PERSON', 9, ['Robert', '"', 'LB', '"']), 'Dorsey', 'at', 'Roc', 'the', 'Mic', 'studio', ',', 'New', 'York', 'City', '.', 'although', 'the', 'song', ('KEYWORD', 7, 'be'), 'originally', 'include', 'on', 'the', 're', ('KEYWORD', 8, '-'), 'release', 'of', "B'Day", ',', 'it', ('KEYWORD', 9, 'be'), 'additionally', 'include', 'on', 'compilation', 'album', '.', 'in', '2007', 'the', 'song', ('KEYWORD', 10, 'be'), 'include', 'on', ('PERSON', 10, ['Tyler', 'Perry', "'s"]), 'why', 'do', 'I', 'get', 'married', ('KEYWORD', 11, '?'), 'soundtrack', '.', 'in', '2008', ',', ('KEYWORD', 12, 'Beyoncé'), 'release', 'the', 'song', 'on', 'a', 'compilation', 'album', 'dedicate', 'to', 'karaoke', 'performance', 'title', ('PERSON', 11, ['Beyoncé', 'Karaoke', 'Hits']), ',', ('PERSON', 12, ['Vol']), '.', 'I.', 'Author', 'Latrice', 'Gleen', 'reference', 'the', 'song', 'in', 'a', 'memoir', 'title', 'my', 'life', "'s", ('PERSON', 13, ['Journey']), '(', '2010', ')', '.']

Named Entities listed with position of each (1st word is number 0):

[(('PERSON', 1, ['Shea', 'Taylor']), 12), (('PERSON', 2, ['Beyoncé', 'Knowles']), 14), (('PERSON', 3, ['Solange', 'Knowles']), 18), (('PERSON', 4, ['Taylor']), 29), (('PERSON', 5, ['Jean', '-', 'Marie', 'Horvat']), 34), (('PERSON', 6, ['Valencia']), 40), (('PERSON', 7, ['Jim', 'Caruana']), 52), (('PERSON', 8, ['Shane', 'Woodley']), 54), (('PERSON', 9, ['Robert', '"', 'LB', '"']), 56), (('PERSON', 10, ['Tyler', 'Perry', "'s"]), 97), (('PERSON', 11, ['Beyoncé', 'Karaoke', 'Hits']), 122), (('PERSON', 12, ['Vol']), 124), (('PERSON', 13, ['Journey']), 140)]

KEYWORDS listed with position of each:

[(('KEYWORD', 1, 'be'), 5), (('KEYWORD', 2, '-'), 9), (('KEYWORD', 3, 'be'), 23), (('KEYWORD', 4, 'Beyoncé'), 26), (('KEYWORD', 5, 'Knowles'), 27), (('KEYWORD', 6, 'be'), 49), (('KEYWORD', 7, 'be'), 71), (('KEYWORD', 8, '-'), 77), (('KEYWORD', 9, 'be'), 83), (('KEYWORD', 10, 'be'), 94), (('KEYWORD', 11, '?'), 103), (('KEYWORD', 12, 'Beyoncé'), 109)]

NE(s) in the sentence with contribution of each KEYWORD to NE score:

NE is (('PERSON', 1, ['Shea', 'Taylor']), 12) posn is 12

Contribution of (('KEYWORD', 1, 'be'), 5) is 7

Contribution of (('KEYWORD', 2, '-'), 9) is 3

Contribution of (('KEYWORD', 3, 'be'), 23) is 11

Contribution of (('KEYWORD', 4, 'Beyoncé'), 26) is 14

Contribution of (('KEYWORD', 5, 'Knowles'), 27) is 15

Contribution of (('KEYWORD', 6, 'be'), 49) is 37

Contribution of (('KEYWORD', 7, 'be'), 71) is 59

Contribution of (('KEYWORD', 8, '-'), 77) is 65

Contribution of (('KEYWORD', 9, 'be'), 83) is 71

Contribution of (('KEYWORD', 10, 'be'), 94) is 82

Contribution of (('KEYWORD', 11, '?'), 103) is 91

Contribution of (('KEYWORD', 12, 'Beyoncé'), 109) is 97

So, score for (('PERSON', 1, ['Shea', 'Taylor']), 12) is 552

NE is (('PERSON', 2, ['Beyoncé', 'Knowles']), 14) posn is 14

Contribution of (('KEYWORD', 1, 'be'), 5) is 9

Contribution of (('KEYWORD', 2, '-'), 9) is 5

Contribution of (('KEYWORD', 3, 'be'), 23) is 9

Contribution of (('KEYWORD', 4, 'Beyoncé'), 26) is 12

Contribution of (('KEYWORD', 5, 'Knowles'), 27) is 13

Contribution of (('KEYWORD', 6, 'be'), 49) is 35

Contribution of (('KEYWORD', 7, 'be'), 71) is 57

Contribution of (('KEYWORD', 8, '-'), 77) is 63

Contribution of (('KEYWORD', 9, 'be'), 83) is 69

Contribution of (('KEYWORD', 10, 'be'), 94) is 80

Contribution of (('KEYWORD', 11, '?'), 103) is 89

Contribution of (('KEYWORD', 12, 'Beyoncé'), 109) is 95

So, score for (('PERSON', 2, ['Beyoncé', 'Knowles']), 14) is 536

NE is (('PERSON', 3, ['Solange', 'Knowles']), 18) posn is 18

Contribution of (('KEYWORD', 1, 'be'), 5) is 13

Contribution of (('KEYWORD', 2, '-'), 9) is 9

Contribution of (('KEYWORD', 3, 'be'), 23) is 5

Contribution of (('KEYWORD', 4, 'Beyoncé'), 26) is 8

Contribution of (('KEYWORD', 5, 'Knowles'), 27) is 9

Contribution of (('KEYWORD', 6, 'be'), 49) is 31

Contribution of (('KEYWORD', 7, 'be'), 71) is 53

Contribution of (('KEYWORD', 8, '-'), 77) is 59

Contribution of (('KEYWORD', 9, 'be'), 83) is 65

Contribution of (('KEYWORD', 10, 'be'), 94) is 76

Contribution of (('KEYWORD', 11, '?'), 103) is 85

Contribution of (('KEYWORD', 12, 'Beyoncé'), 109) is 91

So, score for (('PERSON', 3, ['Solange', 'Knowles']), 18) is 504

NE is (('PERSON', 4, ['Taylor']), 29) posn is 29

Contribution of (('KEYWORD', 1, 'be'), 5) is 24

Contribution of (('KEYWORD', 2, '-'), 9) is 20

Contribution of (('KEYWORD', 3, 'be'), 23) is 6

Contribution of (('KEYWORD', 4, 'Beyoncé'), 26) is 3

Contribution of (('KEYWORD', 5, 'Knowles'), 27) is 2

Contribution of (('KEYWORD', 6, 'be'), 49) is 20

Contribution of (('KEYWORD', 7, 'be'), 71) is 42

Contribution of (('KEYWORD', 8, '-'), 77) is 48

Contribution of (('KEYWORD', 9, 'be'), 83) is 54

Contribution of (('KEYWORD', 10, 'be'), 94) is 65

Contribution of (('KEYWORD', 11, '?'), 103) is 74

Contribution of (('KEYWORD', 12, 'Beyoncé'), 109) is 80

So, score for (('PERSON', 4, ['Taylor']), 29) is 438

NE is (('PERSON', 5, ['Jean', '-', 'Marie', 'Horvat']), 34) posn is 34

Contribution of (('KEYWORD', 1, 'be'), 5) is 29

Contribution of (('KEYWORD', 2, '-'), 9) is 25

Contribution of (('KEYWORD', 3, 'be'), 23) is 11

Contribution of (('KEYWORD', 4, 'Beyoncé'), 26) is 8

Contribution of (('KEYWORD', 5, 'Knowles'), 27) is 7

Contribution of (('KEYWORD', 6, 'be'), 49) is 15

Contribution of (('KEYWORD', 7, 'be'), 71) is 37

Contribution of (('KEYWORD', 8, '-'), 77) is 43

Contribution of (('KEYWORD', 9, 'be'), 83) is 49

Contribution of (('KEYWORD', 10, 'be'), 94) is 60

Contribution of (('KEYWORD', 11, '?'), 103) is 69

Contribution of (('KEYWORD', 12, 'Beyoncé'), 109) is 75

So, score for (('PERSON', 5, ['Jean', '-', 'Marie', 'Horvat']), 34) is 428

NE is (('PERSON', 6, ['Valencia']), 40) posn is 40

Contribution of (('KEYWORD', 1, 'be'), 5) is 35

Contribution of (('KEYWORD', 2, '-'), 9) is 31

Contribution of (('KEYWORD', 3, 'be'), 23) is 17

Contribution of (('KEYWORD', 4, 'Beyoncé'), 26) is 14

Contribution of (('KEYWORD', 5, 'Knowles'), 27) is 13

Contribution of (('KEYWORD', 6, 'be'), 49) is 9

Contribution of (('KEYWORD', 7, 'be'), 71) is 31

Contribution of (('KEYWORD', 8, '-'), 77) is 37

Contribution of (('KEYWORD', 9, 'be'), 83) is 43

Contribution of (('KEYWORD', 10, 'be'), 94) is 54

Contribution of (('KEYWORD', 11, '?'), 103) is 63

Contribution of (('KEYWORD', 12, 'Beyoncé'), 109) is 69

So, score for (('PERSON', 6, ['Valencia']), 40) is 416

NE is (('PERSON', 7, ['Jim', 'Caruana']), 52) posn is 52

Contribution of (('KEYWORD', 1, 'be'), 5) is 47

Contribution of (('KEYWORD', 2, '-'), 9) is 43

Contribution of (('KEYWORD', 3, 'be'), 23) is 29

Contribution of (('KEYWORD', 4, 'Beyoncé'), 26) is 26

Contribution of (('KEYWORD', 5, 'Knowles'), 27) is 25

Contribution of (('KEYWORD', 6, 'be'), 49) is 3

Contribution of (('KEYWORD', 7, 'be'), 71) is 19

Contribution of (('KEYWORD', 8, '-'), 77) is 25

Contribution of (('KEYWORD', 9, 'be'), 83) is 31

Contribution of (('KEYWORD', 10, 'be'), 94) is 42

Contribution of (('KEYWORD', 11, '?'), 103) is 51

Contribution of (('KEYWORD', 12, 'Beyoncé'), 109) is 57

So, score for (('PERSON', 7, ['Jim', 'Caruana']), 52) is 398

NE is (('PERSON', 8, ['Shane', 'Woodley']), 54) posn is 54

Contribution of (('KEYWORD', 1, 'be'), 5) is 49

Contribution of (('KEYWORD', 2, '-'), 9) is 45

Contribution of (('KEYWORD', 3, 'be'), 23) is 31

Contribution of (('KEYWORD', 4, 'Beyoncé'), 26) is 28

Contribution of (('KEYWORD', 5, 'Knowles'), 27) is 27

Contribution of (('KEYWORD', 6, 'be'), 49) is 5

Contribution of (('KEYWORD', 7, 'be'), 71) is 17

Contribution of (('KEYWORD', 8, '-'), 77) is 23

Contribution of (('KEYWORD', 9, 'be'), 83) is 29

Contribution of (('KEYWORD', 10, 'be'), 94) is 40

Contribution of (('KEYWORD', 11, '?'), 103) is 49

Contribution of (('KEYWORD', 12, 'Beyoncé'), 109) is 55

So, score for (('PERSON', 8, ['Shane', 'Woodley']), 54) is 398

NE is (('PERSON', 9, ['Robert', '"', 'LB', '"']), 56) posn is 56

Contribution of (('KEYWORD', 1, 'be'), 5) is 51

Contribution of (('KEYWORD', 2, '-'), 9) is 47

Contribution of (('KEYWORD', 3, 'be'), 23) is 33

Contribution of (('KEYWORD', 4, 'Beyoncé'), 26) is 30

Contribution of (('KEYWORD', 5, 'Knowles'), 27) is 29

Contribution of (('KEYWORD', 6, 'be'), 49) is 7

Contribution of (('KEYWORD', 7, 'be'), 71) is 15

Contribution of (('KEYWORD', 8, '-'), 77) is 21

Contribution of (('KEYWORD', 9, 'be'), 83) is 27

Contribution of (('KEYWORD', 10, 'be'), 94) is 38

Contribution of (('KEYWORD', 11, '?'), 103) is 47

Contribution of (('KEYWORD', 12, 'Beyoncé'), 109) is 53

So, score for (('PERSON', 9, ['Robert', '"', 'LB', '"']), 56) is 398

NE is (('PERSON', 10, ['Tyler', 'Perry', "'s"]), 97) posn is 97

Contribution of (('KEYWORD', 1, 'be'), 5) is 92

Contribution of (('KEYWORD', 2, '-'), 9) is 88

Contribution of (('KEYWORD', 3, 'be'), 23) is 74

Contribution of (('KEYWORD', 4, 'Beyoncé'), 26) is 71

Contribution of (('KEYWORD', 5, 'Knowles'), 27) is 70

Contribution of (('KEYWORD', 6, 'be'), 49) is 48

Contribution of (('KEYWORD', 7, 'be'), 71) is 26

Contribution of (('KEYWORD', 8, '-'), 77) is 20

Contribution of (('KEYWORD', 9, 'be'), 83) is 14

Contribution of (('KEYWORD', 10, 'be'), 94) is 3

Contribution of (('KEYWORD', 11, '?'), 103) is 6

Contribution of (('KEYWORD', 12, 'Beyoncé'), 109) is 12

So, score for (('PERSON', 10, ['Tyler', 'Perry', "'s"]), 97) is 524

NE is (('PERSON', 11, ['Beyoncé', 'Karaoke', 'Hits']), 122) posn is 122

Contribution of (('KEYWORD', 1, 'be'), 5) is 117

Contribution of (('KEYWORD', 2, '-'), 9) is 113

Contribution of (('KEYWORD', 3, 'be'), 23) is 99

Contribution of (('KEYWORD', 4, 'Beyoncé'), 26) is 96

Contribution of (('KEYWORD', 5, 'Knowles'), 27) is 95

Contribution of (('KEYWORD', 6, 'be'), 49) is 73

Contribution of (('KEYWORD', 7, 'be'), 71) is 51

Contribution of (('KEYWORD', 8, '-'), 77) is 45

Contribution of (('KEYWORD', 9, 'be'), 83) is 39

Contribution of (('KEYWORD', 10, 'be'), 94) is 28

Contribution of (('KEYWORD', 11, '?'), 103) is 19

Contribution of (('KEYWORD', 12, 'Beyoncé'), 109) is 13

So, score for (('PERSON', 11, ['Beyoncé', 'Karaoke', 'Hits']), 122) is 788

NE is (('PERSON', 12, ['Vol']), 124) posn is 124

Contribution of (('KEYWORD', 1, 'be'), 5) is 119

Contribution of (('KEYWORD', 2, '-'), 9) is 115

Contribution of (('KEYWORD', 3, 'be'), 23) is 101

Contribution of (('KEYWORD', 4, 'Beyoncé'), 26) is 98

Contribution of (('KEYWORD', 5, 'Knowles'), 27) is 97

Contribution of (('KEYWORD', 6, 'be'), 49) is 75

Contribution of (('KEYWORD', 7, 'be'), 71) is 53

Contribution of (('KEYWORD', 8, '-'), 77) is 47

Contribution of (('KEYWORD', 9, 'be'), 83) is 41

Contribution of (('KEYWORD', 10, 'be'), 94) is 30

Contribution of (('KEYWORD', 11, '?'), 103) is 21

Contribution of (('KEYWORD', 12, 'Beyoncé'), 109) is 15

So, score for (('PERSON', 12, ['Vol']), 124) is 812

NE is (('PERSON', 13, ['Journey']), 140) posn is 140

Contribution of (('KEYWORD', 1, 'be'), 5) is 135

Contribution of (('KEYWORD', 2, '-'), 9) is 131

Contribution of (('KEYWORD', 3, 'be'), 23) is 117

Contribution of (('KEYWORD', 4, 'Beyoncé'), 26) is 114

Contribution of (('KEYWORD', 5, 'Knowles'), 27) is 113

Contribution of (('KEYWORD', 6, 'be'), 49) is 91

Contribution of (('KEYWORD', 7, 'be'), 71) is 69

Contribution of (('KEYWORD', 8, '-'), 77) is 63

Contribution of (('KEYWORD', 9, 'be'), 83) is 57

Contribution of (('KEYWORD', 10, 'be'), 94) is 46

Contribution of (('KEYWORD', 11, '?'), 103) is 37

Contribution of (('KEYWORD', 12, 'Beyoncé'), 109) is 31

So, score for (('PERSON', 13, ['Journey']), 140) is 1004

(Lower NE score means better match but zero score means no KEYWORDs in sentence.)

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original\_query:

Does Los Angeles has good economy?

search\_tokens extracted:

['do', 'Los', 'Angeles', 'have', 'good', 'economy', '?']

query\_type\_json: unknown

query\_type\_spacy: PERSON

Elastic query submitted with search\_tokens\_string:

{'multi\_match': {'query': 'do Los Angeles have good economy ?', 'fields': [], 'type': 'best\_fields'}}

result\_text\_list:

['"City Is Ours" is a song by American pop group, Big Time Rush. It was released digitally on August 3, 2010, as the fifth promotional single from their debut studio album, BTR.']

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Looking at a para, searching for answers:

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Named Entities recognised and search\_tokens marked as KEYWORD:

['"', 'City', 'be', 'our', '"', 'be', 'a', 'song', 'by', 'american', 'pop', 'group', ',', 'Big', 'Time', 'Rush', '.', 'it', 'be', 'release', 'digitally', 'on', 'August', '3', ',', '2010', ',', 'as', 'the', 'fifth', 'promotional', 'single', 'from', 'their', 'debut', 'studio', 'album', ',', 'BTR', '.']

Named Entities listed with position of each (1st word is number 0):

[]

KEYWORDS listed with position of each:

[]

NE(s) in the sentence with contribution of each KEYWORD to NE score:

(Lower NE score means better match but zero score means no KEYWORDs in sentence.)

--------------------------------------------------------------------------

original\_query:

What is BeyGOOD organization created?

search\_tokens extracted:

['what', 'be', 'BeyGOOD', 'organization', 'create', '?']

query\_type\_json: unknown

query\_type\_spacy: PERSON

Elastic query submitted with search\_tokens\_string:

{'multi\_match': {'query': 'what be BeyGOOD organization create ?', 'fields': [], 'type': 'best\_fields'}}

result\_text\_list:

['is a Japanese company that gathers and analyzes data from the digital entertainment industry, specifically focusing on the Japanese console gaming market. Business operations include publishing, market research and consulting. It is a popular website for people interested in learning the latest video game software and hardware sales figures from Japan. The company publishes "The Annual Game Industry Report" every year.']

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Looking at a para, searching for answers:

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Named Entities recognised and search\_tokens marked as KEYWORD:

[('KEYWORD', 1, 'be'), 'a', 'japanese', 'company', 'that', 'gather', 'and', 'analyze', 'datum', 'from', 'the', 'digital', 'entertainment', 'industry', ',', 'specifically', 'focus', 'on', 'the', 'japanese', 'console', 'gaming', 'market', '.', 'business', 'operation', 'include', 'publishing', ',', 'market', 'research', 'and', 'consulting', '.', 'it', ('KEYWORD', 2, 'be'), 'a', 'popular', 'website', 'for', 'people', 'interested', 'in', 'learn', 'the', 'late', 'video', 'game', 'software', 'and', 'hardware', 'sale', 'figure', 'from', 'Japan', '.', 'the', 'company', 'publish', '"', 'the', 'Annual', 'Game', 'Industry', 'Report', '"', 'every', 'year', '.']

Named Entities listed with position of each (1st word is number 0):

[]

KEYWORDS listed with position of each:

[(('KEYWORD', 1, 'be'), 0), (('KEYWORD', 2, 'be'), 35)]

NE(s) in the sentence with contribution of each KEYWORD to NE score:

(Lower NE score means better match but zero score means no KEYWORDs in sentence.)

--------------------------------------------------------------------------

original\_query:

who was the founder of BeyGOOD?

search\_tokens extracted:

['who', 'be', 'the', 'founder', 'of', 'BeyGOOD', '?']

query\_type\_json: person

query\_type\_spacy: PERSON

Elastic query submitted with search\_tokens\_string:

{'multi\_match': {'query': 'who be the founder of BeyGOOD ?', 'fields': [], 'type': 'best\_fields'}}

result\_text\_list:

["The Founder is a 2016 American biographical drama film directed by John Lee Hancock and written by Robert Siegel. Starring Michael Keaton as businessman Ray Kroc, the film depicts the story of his creation of the McDonald's fast-food restaurant chain, which eventually involved forcing out the company's original founders to take control with conniving ruthlessness. Nick Offerman and John Carroll Lynch co-star as McDonald's founders Richard and Maurice McDonald, alongside Linda Cardellini as Ray Kroc's third wife Joan Smith, and B. J. Novak as McDonald's president and chief executive Harry J. Sonneborn."]

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Looking at a para, searching for answers:

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Named Entities recognised and search\_tokens marked as KEYWORD:

[('KEYWORD', 1, 'the'), 'Founder', ('KEYWORD', 2, 'be'), 'a', '2016', 'american', 'biographical', 'drama', 'film', 'direct', 'by', ('PERSON', 1, ['John', 'Lee', 'Hancock']), 'and', 'write', 'by', ('PERSON', 2, ['Robert', 'Siegel']), '.', 'star', ('PERSON', 3, ['Michael', 'Keaton']), 'as', 'businessman', ('PERSON', 4, ['Ray', 'Kroc']), ',', ('KEYWORD', 3, 'the'), 'film', 'depict', ('KEYWORD', 4, 'the'), 'story', ('KEYWORD', 5, 'of'), 'his', 'creation', ('KEYWORD', 6, 'of'), ('KEYWORD', 7, 'the'), 'McDonald', "'s", 'fast', '-', 'food', 'restaurant', 'chain', ',', 'which', 'eventually', 'involve', 'force', 'out', ('KEYWORD', 8, 'the'), 'company', "'s", 'original', ('KEYWORD', 9, 'founder'), 'to', 'take', 'control', 'with', 'connive', 'ruthlessness', '.', ('PERSON', 5, ['Nick', 'Offerman']), 'and', ('PERSON', 6, ['John', 'Carroll', 'Lynch']), 'co', '-', 'star', 'as', 'McDonald', "'s", ('KEYWORD', 10, 'founder'), ('PERSON', 7, ['Richard']), 'and', ('PERSON', 8, ['Maurice', 'McDonald']), ',', 'alongside', ('PERSON', 9, ['Linda', 'Cardellini']), 'as', ('PERSON', 10, ['Ray', 'Kroc', "'s"]), 'third', 'wife', ('PERSON', 11, ['Joan', 'Smith']), ',', 'and', ('PERSON', 12, ['B.', 'J.', 'Novak']), 'as', 'McDonald', "'s", 'president', 'and', 'chief', 'executive', ('PERSON', 13, ['Harry', 'J.', 'Sonneborn']), '.']

Named Entities listed with position of each (1st word is number 0):

[(('PERSON', 1, ['John', 'Lee', 'Hancock']), 11), (('PERSON', 2, ['Robert', 'Siegel']), 15), (('PERSON', 3, ['Michael', 'Keaton']), 18), (('PERSON', 4, ['Ray', 'Kroc']), 21), (('PERSON', 5, ['Nick', 'Offerman']), 58), (('PERSON', 6, ['John', 'Carroll', 'Lynch']), 60), (('PERSON', 7, ['Richard']), 68), (('PERSON', 8, ['Maurice', 'McDonald']), 70), (('PERSON', 9, ['Linda', 'Cardellini']), 73), (('PERSON', 10, ['Ray', 'Kroc', "'s"]), 75), (('PERSON', 11, ['Joan', 'Smith']), 78), (('PERSON', 12, ['B.', 'J.', 'Novak']), 81), (('PERSON', 13, ['Harry', 'J.', 'Sonneborn']), 89)]

KEYWORDS listed with position of each:

[(('KEYWORD', 1, 'the'), 0), (('KEYWORD', 2, 'be'), 2), (('KEYWORD', 3, 'the'), 23), (('KEYWORD', 4, 'the'), 26), (('KEYWORD', 5, 'of'), 28), (('KEYWORD', 6, 'of'), 31), (('KEYWORD', 7, 'the'), 32), (('KEYWORD', 8, 'the'), 46), (('KEYWORD', 9, 'founder'), 50), (('KEYWORD', 10, 'founder'), 67)]

NE(s) in the sentence with contribution of each KEYWORD to NE score:

NE is (('PERSON', 1, ['John', 'Lee', 'Hancock']), 11) posn is 11

Contribution of (('KEYWORD', 1, 'the'), 0) is 11

Contribution of (('KEYWORD', 2, 'be'), 2) is 9

Contribution of (('KEYWORD', 3, 'the'), 23) is 12

Contribution of (('KEYWORD', 4, 'the'), 26) is 15

Contribution of (('KEYWORD', 5, 'of'), 28) is 17

Contribution of (('KEYWORD', 6, 'of'), 31) is 20

Contribution of (('KEYWORD', 7, 'the'), 32) is 21

Contribution of (('KEYWORD', 8, 'the'), 46) is 35

Contribution of (('KEYWORD', 9, 'founder'), 50) is 39

Contribution of (('KEYWORD', 10, 'founder'), 67) is 56

So, score for (('PERSON', 1, ['John', 'Lee', 'Hancock']), 11) is 235

NE is (('PERSON', 2, ['Robert', 'Siegel']), 15) posn is 15

Contribution of (('KEYWORD', 1, 'the'), 0) is 15

Contribution of (('KEYWORD', 2, 'be'), 2) is 13

Contribution of (('KEYWORD', 3, 'the'), 23) is 8

Contribution of (('KEYWORD', 4, 'the'), 26) is 11

Contribution of (('KEYWORD', 5, 'of'), 28) is 13

Contribution of (('KEYWORD', 6, 'of'), 31) is 16

Contribution of (('KEYWORD', 7, 'the'), 32) is 17

Contribution of (('KEYWORD', 8, 'the'), 46) is 31

Contribution of (('KEYWORD', 9, 'founder'), 50) is 35

Contribution of (('KEYWORD', 10, 'founder'), 67) is 52

So, score for (('PERSON', 2, ['Robert', 'Siegel']), 15) is 211

NE is (('PERSON', 3, ['Michael', 'Keaton']), 18) posn is 18

Contribution of (('KEYWORD', 1, 'the'), 0) is 18

Contribution of (('KEYWORD', 2, 'be'), 2) is 16

Contribution of (('KEYWORD', 3, 'the'), 23) is 5

Contribution of (('KEYWORD', 4, 'the'), 26) is 8

Contribution of (('KEYWORD', 5, 'of'), 28) is 10

Contribution of (('KEYWORD', 6, 'of'), 31) is 13

Contribution of (('KEYWORD', 7, 'the'), 32) is 14

Contribution of (('KEYWORD', 8, 'the'), 46) is 28

Contribution of (('KEYWORD', 9, 'founder'), 50) is 32

Contribution of (('KEYWORD', 10, 'founder'), 67) is 49

So, score for (('PERSON', 3, ['Michael', 'Keaton']), 18) is 193

NE is (('PERSON', 4, ['Ray', 'Kroc']), 21) posn is 21

Contribution of (('KEYWORD', 1, 'the'), 0) is 21

Contribution of (('KEYWORD', 2, 'be'), 2) is 19

Contribution of (('KEYWORD', 3, 'the'), 23) is 2

Contribution of (('KEYWORD', 4, 'the'), 26) is 5

Contribution of (('KEYWORD', 5, 'of'), 28) is 7

Contribution of (('KEYWORD', 6, 'of'), 31) is 10

Contribution of (('KEYWORD', 7, 'the'), 32) is 11

Contribution of (('KEYWORD', 8, 'the'), 46) is 25

Contribution of (('KEYWORD', 9, 'founder'), 50) is 29

Contribution of (('KEYWORD', 10, 'founder'), 67) is 46

So, score for (('PERSON', 4, ['Ray', 'Kroc']), 21) is 175

NE is (('PERSON', 5, ['Nick', 'Offerman']), 58) posn is 58

Contribution of (('KEYWORD', 1, 'the'), 0) is 58

Contribution of (('KEYWORD', 2, 'be'), 2) is 56

Contribution of (('KEYWORD', 3, 'the'), 23) is 35

Contribution of (('KEYWORD', 4, 'the'), 26) is 32

Contribution of (('KEYWORD', 5, 'of'), 28) is 30

Contribution of (('KEYWORD', 6, 'of'), 31) is 27

Contribution of (('KEYWORD', 7, 'the'), 32) is 26

Contribution of (('KEYWORD', 8, 'the'), 46) is 12

Contribution of (('KEYWORD', 9, 'founder'), 50) is 8

Contribution of (('KEYWORD', 10, 'founder'), 67) is 9

So, score for (('PERSON', 5, ['Nick', 'Offerman']), 58) is 293

NE is (('PERSON', 6, ['John', 'Carroll', 'Lynch']), 60) posn is 60

Contribution of (('KEYWORD', 1, 'the'), 0) is 60

Contribution of (('KEYWORD', 2, 'be'), 2) is 58

Contribution of (('KEYWORD', 3, 'the'), 23) is 37

Contribution of (('KEYWORD', 4, 'the'), 26) is 34

Contribution of (('KEYWORD', 5, 'of'), 28) is 32

Contribution of (('KEYWORD', 6, 'of'), 31) is 29

Contribution of (('KEYWORD', 7, 'the'), 32) is 28

Contribution of (('KEYWORD', 8, 'the'), 46) is 14

Contribution of (('KEYWORD', 9, 'founder'), 50) is 10

Contribution of (('KEYWORD', 10, 'founder'), 67) is 7

So, score for (('PERSON', 6, ['John', 'Carroll', 'Lynch']), 60) is 309

NE is (('PERSON', 7, ['Richard']), 68) posn is 68

Contribution of (('KEYWORD', 1, 'the'), 0) is 68

Contribution of (('KEYWORD', 2, 'be'), 2) is 66

Contribution of (('KEYWORD', 3, 'the'), 23) is 45

Contribution of (('KEYWORD', 4, 'the'), 26) is 42

Contribution of (('KEYWORD', 5, 'of'), 28) is 40

Contribution of (('KEYWORD', 6, 'of'), 31) is 37

Contribution of (('KEYWORD', 7, 'the'), 32) is 36

Contribution of (('KEYWORD', 8, 'the'), 46) is 22

Contribution of (('KEYWORD', 9, 'founder'), 50) is 18

Contribution of (('KEYWORD', 10, 'founder'), 67) is 1

So, score for (('PERSON', 7, ['Richard']), 68) is 375

NE is (('PERSON', 8, ['Maurice', 'McDonald']), 70) posn is 70

Contribution of (('KEYWORD', 1, 'the'), 0) is 70

Contribution of (('KEYWORD', 2, 'be'), 2) is 68

Contribution of (('KEYWORD', 3, 'the'), 23) is 47

Contribution of (('KEYWORD', 4, 'the'), 26) is 44

Contribution of (('KEYWORD', 5, 'of'), 28) is 42

Contribution of (('KEYWORD', 6, 'of'), 31) is 39

Contribution of (('KEYWORD', 7, 'the'), 32) is 38

Contribution of (('KEYWORD', 8, 'the'), 46) is 24

Contribution of (('KEYWORD', 9, 'founder'), 50) is 20

Contribution of (('KEYWORD', 10, 'founder'), 67) is 3

So, score for (('PERSON', 8, ['Maurice', 'McDonald']), 70) is 395

NE is (('PERSON', 9, ['Linda', 'Cardellini']), 73) posn is 73

Contribution of (('KEYWORD', 1, 'the'), 0) is 73

Contribution of (('KEYWORD', 2, 'be'), 2) is 71

Contribution of (('KEYWORD', 3, 'the'), 23) is 50

Contribution of (('KEYWORD', 4, 'the'), 26) is 47

Contribution of (('KEYWORD', 5, 'of'), 28) is 45

Contribution of (('KEYWORD', 6, 'of'), 31) is 42

Contribution of (('KEYWORD', 7, 'the'), 32) is 41

Contribution of (('KEYWORD', 8, 'the'), 46) is 27

Contribution of (('KEYWORD', 9, 'founder'), 50) is 23

Contribution of (('KEYWORD', 10, 'founder'), 67) is 6

So, score for (('PERSON', 9, ['Linda', 'Cardellini']), 73) is 425

NE is (('PERSON', 10, ['Ray', 'Kroc', "'s"]), 75) posn is 75

Contribution of (('KEYWORD', 1, 'the'), 0) is 75

Contribution of (('KEYWORD', 2, 'be'), 2) is 73

Contribution of (('KEYWORD', 3, 'the'), 23) is 52

Contribution of (('KEYWORD', 4, 'the'), 26) is 49

Contribution of (('KEYWORD', 5, 'of'), 28) is 47

Contribution of (('KEYWORD', 6, 'of'), 31) is 44

Contribution of (('KEYWORD', 7, 'the'), 32) is 43

Contribution of (('KEYWORD', 8, 'the'), 46) is 29

Contribution of (('KEYWORD', 9, 'founder'), 50) is 25

Contribution of (('KEYWORD', 10, 'founder'), 67) is 8

So, score for (('PERSON', 10, ['Ray', 'Kroc', "'s"]), 75) is 445

NE is (('PERSON', 11, ['Joan', 'Smith']), 78) posn is 78

Contribution of (('KEYWORD', 1, 'the'), 0) is 78

Contribution of (('KEYWORD', 2, 'be'), 2) is 76

Contribution of (('KEYWORD', 3, 'the'), 23) is 55

Contribution of (('KEYWORD', 4, 'the'), 26) is 52

Contribution of (('KEYWORD', 5, 'of'), 28) is 50

Contribution of (('KEYWORD', 6, 'of'), 31) is 47

Contribution of (('KEYWORD', 7, 'the'), 32) is 46

Contribution of (('KEYWORD', 8, 'the'), 46) is 32

Contribution of (('KEYWORD', 9, 'founder'), 50) is 28

Contribution of (('KEYWORD', 10, 'founder'), 67) is 11

So, score for (('PERSON', 11, ['Joan', 'Smith']), 78) is 475

NE is (('PERSON', 12, ['B.', 'J.', 'Novak']), 81) posn is 81

Contribution of (('KEYWORD', 1, 'the'), 0) is 81

Contribution of (('KEYWORD', 2, 'be'), 2) is 79

Contribution of (('KEYWORD', 3, 'the'), 23) is 58

Contribution of (('KEYWORD', 4, 'the'), 26) is 55

Contribution of (('KEYWORD', 5, 'of'), 28) is 53

Contribution of (('KEYWORD', 6, 'of'), 31) is 50

Contribution of (('KEYWORD', 7, 'the'), 32) is 49

Contribution of (('KEYWORD', 8, 'the'), 46) is 35

Contribution of (('KEYWORD', 9, 'founder'), 50) is 31

Contribution of (('KEYWORD', 10, 'founder'), 67) is 14

So, score for (('PERSON', 12, ['B.', 'J.', 'Novak']), 81) is 505

NE is (('PERSON', 13, ['Harry', 'J.', 'Sonneborn']), 89) posn is 89

Contribution of (('KEYWORD', 1, 'the'), 0) is 89

Contribution of (('KEYWORD', 2, 'be'), 2) is 87

Contribution of (('KEYWORD', 3, 'the'), 23) is 66

Contribution of (('KEYWORD', 4, 'the'), 26) is 63

Contribution of (('KEYWORD', 5, 'of'), 28) is 61

Contribution of (('KEYWORD', 6, 'of'), 31) is 58

Contribution of (('KEYWORD', 7, 'the'), 32) is 57

Contribution of (('KEYWORD', 8, 'the'), 46) is 43

Contribution of (('KEYWORD', 9, 'founder'), 50) is 39

Contribution of (('KEYWORD', 10, 'founder'), 67) is 22

So, score for (('PERSON', 13, ['Harry', 'J.', 'Sonneborn']), 89) is 585

(Lower NE score means better match but zero score means no KEYWORDs in sentence.)

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original\_query:

What has BeyGOOD done?

search\_tokens extracted:

['what', 'have', 'BeyGOOD', 'do', '?']

query\_type\_json: unknown

query\_type\_spacy: PERSON

Elastic query submitted with search\_tokens\_string:

{'multi\_match': {'query': 'what have BeyGOOD do ?', 'fields': [], 'type': 'best\_fields'}}

result\_text\_list:

['"What Lovers Do" is a song by American band Maroon 5 featuring American singer SZA. It was released on August 30, 2017, as the third single from the band\'s sixth studio album Red Pill Blues (2017). The song contains an interpolation of the 2016 song "Sexual" by Neiked featuring Dyo, therefore Victor Rådström, Dyo and Elina Stridh are credited as songwriters. Commercially, the song reached the top 10 in the United States and 20 additional countries. It is certified Platinum or higher in the US and 14 additional countries.']

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Looking at a para, searching for answers:

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Named Entities recognised and search\_tokens marked as KEYWORD:

['"', ('KEYWORD', 1, 'what'), 'Lovers', ('KEYWORD', 2, 'do'), '"', 'be', 'a', 'song', 'by', 'american', 'band', 'Maroon', '5', 'feature', 'american', 'singer', 'SZA', '.', 'it', 'be', 'release', 'on', 'August', '30', ',', '2017', ',', 'as', 'the', 'third', 'single', 'from', 'the', 'band', "'s", 'sixth', 'studio', 'album', 'Red', 'Pill', 'Blues', '(', '2017', ')', '.', 'the', 'song', 'contain', 'an', 'interpolation', 'of', 'the', '2016', 'song', '"', 'Sexual', '"', 'by', ('PERSON', 1, ['Neiked']), 'feature', 'Dyo', ',', 'therefore', ('PERSON', 2, ['Victor', 'Rådström']), ',', 'Dyo', 'and', ('PERSON', 3, ['Elina', 'Stridh']), 'be', 'credit', 'as', 'songwriter', '.', 'commercially', ',', 'the', 'song', 'reach', 'the', 'top', '10', 'in', 'the', 'United', 'States', 'and', '20', 'additional', 'country', '.', 'it', 'be', 'certify', 'platinum', 'or', 'high', 'in', 'the', 'US', 'and', '14', 'additional', 'country', '.']

Named Entities listed with position of each (1st word is number 0):

[(('PERSON', 1, ['Neiked']), 58), (('PERSON', 2, ['Victor', 'Rådström']), 63), (('PERSON', 3, ['Elina', 'Stridh']), 67)]

KEYWORDS listed with position of each:

[(('KEYWORD', 1, 'what'), 1), (('KEYWORD', 2, 'do'), 3)]

NE(s) in the sentence with contribution of each KEYWORD to NE score:

NE is (('PERSON', 1, ['Neiked']), 58) posn is 58

Contribution of (('KEYWORD', 1, 'what'), 1) is 57

Contribution of (('KEYWORD', 2, 'do'), 3) is 55

So, score for (('PERSON', 1, ['Neiked']), 58) is 112

NE is (('PERSON', 2, ['Victor', 'Rådström']), 63) posn is 63

Contribution of (('KEYWORD', 1, 'what'), 1) is 62

Contribution of (('KEYWORD', 2, 'do'), 3) is 60

So, score for (('PERSON', 2, ['Victor', 'Rådström']), 63) is 122

NE is (('PERSON', 3, ['Elina', 'Stridh']), 67) posn is 67

Contribution of (('KEYWORD', 1, 'what'), 1) is 66

Contribution of (('KEYWORD', 2, 'do'), 3) is 64

So, score for (('PERSON', 3, ['Elina', 'Stridh']), 67) is 130

(Lower NE score means better match but zero score means no KEYWORDs in sentence.)

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original\_query:

where is the griffith park?

search\_tokens extracted:

['where', 'be', 'the', 'griffith', 'park', '?']

query\_type\_json: location

query\_type\_spacy: PERSON

Elastic query submitted with search\_tokens\_string:

{'multi\_match': {'query': 'where be the griffith park ?', 'fields': [], 'type': 'best\_fields'}}

result\_text\_list:

['Griffith Park is a large municipal park at the eastern end of the Santa Monica Mountains, in the Los Feliz neighborhood of Los Angeles, California. The park includes popular attractions such as the Los Angeles Zoo, the Autry Museum of the American West, the Griffith Observatory, and the Hollywood Sign. Due to its appearance in many films, the park is among the most famous municipal parks in North America.']

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Looking at a para, searching for answers:

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Named Entities recognised and search\_tokens marked as KEYWORD:

['Griffith', 'Park', ('KEYWORD', 1, 'be'), 'a', 'large', 'municipal', ('KEYWORD', 2, 'park'), 'at', ('KEYWORD', 3, 'the'), 'eastern', 'end', 'of', ('KEYWORD', 4, 'the'), 'Santa', 'Monica', 'Mountains', ',', 'in', ('KEYWORD', 5, 'the'), 'Los', 'Feliz', 'neighborhood', 'of', 'Los', 'Angeles', ',', 'California', '.', ('KEYWORD', 6, 'the'), ('KEYWORD', 7, 'park'), 'include', 'popular', 'attraction', 'such', 'as', ('KEYWORD', 8, 'the'), 'Los', 'Angeles', 'Zoo', ',', ('KEYWORD', 9, 'the'), 'Autry', 'Museum', 'of', ('KEYWORD', 10, 'the'), 'American', 'West', ',', ('KEYWORD', 11, 'the'), 'Griffith', 'Observatory', ',', 'and', ('KEYWORD', 12, 'the'), 'Hollywood', 'Sign', '.', 'due', 'to', 'its', 'appearance', 'in', 'many', 'film', ',', ('KEYWORD', 13, 'the'), ('KEYWORD', 14, 'park'), ('KEYWORD', 15, 'be'), 'among', ('KEYWORD', 16, 'the'), 'most', 'famous', 'municipal', ('KEYWORD', 17, 'park'), 'in', 'North', 'America', '.']

Named Entities listed with position of each (1st word is number 0):

[]

KEYWORDS listed with position of each:

[(('KEYWORD', 1, 'be'), 2), (('KEYWORD', 2, 'park'), 6), (('KEYWORD', 3, 'the'), 8), (('KEYWORD', 4, 'the'), 12), (('KEYWORD', 5, 'the'), 18), (('KEYWORD', 6, 'the'), 28), (('KEYWORD', 7, 'park'), 29), (('KEYWORD', 8, 'the'), 35), (('KEYWORD', 9, 'the'), 40), (('KEYWORD', 10, 'the'), 44), (('KEYWORD', 11, 'the'), 48), (('KEYWORD', 12, 'the'), 53), (('KEYWORD', 13, 'the'), 65), (('KEYWORD', 14, 'park'), 66), (('KEYWORD', 15, 'be'), 67), (('KEYWORD', 16, 'the'), 69), (('KEYWORD', 17, 'park'), 73)]

NE(s) in the sentence with contribution of each KEYWORD to NE score:

(Lower NE score means better match but zero score means no KEYWORDs in sentence.)

--------------------------------------------------------------------------

original\_query:

What are Beyoncé Knowles-Carter latest feature or album?

search\_tokens extracted:

['what', 'be', 'Beyoncé', 'Knowles', '-', 'Carter', 'late', 'feature', 'or', 'album', '?']

query\_type\_json: unknown

query\_type\_spacy: PERSON

Elastic query submitted with search\_tokens\_string:

{'multi\_match': {'query': 'what be Beyoncé Knowles - Carter late feature or album ?', 'fields': [], 'type': 'best\_fields'}}

result\_text\_list:

['"Kitty Kat" is a song by American singer Beyoncé for her second studio album, B\'Day (2006). It was composed by Beyoncé, Pharrell Williams, and Shawn Carter. "Kitty Kat" is a mid-tempo electro, hip hop soul and R&B song whose lyrics detail a situation where a woman feels that her man has underestimated her. The song was generally well received by music critics who noted it to be a seductive track thanks to its "I\'m not feelin[g] it" vibe. However, some music critics felt that the production does not live up to those of other songs featured on B\'Day.']

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Looking at a para, searching for answers:

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Named Entities recognised and search\_tokens marked as KEYWORD:

['"', ('PERSON', 1, ['Kitty', 'Kat']), '"', ('KEYWORD', 1, 'be'), 'a', 'song', 'by', 'american', 'singer', ('PERSON', 2, ['Beyoncé']), 'for', 'her', 'second', 'studio', ('KEYWORD', 2, 'album'), ',', ('PERSON', 3, ["B'Day"]), '(', '2006', ')', '.', 'it', ('KEYWORD', 3, 'be'), 'compose', 'by', ('KEYWORD', 4, 'Beyoncé'), ',', ('PERSON', 4, ['Pharrell', 'Williams']), ',', 'and', ('PERSON', 5, ['Shawn', 'Carter']), '.', '"', ('PERSON', 6, ['Kitty', 'Kat']), '"', ('KEYWORD', 5, 'be'), 'a', 'mid', ('KEYWORD', 6, '-'), 'tempo', 'electro', ',', 'hip', 'hop', 'soul', 'and', 'R&B', 'song', 'whose', 'lyric', 'detail', 'a', 'situation', 'where', 'a', 'woman', 'feel', 'that', 'her', 'man', 'have', 'underestimate', 'she', '.', 'the', 'song', ('KEYWORD', 7, 'be'), 'generally', 'well', 'receive', 'by', 'music', 'critic', 'who', 'note', 'it', 'to', ('KEYWORD', 8, 'be'), 'a', 'seductive', 'track', 'thank', 'to', 'its', '"', 'I', ('KEYWORD', 9, 'be'), 'not', 'feelin[g', ']', 'it', '"', 'vibe', '.', 'however', ',', 'some', 'music', 'critic', 'feel', 'that', 'the', 'production', 'do', 'not', 'live', 'up', 'to', 'those', 'of', 'other', 'song', ('KEYWORD', 10, 'feature'), 'on', ('PERSON', 7, ["B'Day"]), '.']

Named Entities listed with position of each (1st word is number 0):

[(('PERSON', 1, ['Kitty', 'Kat']), 1), (('PERSON', 2, ['Beyoncé']), 9), (('PERSON', 3, ["B'Day"]), 16), (('PERSON', 4, ['Pharrell', 'Williams']), 27), (('PERSON', 5, ['Shawn', 'Carter']), 30), (('PERSON', 6, ['Kitty', 'Kat']), 33), (('PERSON', 7, ["B'Day"]), 114)]

KEYWORDS listed with position of each:

[(('KEYWORD', 1, 'be'), 3), (('KEYWORD', 2, 'album'), 14), (('KEYWORD', 3, 'be'), 22), (('KEYWORD', 4, 'Beyoncé'), 25), (('KEYWORD', 5, 'be'), 35), (('KEYWORD', 6, '-'), 38), (('KEYWORD', 7, 'be'), 66), (('KEYWORD', 8, 'be'), 77), (('KEYWORD', 9, 'be'), 86), (('KEYWORD', 10, 'feature'), 112)]

NE(s) in the sentence with contribution of each KEYWORD to NE score:

NE is (('PERSON', 1, ['Kitty', 'Kat']), 1) posn is 1

Contribution of (('KEYWORD', 1, 'be'), 3) is 2

Contribution of (('KEYWORD', 2, 'album'), 14) is 13

Contribution of (('KEYWORD', 3, 'be'), 22) is 21

Contribution of (('KEYWORD', 4, 'Beyoncé'), 25) is 24

Contribution of (('KEYWORD', 5, 'be'), 35) is 34

Contribution of (('KEYWORD', 6, '-'), 38) is 37

Contribution of (('KEYWORD', 7, 'be'), 66) is 65

Contribution of (('KEYWORD', 8, 'be'), 77) is 76

Contribution of (('KEYWORD', 9, 'be'), 86) is 85

Contribution of (('KEYWORD', 10, 'feature'), 112) is 111

So, score for (('PERSON', 1, ['Kitty', 'Kat']), 1) is 468

NE is (('PERSON', 2, ['Beyoncé']), 9) posn is 9

Contribution of (('KEYWORD', 1, 'be'), 3) is 6

Contribution of (('KEYWORD', 2, 'album'), 14) is 5

Contribution of (('KEYWORD', 3, 'be'), 22) is 13

Contribution of (('KEYWORD', 4, 'Beyoncé'), 25) is 16

Contribution of (('KEYWORD', 5, 'be'), 35) is 26

Contribution of (('KEYWORD', 6, '-'), 38) is 29

Contribution of (('KEYWORD', 7, 'be'), 66) is 57

Contribution of (('KEYWORD', 8, 'be'), 77) is 68

Contribution of (('KEYWORD', 9, 'be'), 86) is 77

Contribution of (('KEYWORD', 10, 'feature'), 112) is 103

So, score for (('PERSON', 2, ['Beyoncé']), 9) is 400

NE is (('PERSON', 3, ["B'Day"]), 16) posn is 16

Contribution of (('KEYWORD', 1, 'be'), 3) is 13

Contribution of (('KEYWORD', 2, 'album'), 14) is 2

Contribution of (('KEYWORD', 3, 'be'), 22) is 6

Contribution of (('KEYWORD', 4, 'Beyoncé'), 25) is 9

Contribution of (('KEYWORD', 5, 'be'), 35) is 19

Contribution of (('KEYWORD', 6, '-'), 38) is 22

Contribution of (('KEYWORD', 7, 'be'), 66) is 50

Contribution of (('KEYWORD', 8, 'be'), 77) is 61

Contribution of (('KEYWORD', 9, 'be'), 86) is 70

Contribution of (('KEYWORD', 10, 'feature'), 112) is 96

So, score for (('PERSON', 3, ["B'Day"]), 16) is 348

NE is (('PERSON', 4, ['Pharrell', 'Williams']), 27) posn is 27

Contribution of (('KEYWORD', 1, 'be'), 3) is 24

Contribution of (('KEYWORD', 2, 'album'), 14) is 13

Contribution of (('KEYWORD', 3, 'be'), 22) is 5

Contribution of (('KEYWORD', 4, 'Beyoncé'), 25) is 2

Contribution of (('KEYWORD', 5, 'be'), 35) is 8

Contribution of (('KEYWORD', 6, '-'), 38) is 11

Contribution of (('KEYWORD', 7, 'be'), 66) is 39

Contribution of (('KEYWORD', 8, 'be'), 77) is 50

Contribution of (('KEYWORD', 9, 'be'), 86) is 59

Contribution of (('KEYWORD', 10, 'feature'), 112) is 85

So, score for (('PERSON', 4, ['Pharrell', 'Williams']), 27) is 296

NE is (('PERSON', 5, ['Shawn', 'Carter']), 30) posn is 30

Contribution of (('KEYWORD', 1, 'be'), 3) is 27

Contribution of (('KEYWORD', 2, 'album'), 14) is 16

Contribution of (('KEYWORD', 3, 'be'), 22) is 8

Contribution of (('KEYWORD', 4, 'Beyoncé'), 25) is 5

Contribution of (('KEYWORD', 5, 'be'), 35) is 5

Contribution of (('KEYWORD', 6, '-'), 38) is 8

Contribution of (('KEYWORD', 7, 'be'), 66) is 36

Contribution of (('KEYWORD', 8, 'be'), 77) is 47

Contribution of (('KEYWORD', 9, 'be'), 86) is 56

Contribution of (('KEYWORD', 10, 'feature'), 112) is 82

So, score for (('PERSON', 5, ['Shawn', 'Carter']), 30) is 290

NE is (('PERSON', 6, ['Kitty', 'Kat']), 33) posn is 33

Contribution of (('KEYWORD', 1, 'be'), 3) is 30

Contribution of (('KEYWORD', 2, 'album'), 14) is 19

Contribution of (('KEYWORD', 3, 'be'), 22) is 11

Contribution of (('KEYWORD', 4, 'Beyoncé'), 25) is 8

Contribution of (('KEYWORD', 5, 'be'), 35) is 2

Contribution of (('KEYWORD', 6, '-'), 38) is 5

Contribution of (('KEYWORD', 7, 'be'), 66) is 33

Contribution of (('KEYWORD', 8, 'be'), 77) is 44

Contribution of (('KEYWORD', 9, 'be'), 86) is 53

Contribution of (('KEYWORD', 10, 'feature'), 112) is 79

So, score for (('PERSON', 6, ['Kitty', 'Kat']), 33) is 284

NE is (('PERSON', 7, ["B'Day"]), 114) posn is 114

Contribution of (('KEYWORD', 1, 'be'), 3) is 111

Contribution of (('KEYWORD', 2, 'album'), 14) is 100

Contribution of (('KEYWORD', 3, 'be'), 22) is 92

Contribution of (('KEYWORD', 4, 'Beyoncé'), 25) is 89

Contribution of (('KEYWORD', 5, 'be'), 35) is 79

Contribution of (('KEYWORD', 6, '-'), 38) is 76

Contribution of (('KEYWORD', 7, 'be'), 66) is 48

Contribution of (('KEYWORD', 8, 'be'), 77) is 37

Contribution of (('KEYWORD', 9, 'be'), 86) is 28

Contribution of (('KEYWORD', 10, 'feature'), 112) is 2

So, score for (('PERSON', 7, ["B'Day"]), 114) is 662

(Lower NE score means better match but zero score means no KEYWORDs in sentence.)

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original\_query:

when did Beyoncé Knowles-Carter give birth?

search\_tokens extracted:

['when', 'do', 'Beyoncé', 'Knowles', '-', 'Carter', 'give', 'birth', '?']

query\_type\_json: unknown

query\_type\_spacy: PERSON

Elastic query submitted with search\_tokens\_string:

{'multi\_match': {'query': 'when do Beyoncé Knowles - Carter give birth ?', 'fields': [], 'type': 'best\_fields'}}

result\_text\_list:

['Blue Ivy Carter (born January 7, 2012) is an American singer. She is the first-born daughter of musicians Jay-Z and Beyoncé. Two days after her birth, Time dubbed Carter "the most famous baby in the world." That same day, her vocals were featured on the song "Glory", by her father Jay-Z, which earned her a Guinness World Record for being the youngest person to have a charted song on any Billboard chart. She has been the subject of depictions in media, including impersonations on Saturday Night Live and RuPaul\'s Drag Race.']

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Looking at a para, searching for answers:

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Named Entities recognised and search\_tokens marked as KEYWORD:

['Blue', 'Ivy', ('PERSON', 1, ['Carter']), '(', 'bear', 'January', '7', ',', '2012', ')', 'be', 'an', 'american', 'singer', '.', 'she', 'be', 'the', 'first', ('KEYWORD', 1, '-'), 'bear', 'daughter', 'of', 'musician', ('PERSON', 2, ['Jay', '-', 'Z']), 'and', ('KEYWORD', 2, 'Beyoncé'), '.', 'two', 'day', 'after', 'her', ('KEYWORD', 3, 'birth'), ',', 'Time', 'dub', ('PERSON', 3, ['Carter']), '"', 'the', 'most', 'famous', 'baby', 'in', 'the', 'world', '.', '"', 'that', 'same', 'day', ',', 'her', 'vocal', 'be', 'feature', 'on', 'the', 'song', '"', 'Glory', '"', ',', 'by', 'her', 'father', ('PERSON', 4, ['Jay', '-', 'Z']), ',', 'which', 'earn', 'she', 'a', 'Guinness', 'World', 'Record', 'for', 'be', 'the', 'young', 'person', 'to', 'have', 'a', 'chart', 'song', 'on', 'any', ('PERSON', 5, ['Billboard']), 'chart', '.', 'she', 'have', 'be', 'the', 'subject', 'of', 'depiction', 'in', 'medium', ',', 'include', 'impersonation', 'on', 'Saturday', 'Night', 'Live', 'and', 'RuPaul', "'s", 'Drag', 'Race', '.']

Named Entities listed with position of each (1st word is number 0):

[(('PERSON', 1, ['Carter']), 2), (('PERSON', 2, ['Jay', '-', 'Z']), 24), (('PERSON', 3, ['Carter']), 36), (('PERSON', 4, ['Jay', '-', 'Z']), 65), (('PERSON', 5, ['Billboard']), 86)]

KEYWORDS listed with position of each:

[(('KEYWORD', 1, '-'), 19), (('KEYWORD', 2, 'Beyoncé'), 26), (('KEYWORD', 3, 'birth'), 32)]

NE(s) in the sentence with contribution of each KEYWORD to NE score:

NE is (('PERSON', 1, ['Carter']), 2) posn is 2

Contribution of (('KEYWORD', 1, '-'), 19) is 17

Contribution of (('KEYWORD', 2, 'Beyoncé'), 26) is 24

Contribution of (('KEYWORD', 3, 'birth'), 32) is 30

So, score for (('PERSON', 1, ['Carter']), 2) is 71

NE is (('PERSON', 2, ['Jay', '-', 'Z']), 24) posn is 24

Contribution of (('KEYWORD', 1, '-'), 19) is 5

Contribution of (('KEYWORD', 2, 'Beyoncé'), 26) is 2

Contribution of (('KEYWORD', 3, 'birth'), 32) is 8

So, score for (('PERSON', 2, ['Jay', '-', 'Z']), 24) is 15

NE is (('PERSON', 3, ['Carter']), 36) posn is 36

Contribution of (('KEYWORD', 1, '-'), 19) is 17

Contribution of (('KEYWORD', 2, 'Beyoncé'), 26) is 10

Contribution of (('KEYWORD', 3, 'birth'), 32) is 4

So, score for (('PERSON', 3, ['Carter']), 36) is 31

NE is (('PERSON', 4, ['Jay', '-', 'Z']), 65) posn is 65

Contribution of (('KEYWORD', 1, '-'), 19) is 46

Contribution of (('KEYWORD', 2, 'Beyoncé'), 26) is 39

Contribution of (('KEYWORD', 3, 'birth'), 32) is 33

So, score for (('PERSON', 4, ['Jay', '-', 'Z']), 65) is 118

NE is (('PERSON', 5, ['Billboard']), 86) posn is 86

Contribution of (('KEYWORD', 1, '-'), 19) is 67

Contribution of (('KEYWORD', 2, 'Beyoncé'), 26) is 60

Contribution of (('KEYWORD', 3, 'birth'), 32) is 54

So, score for (('PERSON', 5, ['Billboard']), 86) is 181

(Lower NE score means better match but zero score means no KEYWORDs in sentence.)

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original\_query:

What collaborations did Beyoncé Knowles-Carter?

search\_tokens extracted:

['what', 'collaboration', 'do', 'Beyoncé', 'Knowles', '-', 'Carter', '?']

query\_type\_json: unknown

query\_type\_spacy: PERSON

Elastic query submitted with search\_tokens\_string:

{'multi\_match': {'query': 'what collaboration do Beyoncé Knowles - Carter ?', 'fields': [], 'type': 'best\_fields'}}

result\_text\_list:

['"Video Phone" is a song recorded by American singer Beyoncé for her third studio album I Am... Sasha Fierce (2008). It was written and produced by Beyoncé, Shondrae Crawford and Sean Garrett. A crunk song, it consists of simple lyrics and hidden innuendos. The lyrics refer to putting up a sexy display to be recorded on a video phone. The song was released as the eighth single from I Am... Sasha Fierce on September 22, 2009, with its remix featuring Lady Gaga being released on November 17.']

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Looking at a para, searching for answers:

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Named Entities recognised and search\_tokens marked as KEYWORD:

['"', 'Video', 'Phone', '"', 'be', 'a', 'song', 'record', 'by', 'american', 'singer', ('PERSON', 1, ['Beyoncé']), 'for', 'her', 'third', 'studio', 'album', 'I', 'be', '...', 'Sasha', 'Fierce', '(', '2008', ')', '.', 'it', 'be', 'write', 'and', 'produce', 'by', ('KEYWORD', 1, 'Beyoncé'), ',', ('PERSON', 2, ['Shondrae', 'Crawford']), 'and', ('PERSON', 3, ['Sean', 'Garrett']), '.', 'a', 'crunk', 'song', ',', 'it', 'consist', 'of', 'simple', 'lyric', 'and', 'hidden', 'innuendo', '.', 'the', 'lyric', 'refer', 'to', 'put', 'up', 'a', 'sexy', 'display', 'to', 'be', 'record', 'on', 'a', 'video', 'phone', '.', 'the', 'song', 'be', 'release', 'as', 'the', 'eighth', 'single', 'from', 'I', 'be', '...', 'Sasha', 'Fierce', 'on', 'September', '22', ',', '2009', ',', 'with', 'its', 'remix', 'feature', ('PERSON', 4, ['Lady', 'Gaga']), 'be', 'release', 'on', 'November', '17', '.']

Named Entities listed with position of each (1st word is number 0):

[(('PERSON', 1, ['Beyoncé']), 11), (('PERSON', 2, ['Shondrae', 'Crawford']), 34), (('PERSON', 3, ['Sean', 'Garrett']), 36), (('PERSON', 4, ['Lady', 'Gaga']), 92)]

KEYWORDS listed with position of each:

[(('KEYWORD', 1, 'Beyoncé'), 32)]

NE(s) in the sentence with contribution of each KEYWORD to NE score:

NE is (('PERSON', 1, ['Beyoncé']), 11) posn is 11

Contribution of (('KEYWORD', 1, 'Beyoncé'), 32) is 21

So, score for (('PERSON', 1, ['Beyoncé']), 11) is 21

NE is (('PERSON', 2, ['Shondrae', 'Crawford']), 34) posn is 34

Contribution of (('KEYWORD', 1, 'Beyoncé'), 32) is 2

So, score for (('PERSON', 2, ['Shondrae', 'Crawford']), 34) is 2

NE is (('PERSON', 3, ['Sean', 'Garrett']), 36) posn is 36

Contribution of (('KEYWORD', 1, 'Beyoncé'), 32) is 4

So, score for (('PERSON', 3, ['Sean', 'Garrett']), 36) is 4

NE is (('PERSON', 4, ['Lady', 'Gaga']), 92) posn is 92

Contribution of (('KEYWORD', 1, 'Beyoncé'), 32) is 60

So, score for (('PERSON', 4, ['Lady', 'Gaga']), 92) is 60

(Lower NE score means better match but zero score means no KEYWORDs in sentence.)

--------------------------------------------------------------------------

original\_query:

Where is BeyGOOD located?

search\_tokens extracted:

['where', 'be', 'BeyGOOD', 'locate', '?']

query\_type\_json: unknown

query\_type\_spacy: PERSON

Elastic query submitted with search\_tokens\_string:

{'multi\_match': {'query': 'where be BeyGOOD locate ?', 'fields': [], 'type': 'best\_fields'}}

result\_text\_list:

['Damizza Presents... Where I Wanna Be is a compilation album presented by American record producer Damizza. It was released on October 31, 2000 through London Records. Production was handled by Eddie Berkeley, Jermaine Dupri, KayGee, Warren G, and Damizza himself, who also served as executive producer together with co-executive producers Rick Cummings, Shade Sheist and Sujit Kundu. It features contributions from Shade Sheist, Damon Sharpe, Krayzie Bone, TQ, Big Caz, Ja Rule, Kurupt, Layzie Bone, Nate Dogg, Tatum Tots and Damizza. The album peaked at number 143 on the Billboard 200 and number 28 on the Top R&B/Hip-Hop Albums in the United States.']

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Looking at a para, searching for answers:

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Named Entities recognised and search\_tokens marked as KEYWORD:

[('PERSON', 1, ['Damizza', 'Presents']), '...', ('KEYWORD', 1, 'where'), 'I', 'Wanna', ('KEYWORD', 2, 'be'), ('KEYWORD', 3, 'be'), 'a', 'compilation', 'album', 'present', 'by', 'american', 'record', 'producer', ('PERSON', 2, ['Damizza']), '.', 'it', ('KEYWORD', 4, 'be'), 'release', 'on', 'October', '31', ',', '2000', 'through', 'London', 'Records', '.', 'production', ('KEYWORD', 5, 'be'), 'handle', 'by', ('PERSON', 3, ['Eddie', 'Berkeley']), ',', ('PERSON', 4, ['Jermaine', 'Dupri']), ',', 'KayGee', ',', ('PERSON', 5, ['Warren', 'G']), ',', 'and', ('PERSON', 6, ['Damizza']), 'himself', ',', 'who', 'also', 'serve', 'as', 'executive', 'producer', 'together', 'with', 'co', '-', 'executive', 'producer', ('PERSON', 7, ['Rick', 'Cummings']), ',', 'Shade', 'Sheist', 'and', 'Sujit', 'Kundu', '.', 'it', 'feature', 'contribution', 'from', 'Shade', ('PERSON', 8, ['Sheist']), ',', 'Damon', ('PERSON', 9, ['Sharpe']), ',', 'Krayzie', 'Bone', ',', 'TQ', ',', 'Big', 'Caz', ',', ('PERSON', 10, ['Ja', 'Rule']), ',', 'Kurupt', ',', ('PERSON', 11, ['Layzie', 'Bone']), ',', 'Nate', 'Dogg', ',', ('PERSON', 12, ['Tatum', 'Tots']), 'and', ('PERSON', 13, ['Damizza']), '.', 'the', 'album', 'peak', 'at', 'number', '143', 'on', 'the', 'Billboard', '200', 'and', 'number', '28', 'on', 'the', 'Top', 'R&B', '/', 'Hip', '-', 'Hop', 'Albums', 'in', 'the', 'United', 'States', '.']

Named Entities listed with position of each (1st word is number 0):

[(('PERSON', 1, ['Damizza', 'Presents']), 0), (('PERSON', 2, ['Damizza']), 15), (('PERSON', 3, ['Eddie', 'Berkeley']), 33), (('PERSON', 4, ['Jermaine', 'Dupri']), 35), (('PERSON', 5, ['Warren', 'G']), 39), (('PERSON', 6, ['Damizza']), 42), (('PERSON', 7, ['Rick', 'Cummings']), 57), (('PERSON', 8, ['Sheist']), 70), (('PERSON', 9, ['Sharpe']), 73), (('PERSON', 10, ['Ja', 'Rule']), 83), (('PERSON', 11, ['Layzie', 'Bone']), 87), (('PERSON', 12, ['Tatum', 'Tots']), 92), (('PERSON', 13, ['Damizza']), 94)]

KEYWORDS listed with position of each:

[(('KEYWORD', 1, 'where'), 2), (('KEYWORD', 2, 'be'), 5), (('KEYWORD', 3, 'be'), 6), (('KEYWORD', 4, 'be'), 18), (('KEYWORD', 5, 'be'), 30)]

NE(s) in the sentence with contribution of each KEYWORD to NE score:

NE is (('PERSON', 1, ['Damizza', 'Presents']), 0) posn is 0

Contribution of (('KEYWORD', 1, 'where'), 2) is 2

Contribution of (('KEYWORD', 2, 'be'), 5) is 5

Contribution of (('KEYWORD', 3, 'be'), 6) is 6

Contribution of (('KEYWORD', 4, 'be'), 18) is 18

Contribution of (('KEYWORD', 5, 'be'), 30) is 30

So, score for (('PERSON', 1, ['Damizza', 'Presents']), 0) is 61

NE is (('PERSON', 2, ['Damizza']), 15) posn is 15

Contribution of (('KEYWORD', 1, 'where'), 2) is 13

Contribution of (('KEYWORD', 2, 'be'), 5) is 10

Contribution of (('KEYWORD', 3, 'be'), 6) is 9

Contribution of (('KEYWORD', 4, 'be'), 18) is 3

Contribution of (('KEYWORD', 5, 'be'), 30) is 15

So, score for (('PERSON', 2, ['Damizza']), 15) is 50

NE is (('PERSON', 3, ['Eddie', 'Berkeley']), 33) posn is 33

Contribution of (('KEYWORD', 1, 'where'), 2) is 31

Contribution of (('KEYWORD', 2, 'be'), 5) is 28

Contribution of (('KEYWORD', 3, 'be'), 6) is 27

Contribution of (('KEYWORD', 4, 'be'), 18) is 15

Contribution of (('KEYWORD', 5, 'be'), 30) is 3

So, score for (('PERSON', 3, ['Eddie', 'Berkeley']), 33) is 104

NE is (('PERSON', 4, ['Jermaine', 'Dupri']), 35) posn is 35

Contribution of (('KEYWORD', 1, 'where'), 2) is 33

Contribution of (('KEYWORD', 2, 'be'), 5) is 30

Contribution of (('KEYWORD', 3, 'be'), 6) is 29

Contribution of (('KEYWORD', 4, 'be'), 18) is 17

Contribution of (('KEYWORD', 5, 'be'), 30) is 5

So, score for (('PERSON', 4, ['Jermaine', 'Dupri']), 35) is 114

NE is (('PERSON', 5, ['Warren', 'G']), 39) posn is 39

Contribution of (('KEYWORD', 1, 'where'), 2) is 37

Contribution of (('KEYWORD', 2, 'be'), 5) is 34

Contribution of (('KEYWORD', 3, 'be'), 6) is 33

Contribution of (('KEYWORD', 4, 'be'), 18) is 21

Contribution of (('KEYWORD', 5, 'be'), 30) is 9

So, score for (('PERSON', 5, ['Warren', 'G']), 39) is 134

NE is (('PERSON', 6, ['Damizza']), 42) posn is 42

Contribution of (('KEYWORD', 1, 'where'), 2) is 40

Contribution of (('KEYWORD', 2, 'be'), 5) is 37

Contribution of (('KEYWORD', 3, 'be'), 6) is 36

Contribution of (('KEYWORD', 4, 'be'), 18) is 24

Contribution of (('KEYWORD', 5, 'be'), 30) is 12

So, score for (('PERSON', 6, ['Damizza']), 42) is 149

NE is (('PERSON', 7, ['Rick', 'Cummings']), 57) posn is 57

Contribution of (('KEYWORD', 1, 'where'), 2) is 55

Contribution of (('KEYWORD', 2, 'be'), 5) is 52

Contribution of (('KEYWORD', 3, 'be'), 6) is 51

Contribution of (('KEYWORD', 4, 'be'), 18) is 39

Contribution of (('KEYWORD', 5, 'be'), 30) is 27

So, score for (('PERSON', 7, ['Rick', 'Cummings']), 57) is 224

NE is (('PERSON', 8, ['Sheist']), 70) posn is 70

Contribution of (('KEYWORD', 1, 'where'), 2) is 68

Contribution of (('KEYWORD', 2, 'be'), 5) is 65

Contribution of (('KEYWORD', 3, 'be'), 6) is 64

Contribution of (('KEYWORD', 4, 'be'), 18) is 52

Contribution of (('KEYWORD', 5, 'be'), 30) is 40

So, score for (('PERSON', 8, ['Sheist']), 70) is 289

NE is (('PERSON', 9, ['Sharpe']), 73) posn is 73

Contribution of (('KEYWORD', 1, 'where'), 2) is 71

Contribution of (('KEYWORD', 2, 'be'), 5) is 68

Contribution of (('KEYWORD', 3, 'be'), 6) is 67

Contribution of (('KEYWORD', 4, 'be'), 18) is 55

Contribution of (('KEYWORD', 5, 'be'), 30) is 43

So, score for (('PERSON', 9, ['Sharpe']), 73) is 304

NE is (('PERSON', 10, ['Ja', 'Rule']), 83) posn is 83

Contribution of (('KEYWORD', 1, 'where'), 2) is 81

Contribution of (('KEYWORD', 2, 'be'), 5) is 78

Contribution of (('KEYWORD', 3, 'be'), 6) is 77

Contribution of (('KEYWORD', 4, 'be'), 18) is 65

Contribution of (('KEYWORD', 5, 'be'), 30) is 53

So, score for (('PERSON', 10, ['Ja', 'Rule']), 83) is 354

NE is (('PERSON', 11, ['Layzie', 'Bone']), 87) posn is 87

Contribution of (('KEYWORD', 1, 'where'), 2) is 85

Contribution of (('KEYWORD', 2, 'be'), 5) is 82

Contribution of (('KEYWORD', 3, 'be'), 6) is 81

Contribution of (('KEYWORD', 4, 'be'), 18) is 69

Contribution of (('KEYWORD', 5, 'be'), 30) is 57

So, score for (('PERSON', 11, ['Layzie', 'Bone']), 87) is 374

NE is (('PERSON', 12, ['Tatum', 'Tots']), 92) posn is 92

Contribution of (('KEYWORD', 1, 'where'), 2) is 90

Contribution of (('KEYWORD', 2, 'be'), 5) is 87

Contribution of (('KEYWORD', 3, 'be'), 6) is 86

Contribution of (('KEYWORD', 4, 'be'), 18) is 74

Contribution of (('KEYWORD', 5, 'be'), 30) is 62

So, score for (('PERSON', 12, ['Tatum', 'Tots']), 92) is 399

NE is (('PERSON', 13, ['Damizza']), 94) posn is 94

Contribution of (('KEYWORD', 1, 'where'), 2) is 92

Contribution of (('KEYWORD', 2, 'be'), 5) is 89

Contribution of (('KEYWORD', 3, 'be'), 6) is 88

Contribution of (('KEYWORD', 4, 'be'), 18) is 76

Contribution of (('KEYWORD', 5, 'be'), 30) is 64

So, score for (('PERSON', 13, ['Damizza']), 94) is 409

(Lower NE score means better match but zero score means no KEYWORDs in sentence.)

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original\_query:

What venues has Beyoncé Knowles-Carter performed in Los Angeles Beyonce?

search\_tokens extracted:

['what', 'venue', 'have', 'Beyoncé', 'Knowles', '-', 'Carter', 'perform', 'in', 'Los', 'Angeles', 'Beyonce', '?']

query\_type\_json: unknown

query\_type\_spacy: PERSON

Elastic query submitted with search\_tokens\_string:

{'multi\_match': {'query': 'what venue have Beyoncé Knowles - Carter perform in Los Angeles Beyonce ?', 'fields': [], 'type': 'best\_fields'}}

result\_text\_list:

["Celestine Beyoncé Knowles-Lawson (née Beyonce; born January 4, 1954) is an American businesswoman, fashion designer, and philanthropist known for establishing the brands House of Deréon and Miss Tina by Tina Knowles. She is the mother of singers Beyoncé and Solange Knowles, and, until 2011, was married to their father Mathew Knowles, the manager of Destiny's Child."]

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Looking at a para, searching for answers:

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Named Entities recognised and search\_tokens marked as KEYWORD:

[('PERSON', 1, ['Celestine', 'Beyoncé', 'Knowles', '-', 'Lawson']), '(', 'née', ('PERSON', 2, ['Beyonce']), ';', 'bear', 'January', '4', ',', '1954', ')', 'be', 'an', 'american', 'businesswoman', ',', 'fashion', 'designer', ',', 'and', 'philanthropist', 'know', 'for', 'establish', 'the', 'brand', 'House', 'of', 'Deréon', 'and', 'Miss', ('PERSON', 3, ['Tina']), 'by', ('PERSON', 4, ['Tina', 'Knowles']), '.', 'she', 'be', 'the', 'mother', 'of', 'singer', ('KEYWORD', 1, 'Beyoncé'), 'and', 'Solange', ('KEYWORD', 2, 'Knowles'), ',', 'and', ',', 'until', '2011', ',', 'be', 'married', 'to', 'their', 'father', ('PERSON', 5, ['Mathew', 'Knowles']), ',', 'the', 'manager', 'of', 'Destiny', "'s", 'child', '.']

Named Entities listed with position of each (1st word is number 0):

[(('PERSON', 1, ['Celestine', 'Beyoncé', 'Knowles', '-', 'Lawson']), 0), (('PERSON', 2, ['Beyonce']), 3), (('PERSON', 3, ['Tina']), 31), (('PERSON', 4, ['Tina', 'Knowles']), 33), (('PERSON', 5, ['Mathew', 'Knowles']), 56)]

KEYWORDS listed with position of each:

[(('KEYWORD', 1, 'Beyoncé'), 41), (('KEYWORD', 2, 'Knowles'), 44)]

NE(s) in the sentence with contribution of each KEYWORD to NE score:

NE is (('PERSON', 1, ['Celestine', 'Beyoncé', 'Knowles', '-', 'Lawson']), 0) posn is 0

Contribution of (('KEYWORD', 1, 'Beyoncé'), 41) is 41

Contribution of (('KEYWORD', 2, 'Knowles'), 44) is 44

So, score for (('PERSON', 1, ['Celestine', 'Beyoncé', 'Knowles', '-', 'Lawson']), 0) is 85

NE is (('PERSON', 2, ['Beyonce']), 3) posn is 3

Contribution of (('KEYWORD', 1, 'Beyoncé'), 41) is 38

Contribution of (('KEYWORD', 2, 'Knowles'), 44) is 41

So, score for (('PERSON', 2, ['Beyonce']), 3) is 79

NE is (('PERSON', 3, ['Tina']), 31) posn is 31

Contribution of (('KEYWORD', 1, 'Beyoncé'), 41) is 10

Contribution of (('KEYWORD', 2, 'Knowles'), 44) is 13

So, score for (('PERSON', 3, ['Tina']), 31) is 23

NE is (('PERSON', 4, ['Tina', 'Knowles']), 33) posn is 33

Contribution of (('KEYWORD', 1, 'Beyoncé'), 41) is 8

Contribution of (('KEYWORD', 2, 'Knowles'), 44) is 11

So, score for (('PERSON', 4, ['Tina', 'Knowles']), 33) is 19

NE is (('PERSON', 5, ['Mathew', 'Knowles']), 56) posn is 56

Contribution of (('KEYWORD', 1, 'Beyoncé'), 41) is 15

Contribution of (('KEYWORD', 2, 'Knowles'), 44) is 12

So, score for (('PERSON', 5, ['Mathew', 'Knowles']), 56) is 27

(Lower NE score means better match but zero score means no KEYWORDs in sentence.)

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original\_query:

Who is Beyoncé Knowles-Carter family?

search\_tokens extracted:

['who', 'be', 'Beyoncé', 'Knowles', '-', 'Carter', 'family', '?']

query\_type\_json: unknown

query\_type\_spacy: PERSON

Elastic query submitted with search\_tokens\_string:

{'multi\_match': {'query': 'who be Beyoncé Knowles - Carter family ?', 'fields': [], 'type': 'best\_fields'}}

result\_text\_list:

["Celestine Beyoncé Knowles-Lawson (née Beyonce; born January 4, 1954) is an American businesswoman, fashion designer, and philanthropist known for establishing the brands House of Deréon and Miss Tina by Tina Knowles. She is the mother of singers Beyoncé and Solange Knowles, and, until 2011, was married to their father Mathew Knowles, the manager of Destiny's Child."]

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Looking at a para, searching for answers:

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Named Entities recognised and search\_tokens marked as KEYWORD:

[('PERSON', 1, ['Celestine', 'Beyoncé', 'Knowles', '-', 'Lawson']), '(', 'née', ('PERSON', 2, ['Beyonce']), ';', 'bear', 'January', '4', ',', '1954', ')', ('KEYWORD', 1, 'be'), 'an', 'american', 'businesswoman', ',', 'fashion', 'designer', ',', 'and', 'philanthropist', 'know', 'for', 'establish', 'the', 'brand', 'House', 'of', 'Deréon', 'and', 'Miss', ('PERSON', 3, ['Tina']), 'by', ('PERSON', 4, ['Tina', 'Knowles']), '.', 'she', ('KEYWORD', 2, 'be'), 'the', 'mother', 'of', 'singer', ('KEYWORD', 3, 'Beyoncé'), 'and', 'Solange', ('KEYWORD', 4, 'Knowles'), ',', 'and', ',', 'until', '2011', ',', ('KEYWORD', 5, 'be'), 'married', 'to', 'their', 'father', ('PERSON', 5, ['Mathew', 'Knowles']), ',', 'the', 'manager', 'of', 'Destiny', "'s", 'child', '.']

Named Entities listed with position of each (1st word is number 0):

[(('PERSON', 1, ['Celestine', 'Beyoncé', 'Knowles', '-', 'Lawson']), 0), (('PERSON', 2, ['Beyonce']), 3), (('PERSON', 3, ['Tina']), 31), (('PERSON', 4, ['Tina', 'Knowles']), 33), (('PERSON', 5, ['Mathew', 'Knowles']), 56)]

KEYWORDS listed with position of each:

[(('KEYWORD', 1, 'be'), 11), (('KEYWORD', 2, 'be'), 36), (('KEYWORD', 3, 'Beyoncé'), 41), (('KEYWORD', 4, 'Knowles'), 44), (('KEYWORD', 5, 'be'), 51)]

NE(s) in the sentence with contribution of each KEYWORD to NE score:

NE is (('PERSON', 1, ['Celestine', 'Beyoncé', 'Knowles', '-', 'Lawson']), 0) posn is 0

Contribution of (('KEYWORD', 1, 'be'), 11) is 11

Contribution of (('KEYWORD', 2, 'be'), 36) is 36

Contribution of (('KEYWORD', 3, 'Beyoncé'), 41) is 41

Contribution of (('KEYWORD', 4, 'Knowles'), 44) is 44

Contribution of (('KEYWORD', 5, 'be'), 51) is 51

So, score for (('PERSON', 1, ['Celestine', 'Beyoncé', 'Knowles', '-', 'Lawson']), 0) is 183

NE is (('PERSON', 2, ['Beyonce']), 3) posn is 3

Contribution of (('KEYWORD', 1, 'be'), 11) is 8

Contribution of (('KEYWORD', 2, 'be'), 36) is 33

Contribution of (('KEYWORD', 3, 'Beyoncé'), 41) is 38

Contribution of (('KEYWORD', 4, 'Knowles'), 44) is 41

Contribution of (('KEYWORD', 5, 'be'), 51) is 48

So, score for (('PERSON', 2, ['Beyonce']), 3) is 168

NE is (('PERSON', 3, ['Tina']), 31) posn is 31

Contribution of (('KEYWORD', 1, 'be'), 11) is 20

Contribution of (('KEYWORD', 2, 'be'), 36) is 5

Contribution of (('KEYWORD', 3, 'Beyoncé'), 41) is 10

Contribution of (('KEYWORD', 4, 'Knowles'), 44) is 13

Contribution of (('KEYWORD', 5, 'be'), 51) is 20

So, score for (('PERSON', 3, ['Tina']), 31) is 68

NE is (('PERSON', 4, ['Tina', 'Knowles']), 33) posn is 33

Contribution of (('KEYWORD', 1, 'be'), 11) is 22

Contribution of (('KEYWORD', 2, 'be'), 36) is 3

Contribution of (('KEYWORD', 3, 'Beyoncé'), 41) is 8

Contribution of (('KEYWORD', 4, 'Knowles'), 44) is 11

Contribution of (('KEYWORD', 5, 'be'), 51) is 18

So, score for (('PERSON', 4, ['Tina', 'Knowles']), 33) is 62

NE is (('PERSON', 5, ['Mathew', 'Knowles']), 56) posn is 56

Contribution of (('KEYWORD', 1, 'be'), 11) is 45

Contribution of (('KEYWORD', 2, 'be'), 36) is 20

Contribution of (('KEYWORD', 3, 'Beyoncé'), 41) is 15

Contribution of (('KEYWORD', 4, 'Knowles'), 44) is 12

Contribution of (('KEYWORD', 5, 'be'), 51) is 5

So, score for (('PERSON', 5, ['Mathew', 'Knowles']), 56) is 97

(Lower NE score means better match but zero score means no KEYWORDs in sentence.)

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original\_query:

What are Beyoncé Knowles-Carter Grammy Awards ?

search\_tokens extracted:

['what', 'be', 'Beyoncé', 'Knowles', '-', 'Carter', 'Grammy', 'Awards', '?']

query\_type\_json: unknown

query\_type\_spacy: PERSON

Elastic query submitted with search\_tokens\_string:

{'multi\_match': {'query': 'what be Beyoncé Knowles - Carter Grammy Awards ?', 'fields': [], 'type': 'best\_fields'}}

result\_text\_list:

['Blue Ivy Carter (born January 7, 2012) is an American singer. She is the first-born daughter of musicians Jay-Z and Beyoncé. Two days after her birth, Time dubbed Carter "the most famous baby in the world." That same day, her vocals were featured on the song "Glory", by her father Jay-Z, which earned her a Guinness World Record for being the youngest person to have a charted song on any Billboard chart. She has been the subject of depictions in media, including impersonations on Saturday Night Live and RuPaul\'s Drag Race.']

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Looking at a para, searching for answers:

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Named Entities recognised and search\_tokens marked as KEYWORD:

['Blue', 'Ivy', ('PERSON', 1, ['Carter']), '(', 'bear', 'January', '7', ',', '2012', ')', ('KEYWORD', 1, 'be'), 'an', 'american', 'singer', '.', 'she', ('KEYWORD', 2, 'be'), 'the', 'first', ('KEYWORD', 3, '-'), 'bear', 'daughter', 'of', 'musician', ('PERSON', 2, ['Jay', '-', 'Z']), 'and', ('KEYWORD', 4, 'Beyoncé'), '.', 'two', 'day', 'after', 'her', 'birth', ',', 'Time', 'dub', ('PERSON', 3, ['Carter']), '"', 'the', 'most', 'famous', 'baby', 'in', 'the', 'world', '.', '"', 'that', 'same', 'day', ',', 'her', 'vocal', ('KEYWORD', 5, 'be'), 'feature', 'on', 'the', 'song', '"', 'Glory', '"', ',', 'by', 'her', 'father', ('PERSON', 4, ['Jay', '-', 'Z']), ',', 'which', 'earn', 'she', 'a', 'Guinness', 'World', 'Record', 'for', ('KEYWORD', 6, 'be'), 'the', 'young', 'person', 'to', 'have', 'a', 'chart', 'song', 'on', 'any', ('PERSON', 5, ['Billboard']), 'chart', '.', 'she', 'have', ('KEYWORD', 7, 'be'), 'the', 'subject', 'of', 'depiction', 'in', 'medium', ',', 'include', 'impersonation', 'on', 'Saturday', 'Night', 'Live', 'and', 'RuPaul', "'s", 'Drag', 'Race', '.']

Named Entities listed with position of each (1st word is number 0):

[(('PERSON', 1, ['Carter']), 2), (('PERSON', 2, ['Jay', '-', 'Z']), 24), (('PERSON', 3, ['Carter']), 36), (('PERSON', 4, ['Jay', '-', 'Z']), 65), (('PERSON', 5, ['Billboard']), 86)]

KEYWORDS listed with position of each:

[(('KEYWORD', 1, 'be'), 10), (('KEYWORD', 2, 'be'), 16), (('KEYWORD', 3, '-'), 19), (('KEYWORD', 4, 'Beyoncé'), 26), (('KEYWORD', 5, 'be'), 53), (('KEYWORD', 6, 'be'), 75), (('KEYWORD', 7, 'be'), 91)]

NE(s) in the sentence with contribution of each KEYWORD to NE score:

NE is (('PERSON', 1, ['Carter']), 2) posn is 2

Contribution of (('KEYWORD', 1, 'be'), 10) is 8

Contribution of (('KEYWORD', 2, 'be'), 16) is 14

Contribution of (('KEYWORD', 3, '-'), 19) is 17

Contribution of (('KEYWORD', 4, 'Beyoncé'), 26) is 24

Contribution of (('KEYWORD', 5, 'be'), 53) is 51

Contribution of (('KEYWORD', 6, 'be'), 75) is 73

Contribution of (('KEYWORD', 7, 'be'), 91) is 89

So, score for (('PERSON', 1, ['Carter']), 2) is 276

NE is (('PERSON', 2, ['Jay', '-', 'Z']), 24) posn is 24

Contribution of (('KEYWORD', 1, 'be'), 10) is 14

Contribution of (('KEYWORD', 2, 'be'), 16) is 8

Contribution of (('KEYWORD', 3, '-'), 19) is 5

Contribution of (('KEYWORD', 4, 'Beyoncé'), 26) is 2

Contribution of (('KEYWORD', 5, 'be'), 53) is 29

Contribution of (('KEYWORD', 6, 'be'), 75) is 51

Contribution of (('KEYWORD', 7, 'be'), 91) is 67

So, score for (('PERSON', 2, ['Jay', '-', 'Z']), 24) is 176

NE is (('PERSON', 3, ['Carter']), 36) posn is 36

Contribution of (('KEYWORD', 1, 'be'), 10) is 26

Contribution of (('KEYWORD', 2, 'be'), 16) is 20

Contribution of (('KEYWORD', 3, '-'), 19) is 17

Contribution of (('KEYWORD', 4, 'Beyoncé'), 26) is 10

Contribution of (('KEYWORD', 5, 'be'), 53) is 17

Contribution of (('KEYWORD', 6, 'be'), 75) is 39

Contribution of (('KEYWORD', 7, 'be'), 91) is 55

So, score for (('PERSON', 3, ['Carter']), 36) is 184

NE is (('PERSON', 4, ['Jay', '-', 'Z']), 65) posn is 65

Contribution of (('KEYWORD', 1, 'be'), 10) is 55

Contribution of (('KEYWORD', 2, 'be'), 16) is 49

Contribution of (('KEYWORD', 3, '-'), 19) is 46

Contribution of (('KEYWORD', 4, 'Beyoncé'), 26) is 39

Contribution of (('KEYWORD', 5, 'be'), 53) is 12

Contribution of (('KEYWORD', 6, 'be'), 75) is 10

Contribution of (('KEYWORD', 7, 'be'), 91) is 26

So, score for (('PERSON', 4, ['Jay', '-', 'Z']), 65) is 237

NE is (('PERSON', 5, ['Billboard']), 86) posn is 86

Contribution of (('KEYWORD', 1, 'be'), 10) is 76

Contribution of (('KEYWORD', 2, 'be'), 16) is 70

Contribution of (('KEYWORD', 3, '-'), 19) is 67

Contribution of (('KEYWORD', 4, 'Beyoncé'), 26) is 60

Contribution of (('KEYWORD', 5, 'be'), 53) is 33

Contribution of (('KEYWORD', 6, 'be'), 75) is 11

Contribution of (('KEYWORD', 7, 'be'), 91) is 5

So, score for (('PERSON', 5, ['Billboard']), 86) is 322

(Lower NE score means better match but zero score means no KEYWORDs in sentence.)

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original\_query:

which are the best places in Los Angeles?

search\_tokens extracted:

['which', 'be', 'the', 'good', 'place', 'in', 'Los', 'Angeles', '?']

query\_type\_json: unknown

query\_type\_spacy: PERSON

Elastic query submitted with search\_tokens\_string:

{'multi\_match': {'query': 'which be the good place in Los Angeles ?', 'fields': [], 'type': 'best\_fields'}}

result\_text\_list:

['"Ka Hakaka Maika\'i" (Hawaiian for: "The Good Fight") is the sixth episode of the second season of Hawaii Five-0. It aired on October 24, 2011 on CBS. The episode was written by Kyle Harimoto and directed by Larry Teng. The episode included a crossover appearance from Daniela Ruah as Kensi Blye, her character from NCIS: Los Angeles.']

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Looking at a para, searching for answers:

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Named Entities recognised and search\_tokens marked as KEYWORD:

['"', 'Ka', 'Hakaka', "Maika'i", '"', '(', 'hawaiian', 'for', ':', '"', ('KEYWORD', 1, 'the'), 'Good', 'Fight', '"', ')', ('KEYWORD', 2, 'be'), ('KEYWORD', 3, 'the'), 'sixth', 'episode', 'of', ('KEYWORD', 4, 'the'), 'second', 'season', 'of', 'Hawaii', 'five-0', '.', 'it', 'air', 'on', 'October', '24', ',', '2011', 'on', 'CBS', '.', ('KEYWORD', 5, 'the'), 'episode', ('KEYWORD', 6, 'be'), 'write', 'by', ('PERSON', 1, ['Kyle', 'Harimoto']), 'and', 'direct', 'by', ('PERSON', 2, ['Larry', 'Teng']), '.', ('KEYWORD', 7, 'the'), 'episode', 'include', 'a', 'crossover', 'appearance', 'from', ('PERSON', 3, ['Daniela', 'Ruah']), 'as', ('PERSON', 4, ['Kensi', 'Blye']), ',', 'her', 'character', 'from', 'NCIS', ':', ('KEYWORD', 8, 'Los'), ('KEYWORD', 9, 'Angeles'), '.']

Named Entities listed with position of each (1st word is number 0):

[(('PERSON', 1, ['Kyle', 'Harimoto']), 42), (('PERSON', 2, ['Larry', 'Teng']), 46), (('PERSON', 3, ['Daniela', 'Ruah']), 55), (('PERSON', 4, ['Kensi', 'Blye']), 57)]

KEYWORDS listed with position of each:

[(('KEYWORD', 1, 'the'), 10), (('KEYWORD', 2, 'be'), 15), (('KEYWORD', 3, 'the'), 16), (('KEYWORD', 4, 'the'), 20), (('KEYWORD', 5, 'the'), 37), (('KEYWORD', 6, 'be'), 39), (('KEYWORD', 7, 'the'), 48), (('KEYWORD', 8, 'Los'), 64), (('KEYWORD', 9, 'Angeles'), 65)]

NE(s) in the sentence with contribution of each KEYWORD to NE score:

NE is (('PERSON', 1, ['Kyle', 'Harimoto']), 42) posn is 42

Contribution of (('KEYWORD', 1, 'the'), 10) is 32

Contribution of (('KEYWORD', 2, 'be'), 15) is 27

Contribution of (('KEYWORD', 3, 'the'), 16) is 26

Contribution of (('KEYWORD', 4, 'the'), 20) is 22

Contribution of (('KEYWORD', 5, 'the'), 37) is 5

Contribution of (('KEYWORD', 6, 'be'), 39) is 3

Contribution of (('KEYWORD', 7, 'the'), 48) is 6

Contribution of (('KEYWORD', 8, 'Los'), 64) is 22

Contribution of (('KEYWORD', 9, 'Angeles'), 65) is 23

So, score for (('PERSON', 1, ['Kyle', 'Harimoto']), 42) is 166

NE is (('PERSON', 2, ['Larry', 'Teng']), 46) posn is 46

Contribution of (('KEYWORD', 1, 'the'), 10) is 36

Contribution of (('KEYWORD', 2, 'be'), 15) is 31

Contribution of (('KEYWORD', 3, 'the'), 16) is 30

Contribution of (('KEYWORD', 4, 'the'), 20) is 26

Contribution of (('KEYWORD', 5, 'the'), 37) is 9

Contribution of (('KEYWORD', 6, 'be'), 39) is 7

Contribution of (('KEYWORD', 7, 'the'), 48) is 2

Contribution of (('KEYWORD', 8, 'Los'), 64) is 18

Contribution of (('KEYWORD', 9, 'Angeles'), 65) is 19

So, score for (('PERSON', 2, ['Larry', 'Teng']), 46) is 178

NE is (('PERSON', 3, ['Daniela', 'Ruah']), 55) posn is 55

Contribution of (('KEYWORD', 1, 'the'), 10) is 45

Contribution of (('KEYWORD', 2, 'be'), 15) is 40

Contribution of (('KEYWORD', 3, 'the'), 16) is 39

Contribution of (('KEYWORD', 4, 'the'), 20) is 35

Contribution of (('KEYWORD', 5, 'the'), 37) is 18

Contribution of (('KEYWORD', 6, 'be'), 39) is 16

Contribution of (('KEYWORD', 7, 'the'), 48) is 7

Contribution of (('KEYWORD', 8, 'Los'), 64) is 9

Contribution of (('KEYWORD', 9, 'Angeles'), 65) is 10

So, score for (('PERSON', 3, ['Daniela', 'Ruah']), 55) is 219

NE is (('PERSON', 4, ['Kensi', 'Blye']), 57) posn is 57

Contribution of (('KEYWORD', 1, 'the'), 10) is 47

Contribution of (('KEYWORD', 2, 'be'), 15) is 42

Contribution of (('KEYWORD', 3, 'the'), 16) is 41

Contribution of (('KEYWORD', 4, 'the'), 20) is 37

Contribution of (('KEYWORD', 5, 'the'), 37) is 20

Contribution of (('KEYWORD', 6, 'be'), 39) is 18

Contribution of (('KEYWORD', 7, 'the'), 48) is 9

Contribution of (('KEYWORD', 8, 'Los'), 64) is 7

Contribution of (('KEYWORD', 9, 'Angeles'), 65) is 8

So, score for (('PERSON', 4, ['Kensi', 'Blye']), 57) is 229

(Lower NE score means better match but zero score means no KEYWORDs in sentence.)

--------------------------------------------------------------------------

original\_query:

which city is Hollowood located?

search\_tokens extracted:

['which', 'city', 'be', 'Hollowood', 'locate', '?']

query\_type\_json: unknown

query\_type\_spacy: PERSON

Elastic query submitted with search\_tokens\_string:

{'multi\_match': {'query': 'which city be Hollowood locate ?', 'fields': [], 'type': 'best\_fields'}}

result\_text\_list:

['The Design Research Unit (DRU) was one of the first generation of British design consultancies combining expertise in architecture, graphics and industrial design. It was founded by the managing director of Stuart Advertising Agency, Marcus Brumwell with Misha Black and Milner Gray in 1943. It became well known for its work in relation to the Festival of Britain in 1951 and its influential corporate identity project for British Rail in 1965. In 2004, DRU merged with Scott Brownrigg architects.']

=========================================

Looking at a para, searching for answers:

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Named Entities recognised and search\_tokens marked as KEYWORD:

['the', 'Design', 'Research', 'Unit', '(', 'DRU', ')', ('KEYWORD', 1, 'be'), 'one', 'of', 'the', 'first', 'generation', 'of', 'british', 'design', 'consultancy', 'combine', 'expertise', 'in', 'architecture', ',', 'graphic', 'and', 'industrial', 'design', '.', 'it', ('KEYWORD', 2, 'be'), 'found', 'by', 'the', 'manage', 'director', 'of', 'Stuart', 'Advertising', 'Agency', ',', 'Marcus', 'Brumwell', 'with', ('PERSON', 1, ['Misha', 'Black']), 'and', 'Milner', 'Gray', 'in', '1943', '.', 'it', 'become', 'well', 'known', 'for', 'its', 'work', 'in', 'relation', 'to', 'the', 'Festival', 'of', 'Britain', 'in', '1951', 'and', 'its', 'influential', 'corporate', 'identity', 'project', 'for', 'British', 'Rail', 'in', '1965', '.', 'in', '2004', ',', 'DRU', 'merge', 'with', ('PERSON', 2, ['Scott', 'Brownrigg']), 'architect', '.']

Named Entities listed with position of each (1st word is number 0):

[(('PERSON', 1, ['Misha', 'Black']), 42), (('PERSON', 2, ['Scott', 'Brownrigg']), 83)]

KEYWORDS listed with position of each:

[(('KEYWORD', 1, 'be'), 7), (('KEYWORD', 2, 'be'), 28)]

NE(s) in the sentence with contribution of each KEYWORD to NE score:

NE is (('PERSON', 1, ['Misha', 'Black']), 42) posn is 42

Contribution of (('KEYWORD', 1, 'be'), 7) is 35

Contribution of (('KEYWORD', 2, 'be'), 28) is 14

So, score for (('PERSON', 1, ['Misha', 'Black']), 42) is 49

NE is (('PERSON', 2, ['Scott', 'Brownrigg']), 83) posn is 83

Contribution of (('KEYWORD', 1, 'be'), 7) is 76

Contribution of (('KEYWORD', 2, 'be'), 28) is 55

So, score for (('PERSON', 2, ['Scott', 'Brownrigg']), 83) is 131

(Lower NE score means better match but zero score means no KEYWORDs in sentence.)

--------------------------------------------------------------------------

original\_query:

Which city has the best beaches?

search\_tokens extracted:

['which', 'city', 'have', 'the', 'good', 'beach', '?']

query\_type\_json: unknown

query\_type\_spacy: PERSON

Elastic query submitted with search\_tokens\_string:

{'multi\_match': {'query': 'which city have the good beach ?', 'fields': [], 'type': 'best\_fields'}}

result\_text\_list:

["County Line Beach is beach park located in Solromar, an unincorporated community of Ventura County. This stretch of sandy beach is easily accessible from the adjacent Pacific Coast Highway. This popular surf spot is administered as part of Leo Carrillo State Park. The beach lies within the south coast portion of the Ventura County amidst a mostly rugged coastline that is some of the most striking and diverse coastal terrain in the County. The beach lies at the mouth of a canyon in the Santa Monica Mountains that hug the shore along the Ventura County's south coast."]

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Looking at a para, searching for answers:

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Named Entities recognised and search\_tokens marked as KEYWORD:

[('PERSON', 1, ['County', 'Line', 'Beach']), 'be', ('KEYWORD', 1, 'beach'), 'park', 'locate', 'in', 'Solromar', ',', 'an', 'unincorporated', 'community', 'of', 'Ventura', 'County', '.', 'this', 'stretch', 'of', 'sandy', ('KEYWORD', 2, 'beach'), 'be', 'easily', 'accessible', 'from', ('KEYWORD', 3, 'the'), 'adjacent', 'Pacific', 'Coast', 'Highway', '.', 'this', 'popular', 'surf', 'spot', 'be', 'administer', 'as', 'part', 'of', 'Leo', 'Carrillo', 'State', 'Park', '.', ('KEYWORD', 4, 'the'), ('KEYWORD', 5, 'beach'), 'lie', 'within', ('KEYWORD', 6, 'the'), 'south', 'coast', 'portion', 'of', ('KEYWORD', 7, 'the'), 'Ventura', 'County', 'amidst', 'a', 'mostly', 'rugged', 'coastline', 'that', 'be', 'some', 'of', ('KEYWORD', 8, 'the'), 'most', 'striking', 'and', 'diverse', 'coastal', 'terrain', 'in', ('KEYWORD', 9, 'the'), 'County', '.', ('KEYWORD', 10, 'the'), ('KEYWORD', 11, 'beach'), 'lie', 'at', ('KEYWORD', 12, 'the'), 'mouth', 'of', 'a', 'canyon', 'in', ('KEYWORD', 13, 'the'), 'Santa', 'Monica', 'Mountains', 'that', 'hug', ('KEYWORD', 14, 'the'), 'shore', 'along', ('KEYWORD', 15, 'the'), 'Ventura', 'County', "'s", 'south', 'coast', '.']

Named Entities listed with position of each (1st word is number 0):

[(('PERSON', 1, ['County', 'Line', 'Beach']), 0)]

KEYWORDS listed with position of each:

[(('KEYWORD', 1, 'beach'), 2), (('KEYWORD', 2, 'beach'), 19), (('KEYWORD', 3, 'the'), 24), (('KEYWORD', 4, 'the'), 44), (('KEYWORD', 5, 'beach'), 45), (('KEYWORD', 6, 'the'), 48), (('KEYWORD', 7, 'the'), 53), (('KEYWORD', 8, 'the'), 65), (('KEYWORD', 9, 'the'), 73), (('KEYWORD', 10, 'the'), 76), (('KEYWORD', 11, 'beach'), 77), (('KEYWORD', 12, 'the'), 80), (('KEYWORD', 13, 'the'), 86), (('KEYWORD', 14, 'the'), 92), (('KEYWORD', 15, 'the'), 95)]

NE(s) in the sentence with contribution of each KEYWORD to NE score:

NE is (('PERSON', 1, ['County', 'Line', 'Beach']), 0) posn is 0

Contribution of (('KEYWORD', 1, 'beach'), 2) is 2

Contribution of (('KEYWORD', 2, 'beach'), 19) is 19

Contribution of (('KEYWORD', 3, 'the'), 24) is 24

Contribution of (('KEYWORD', 4, 'the'), 44) is 44

Contribution of (('KEYWORD', 5, 'beach'), 45) is 45

Contribution of (('KEYWORD', 6, 'the'), 48) is 48

Contribution of (('KEYWORD', 7, 'the'), 53) is 53

Contribution of (('KEYWORD', 8, 'the'), 65) is 65

Contribution of (('KEYWORD', 9, 'the'), 73) is 73

Contribution of (('KEYWORD', 10, 'the'), 76) is 76

Contribution of (('KEYWORD', 11, 'beach'), 77) is 77

Contribution of (('KEYWORD', 12, 'the'), 80) is 80

Contribution of (('KEYWORD', 13, 'the'), 86) is 86

Contribution of (('KEYWORD', 14, 'the'), 92) is 92

Contribution of (('KEYWORD', 15, 'the'), 95) is 95

So, score for (('PERSON', 1, ['County', 'Line', 'Beach']), 0) is 879

(Lower NE score means better match but zero score means no KEYWORDs in sentence.)

--------------------------------------------------------------------------

original\_query:

which is the short eared dog?

search\_tokens extracted:

['which', 'be', 'the', 'short', 'eared', 'dog', '?']

query\_type\_json: unknown

query\_type\_spacy: PERSON

Elastic query submitted with search\_tokens\_string:

{'multi\_match': {'query': 'which be the short eared dog ?', 'fields': [], 'type': 'best\_fields'}}

result\_text\_list:

['The short-eared dog (Atelocynus microtis), also known as the short-eared zorro or small-eared dog, is a unique and elusive canid species endemic to the Amazonian basin. This is the only species assigned to the genus Atelocynus.']

=========================================

Looking at a para, searching for answers:

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Named Entities recognised and search\_tokens marked as KEYWORD:

[('KEYWORD', 1, 'the'), ('KEYWORD', 2, 'short'), '-', 'eare', ('KEYWORD', 3, 'dog'), '(', 'Atelocynus', 'microtis', ')', ',', 'also', 'know', 'as', ('KEYWORD', 4, 'the'), ('KEYWORD', 5, 'short'), '-', 'eare', 'zorro', 'or', 'small', '-', 'eare', ('KEYWORD', 6, 'dog'), ',', ('KEYWORD', 7, 'be'), 'a', 'unique', 'and', 'elusive', 'canid', 'specie', 'endemic', 'to', ('KEYWORD', 8, 'the'), 'amazonian', 'basin', '.', 'this', ('KEYWORD', 9, 'be'), ('KEYWORD', 10, 'the'), 'only', 'specie', 'assign', 'to', ('KEYWORD', 11, 'the'), 'genus', 'Atelocynus', '.']

Named Entities listed with position of each (1st word is number 0):

[]

KEYWORDS listed with position of each:

[(('KEYWORD', 1, 'the'), 0), (('KEYWORD', 2, 'short'), 1), (('KEYWORD', 3, 'dog'), 4), (('KEYWORD', 4, 'the'), 13), (('KEYWORD', 5, 'short'), 14), (('KEYWORD', 6, 'dog'), 22), (('KEYWORD', 7, 'be'), 24), (('KEYWORD', 8, 'the'), 33), (('KEYWORD', 9, 'be'), 38), (('KEYWORD', 10, 'the'), 39), (('KEYWORD', 11, 'the'), 44)]

NE(s) in the sentence with contribution of each KEYWORD to NE score:

(Lower NE score means better match but zero score means no KEYWORDs in sentence.)

--------------------------------------------------------------------------

original\_query:

In which city is the Crypto.com Arena located?

search\_tokens extracted:

['in', 'which', 'city', 'be', 'the', 'Crypto.com', 'Arena', 'locate', '?']

query\_type\_json: unknown

query\_type\_spacy: PERSON

Elastic query submitted with search\_tokens\_string:

{'multi\_match': {'query': 'in which city be the Crypto.com Arena locate ?', 'fields': [], 'type': 'best\_fields'}}

result\_text\_list:

['Crypto.com Arena is a multi-purpose indoor arena in Downtown Los Angeles. The main attraction of the L.A. Live development, it is located next to the Los Angeles Convention Center complex along Figueroa Street. The arena opened on October 17, 1999; it was previously known as Staples Center until December 2021 when Crypto.com acquired the naming rights. The arena is the flagship attraction of locally-based Anschutz Entertainment Group.']

=========================================

Looking at a para, searching for answers:

=========================================

Named Entities recognised and search\_tokens marked as KEYWORD:

[('KEYWORD', 1, 'Crypto.com'), ('KEYWORD', 2, 'Arena'), ('KEYWORD', 3, 'be'), 'a', 'multi', '-', 'purpose', 'indoor', 'arena', ('KEYWORD', 4, 'in'), 'Downtown', 'Los', 'Angeles', '.', ('KEYWORD', 5, 'the'), 'main', 'attraction', 'of', ('KEYWORD', 6, 'the'), 'L.A.', 'Live', 'development', ',', 'it', ('KEYWORD', 7, 'be'), ('KEYWORD', 8, 'locate'), 'next', 'to', ('KEYWORD', 9, 'the'), 'Los', 'Angeles', 'Convention', 'Center', 'complex', 'along', 'Figueroa', 'Street', '.', ('KEYWORD', 10, 'the'), 'arena', 'open', 'on', 'October', '17', ',', '1999', ';', 'it', ('KEYWORD', 11, 'be'), 'previously', 'know', 'as', ('PERSON', 1, ['Staples', 'Center']), 'until', 'December', '2021', 'when', ('KEYWORD', 12, 'Crypto.com'), 'acquire', ('KEYWORD', 13, 'the'), 'naming', 'right', '.', ('KEYWORD', 14, 'the'), 'arena', ('KEYWORD', 15, 'be'), ('KEYWORD', 16, 'the'), 'flagship', 'attraction', 'of', 'locally', '-', 'base', 'Anschutz', 'Entertainment', 'Group', '.']

Named Entities listed with position of each (1st word is number 0):

[(('PERSON', 1, ['Staples', 'Center']), 52)]

KEYWORDS listed with position of each:

[(('KEYWORD', 1, 'Crypto.com'), 0), (('KEYWORD', 2, 'Arena'), 1), (('KEYWORD', 3, 'be'), 2), (('KEYWORD', 4, 'in'), 9), (('KEYWORD', 5, 'the'), 14), (('KEYWORD', 6, 'the'), 18), (('KEYWORD', 7, 'be'), 24), (('KEYWORD', 8, 'locate'), 25), (('KEYWORD', 9, 'the'), 28), (('KEYWORD', 10, 'the'), 38), (('KEYWORD', 11, 'be'), 48), (('KEYWORD', 12, 'Crypto.com'), 57), (('KEYWORD', 13, 'the'), 59), (('KEYWORD', 14, 'the'), 63), (('KEYWORD', 15, 'be'), 65), (('KEYWORD', 16, 'the'), 66)]

NE(s) in the sentence with contribution of each KEYWORD to NE score:

NE is (('PERSON', 1, ['Staples', 'Center']), 52) posn is 52

Contribution of (('KEYWORD', 1, 'Crypto.com'), 0) is 52

Contribution of (('KEYWORD', 2, 'Arena'), 1) is 51

Contribution of (('KEYWORD', 3, 'be'), 2) is 50

Contribution of (('KEYWORD', 4, 'in'), 9) is 43

Contribution of (('KEYWORD', 5, 'the'), 14) is 38

Contribution of (('KEYWORD', 6, 'the'), 18) is 34

Contribution of (('KEYWORD', 7, 'be'), 24) is 28

Contribution of (('KEYWORD', 8, 'locate'), 25) is 27

Contribution of (('KEYWORD', 9, 'the'), 28) is 24

Contribution of (('KEYWORD', 10, 'the'), 38) is 14

Contribution of (('KEYWORD', 11, 'be'), 48) is 4

Contribution of (('KEYWORD', 12, 'Crypto.com'), 57) is 5

Contribution of (('KEYWORD', 13, 'the'), 59) is 7

Contribution of (('KEYWORD', 14, 'the'), 63) is 11

Contribution of (('KEYWORD', 15, 'be'), 65) is 13

Contribution of (('KEYWORD', 16, 'the'), 66) is 14

So, score for (('PERSON', 1, ['Staples', 'Center']), 52) is 415

(Lower NE score means better match but zero score means no KEYWORDs in sentence.)

--------------------------------------------------------------------------

original\_query:

which is the Japanese raccoon dog?

search\_tokens extracted:

['which', 'be', 'the', 'japanese', 'raccoon', 'dog', '?']

query\_type\_json: unknown

query\_type\_spacy: PERSON

Elastic query submitted with search\_tokens\_string:

{'multi\_match': {'query': 'which be the japanese raccoon dog ?', 'fields': [], 'type': 'best\_fields'}}

result\_text\_list:

['The Japanese raccoon dog (Nyctereutes viverrinus), is a species of canid endemic to Japan. It is one of two species in the genus Nyctereutes, alongside the common raccoon dog (N. procyonoides), of which it was traditionally thought to be a subspecies (Nyctereutes procyonoides viverrinus).']

=========================================

Looking at a para, searching for answers:

=========================================

Named Entities recognised and search\_tokens marked as KEYWORD:

[('KEYWORD', 1, 'the'), ('KEYWORD', 2, 'japanese'), ('KEYWORD', 3, 'raccoon'), ('KEYWORD', 4, 'dog'), '(', 'Nyctereutes', 'viverrinus', ')', ',', ('KEYWORD', 5, 'be'), 'a', 'species', 'of', 'canid', 'endemic', 'to', 'Japan', '.', 'it', ('KEYWORD', 6, 'be'), 'one', 'of', 'two', 'specie', 'in', ('KEYWORD', 7, 'the'), 'genus', 'Nyctereutes', ',', 'alongside', ('KEYWORD', 8, 'the'), 'common', ('KEYWORD', 9, 'raccoon'), ('KEYWORD', 10, 'dog'), '(', 'N.', 'procyonoide', ')', ',', 'of', ('KEYWORD', 11, 'which'), 'it', ('KEYWORD', 12, 'be'), 'traditionally', 'think', 'to', ('KEYWORD', 13, 'be'), 'a', 'subspecie', '(', 'Nyctereutes', 'procyonoide', 'viverrinus', ')', '.']

Named Entities listed with position of each (1st word is number 0):

[]

KEYWORDS listed with position of each:

[(('KEYWORD', 1, 'the'), 0), (('KEYWORD', 2, 'japanese'), 1), (('KEYWORD', 3, 'raccoon'), 2), (('KEYWORD', 4, 'dog'), 3), (('KEYWORD', 5, 'be'), 9), (('KEYWORD', 6, 'be'), 19), (('KEYWORD', 7, 'the'), 25), (('KEYWORD', 8, 'the'), 30), (('KEYWORD', 9, 'raccoon'), 32), (('KEYWORD', 10, 'dog'), 33), (('KEYWORD', 11, 'which'), 40), (('KEYWORD', 12, 'be'), 42), (('KEYWORD', 13, 'be'), 46)]

NE(s) in the sentence with contribution of each KEYWORD to NE score:

(Lower NE score means better match but zero score means no KEYWORDs in sentence.)

--------------------------------------------------------------------------

original\_query:

What are some dog species?

search\_tokens extracted:

['what', 'be', 'some', 'dog', 'specie', '?']

query\_type\_json: unknown

query\_type\_spacy: PERSON

Elastic query submitted with search\_tokens\_string:

{'multi\_match': {'query': 'what be some dog specie ?', 'fields': [], 'type': 'best\_fields'}}

result\_text\_list:

['Malala Andrialavidrazana (born 1971) is an artist and photographer from Madagascar, who lives in Paris. She has worked and exhibited internationally, and had two books of her photography published.']

=========================================

Looking at a para, searching for answers:

=========================================

Named Entities recognised and search\_tokens marked as KEYWORD:

[('PERSON', 1, ['Malala', 'Andrialavidrazana']), '(', 'bear', '1971', ')', ('KEYWORD', 1, 'be'), 'an', 'artist', 'and', 'photographer', 'from', 'Madagascar', ',', 'who', 'live', 'in', 'Paris', '.', 'she', 'have', 'work', 'and', 'exhibit', 'internationally', ',', 'and', 'have', 'two', 'book', 'of', 'her', 'photography', 'publish', '.']

Named Entities listed with position of each (1st word is number 0):

[(('PERSON', 1, ['Malala', 'Andrialavidrazana']), 0)]

KEYWORDS listed with position of each:

[(('KEYWORD', 1, 'be'), 5)]

NE(s) in the sentence with contribution of each KEYWORD to NE score:

NE is (('PERSON', 1, ['Malala', 'Andrialavidrazana']), 0) posn is 0

Contribution of (('KEYWORD', 1, 'be'), 5) is 5

So, score for (('PERSON', 1, ['Malala', 'Andrialavidrazana']), 0) is 5

(Lower NE score means better match but zero score means no KEYWORDs in sentence.)**Analysis:**

**1. Best scoring answer:** Alan Clark

**2. Correct/Incorrect**: Correct

**3. Reason Correct/Reason Incorrect**: There is only one NE candidate in this case.

## Overall Performance Results (Task 6)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Num** | **Original\_Query** | **Answer Given** | **Gold Standard List** | **Correct/**  **Incorrect** |
| 1 | Who is the keyboardist in the band Dire Straits | Alan Clark | [ "Alan Clark", "Guy Fletcher" ] | Correct |
| 2 | Where did Dire Straits have their first concert | London | [ "Glasgow" ] | Incorrect |
| 3 |  |  |  |  |
| 4 |  |  |  |  |
| 5 |  |  |  |  |
| 6 |  |  |  |  |
| 7 |  |  |  |  |
| 8 |  |  |  |  |
| 9 |  |  |  |  |
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| 13 |  |  |  |  |
| 14 |  |  |  |  |
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| 16 |  |  |  |  |
| 17 |  |  |  |  |
| 18 |  |  |  |  |
| 19 |  |  |  |  |
| 20 |  |  |  |  |

In the video (not here) mention a few reasons why the system did not work correctly for some queries. See assignment\_2.docx for more details.

Note, each project is different, your system will not be able to get all answers correct, but hopefully you can get at least one or two correct.

Correct or not, you must do a careful analysis in the section above - Transcript Task 5 - to explain why your system was not successful in certain cases.