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Mohamed Yahya, Steven Whang,
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insider.foxnews.com/.../defense-official-military-advised-obama-not-ma... ▾
Jun 6, 2014 - A senior Defense official tells Fox News that military officials **advised** President **Obama** not to make the prisoner swap, calling it "like handing ...

Meet the Controversial Muslim Leader Who Has **Advised the ...**
www.nationaljournal.com/.../meet-the-controversial-mus... ▾ National Journal ▾
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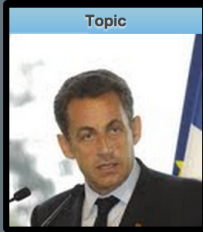
Valerie Jarrett - Wikipedia, the free encyclopedia
en.wikipedia.org/wiki/Valerie_Jarrett ▾ Wikipedia ▾
Valerie Bowman Jarrett (born November 14, 1956) is a Senior **Advisor** to the Jarrett is one of President **Obama's** longest serving **advisers** and confidantes and ...
[James E. Bowman](#) - [Barbara T. Bowman](#) - [Vernon Jarrett](#)

Senior **Advisor to the President of the United States ...**
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Senior **Advisor** is a title used within the Executive Branch of the United States ... Rand Beers · District of Columbia, December 23, 2013, present, Barack **Obama** ...
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Nicolas Sarkozy^{en}

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Nicolas Sarkozy is a French politician who served as the 23rd President of France from 16 May 2007 until 15 May 2012. Before his presidency, he was the leader of the Union for a Popular Movement. Under Jacques Chirac's presidency he served as Minister of the Interior in Jean-Pierre Raffarin's first two governments, then was appointed Minister of Finances in Raffarin's last government and again Minister of the Interior in Dominique de Villepin's government. Sarkozy was also president of the General council of the Hauts-de-Seine department from 2004 to 2007 and mayor of Neuilly-sur-Seine, one of the wealthiest communes of France, from 1983 to 2002. He was Minister of the Budget in the government of Édouard Balladur during François Mitterrand's last term. In foreign affairs, he promised a strengthening of the entente cordiale with the United Kingdom and closer cooperation with the United States. During his term, he faced the late-2000s financial crisis and the Arab Spring. He married Italian-French singer-songwriter Carla Bruni on 2 February 2008 at the Élysée Palace in Paris. [-]

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Nicolas Sarkozy > Ex-spouse

Marie-Dominique Culioli



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Valérie Trierweiler's memoirs are 'blow to Hollande's heart'

Telegraph.co.uk · 5 days ago

The bestselling book by President **Hollande's** jilted **ex-girlfriend** is like "an arrow in the heart" as the unpopular president struggles to win back ...

Hollande Saviour Is ECB as Ex-Partner Adds to Woes: Euro ...

Businessweek · 1 day ago

Francois Hollande bids to escape domestic trouble with Iraq ...

Telegraph.co.uk · 3 days ago

More news for hollande's ex-girlfriend

Hollande's ex tells all - CNN.com

www.cnn.com/2014/09/04/world/.../hollande-ex-girlfriend-book/ CNN ▾

Sep 4, 2014 - French President's **ex-girlfriend** reveals intimate details in new book. By Margot Haddad ... **Hollande's** ex publishes revealing book. STORY ...

Francois Hollande's ex-partner rushes to his defence after ...

news.nationalpost.com/.../francois-hollandes-ex-partner-rus... ▾ National Post ▾

Sep 5, 2014 - Francois **Hollande** made sure doctors kept his spurned **ex-girlfriend**, Valerie Trierweiler, drugged on "astronomical" amounts of tranquillisers ...

Hollande hits back at ex-girlfriend's claims that he 'doesn't ...

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Sep 5, 2014 - François **Hollande** hit back today at damaging claims by his **ex-girlfriend** Valerie Trierweiler that he "doesn't like the need" saving his wife's ...



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www.montrealgazette.com/business/imposes.../story.html The Gazette ▾

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www.winnipegfreepress.com/Business ▾ Winnipeg Free Press ▾

Sep 12, 2014 - EU sanctions target Rosneft and **Gazprom's** oil business, **banks, arms** firms and lawmakers. By: Juergen Baetz, The Associated Press.

European Union Demand Lifts **Gazprom** Earnings - The ...

www.nytimes.com/.../european-union-demand-lifts-g... The New York Times ▾

Apr 29, 2014 - **Gazprom's banking arm**, Gazprombank, is owned by the company's ...
For comparison, the price-to-earnings ratio of Gazprom's domestic ...

Focus on Politics and Economics of Russia and Eastern Europe

books.google.com/books?isbn=1600213170

Ulric R. Nichol - 2007 - Business & Economics

Hence, Gazprom all of a sudden finds itself with investment requirements ... Then, Dresdner Kleinwort Wasserstein supplied **Gazprom's banking arm** with ...

This talk is about
extracting facts
centered around
noun phrases (=attributes)

coach

president

province

banking arm

caucus chairman

foreign policy chief

state assemblyman

(Open) Information Extraction

*...Gazprom's banking arm Gazprombank
is owned by the company's pension fund...*

(Open) Information Extraction

Text

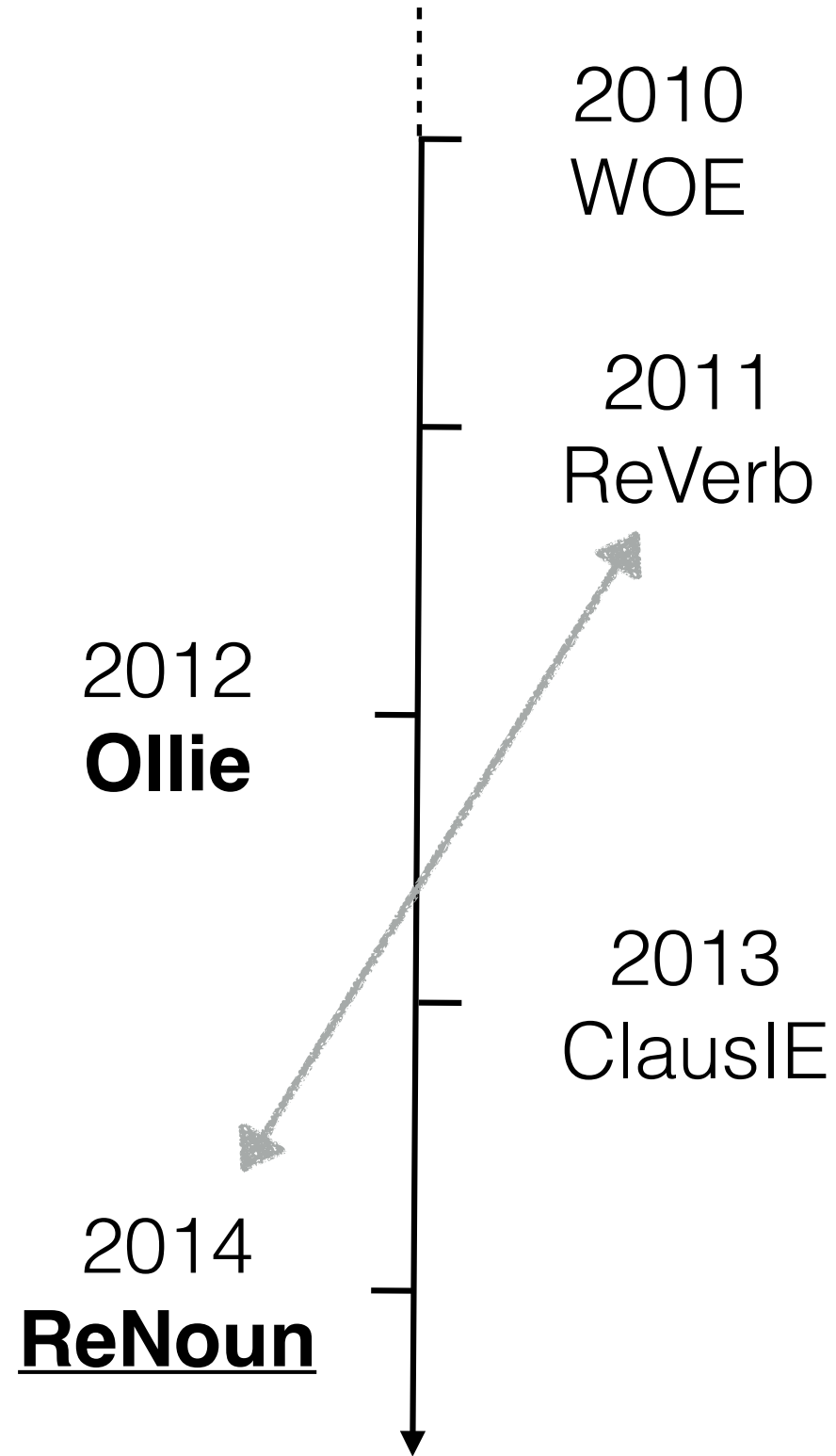
.. *Gazprom*'s *banking arm* *Gazprombank*
is owned by the company's pension fund...

Fact/
triple



Before the details:

What's missing from
the state of the art?



2010
WOE

2011
ReVerb

2012
Ollie

2013
ClausIE

2014
ReNoun

Notable exception,
check it out!
[WWW'13]



2012
Ollie

2014
ReNoun

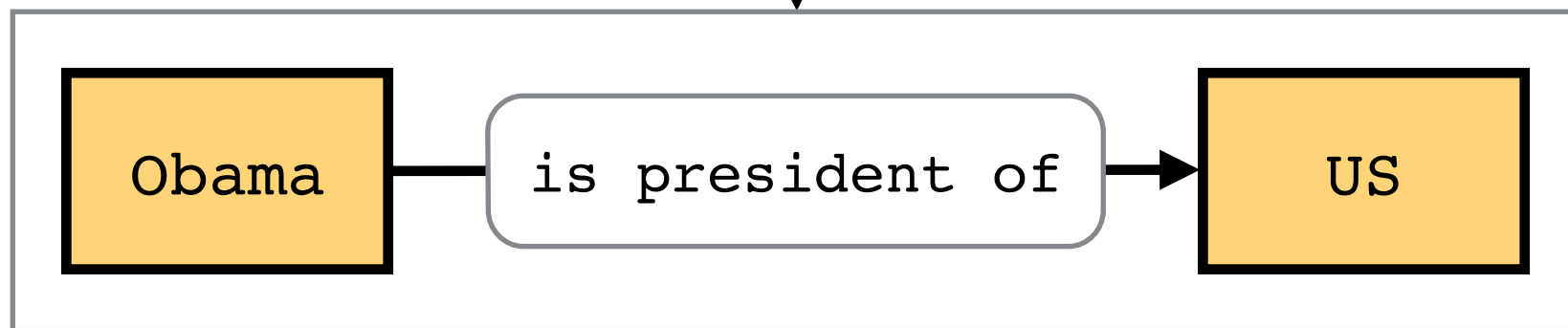
2010
WOE

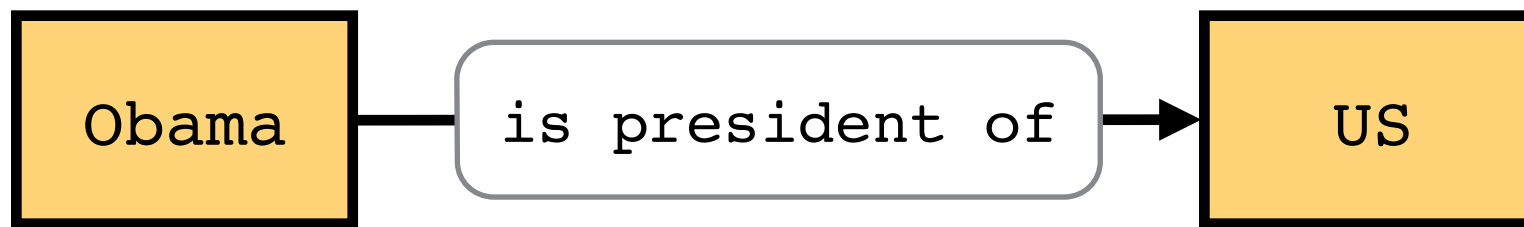
2011
ReVerb

2013
ClausIE

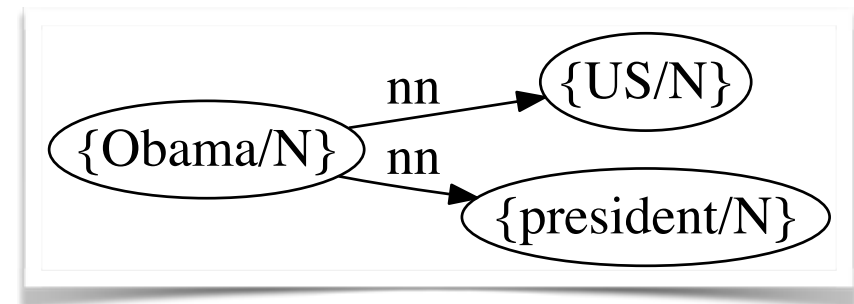
Let's see **Ollie**...

*Obama is the president of
the US.*





U.S. President Barack Obama departs the White House for Democratic Party fund raisers in New York City ...



Ollie*
[EMNLP'12]

vs.

ReNoun
[this talk]

coach

president

province

banking arm

caucus chairman

foreign policy chief

state assemblyman

coach

president

province

banking arm

caucus chairman

foreign policy chief

state assemblyman

*** Ollie handles verbs, ReNoun doesn't!**

Ollie*
[EMNLP'12]

vs.

ReNoun
[this talk]

coach

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state assemblyman

*** Ollie handles verbs, ReNoun doesn't!**

Ollie*
[EMNLP'12]

vs.

ReNoun
[this talk]

coach

president

province

 Freebase™

coach

president

province

banking arm

caucus chairman

foreign policy chief

state assemblyman

banking arm

caucus chairman

foreign policy chief

state assemblyman

*** Ollie handles verbs, ReNoun doesn't!**

Ollie*
[EMNLP'12]

vs.

ReNoun
[this talk]

Fat head (218)	coach	coach
	president	president
	province	province
Long tail (60K)	banking arm	banking arm
	caucus chairman	caucus chairman
	foreign policy chief	foreign policy chief
	state assemblyman	state assemblyman

*** Ollie handles verbs, ReNoun doesn't!**



2012
Ollie

2014
ReNoun

2010
WOE

2011
ReVerb

2013
ClausIE

2010
WOE

2011
ReVerb

2012
Ollie

2013
ClausIE

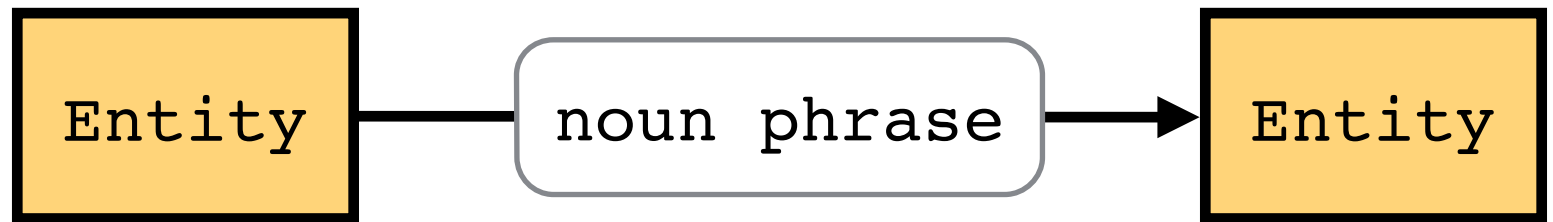
2014
ReNoun



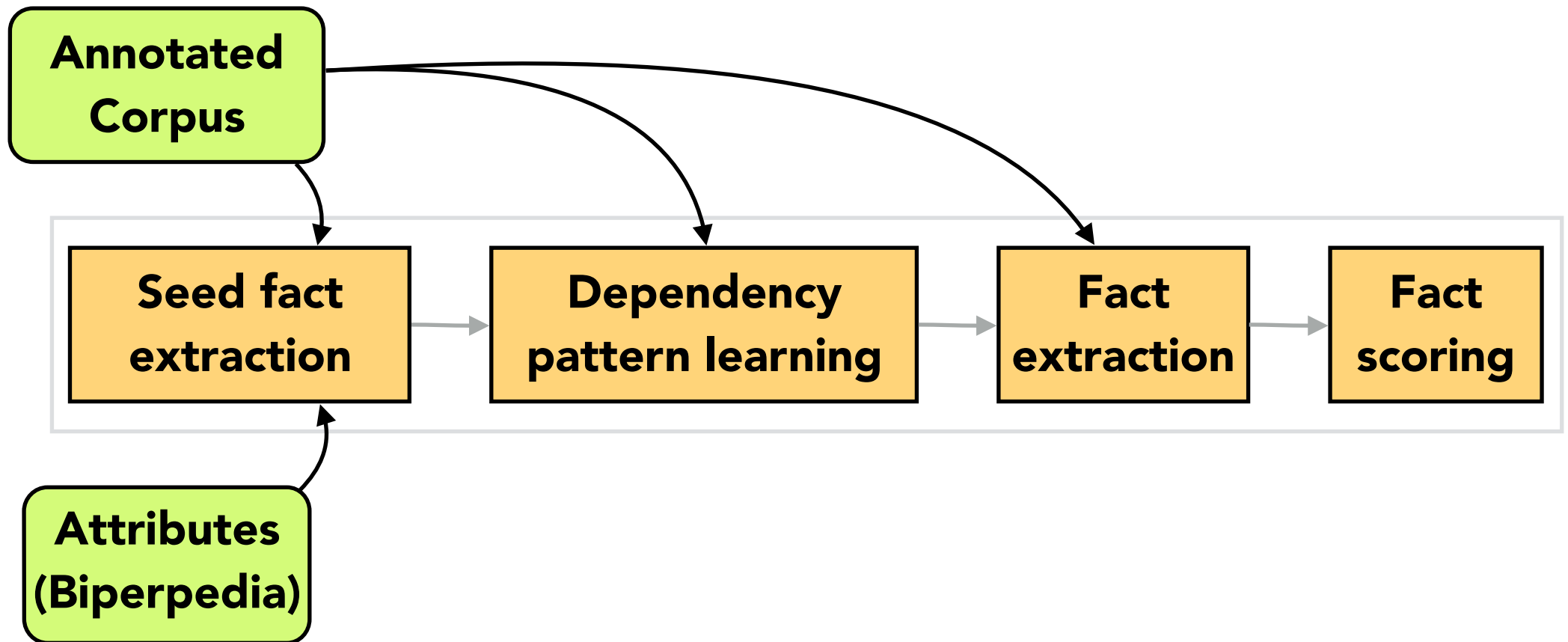
... now, **ReNoun** is upon us!

Relations are expressed
using **noun phrases**.

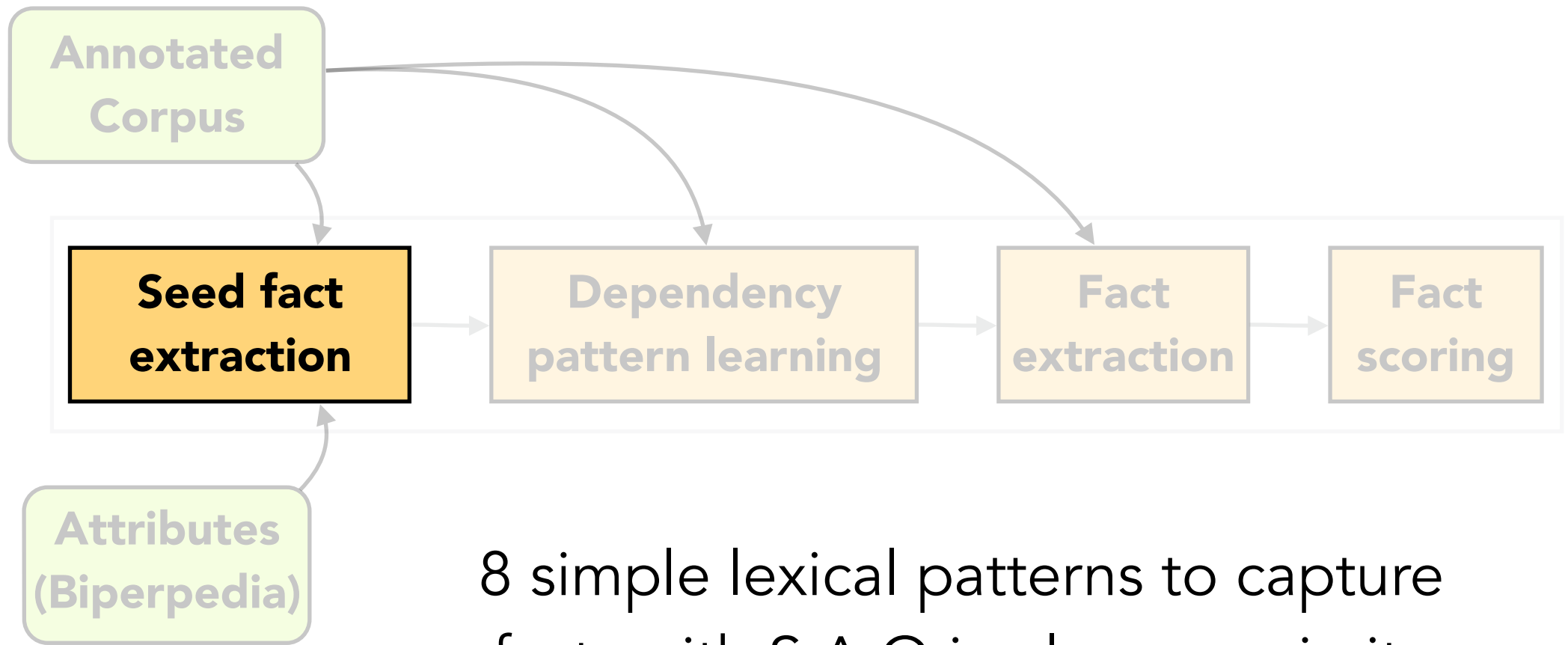
ReNoun
[this talk]



ReNoun

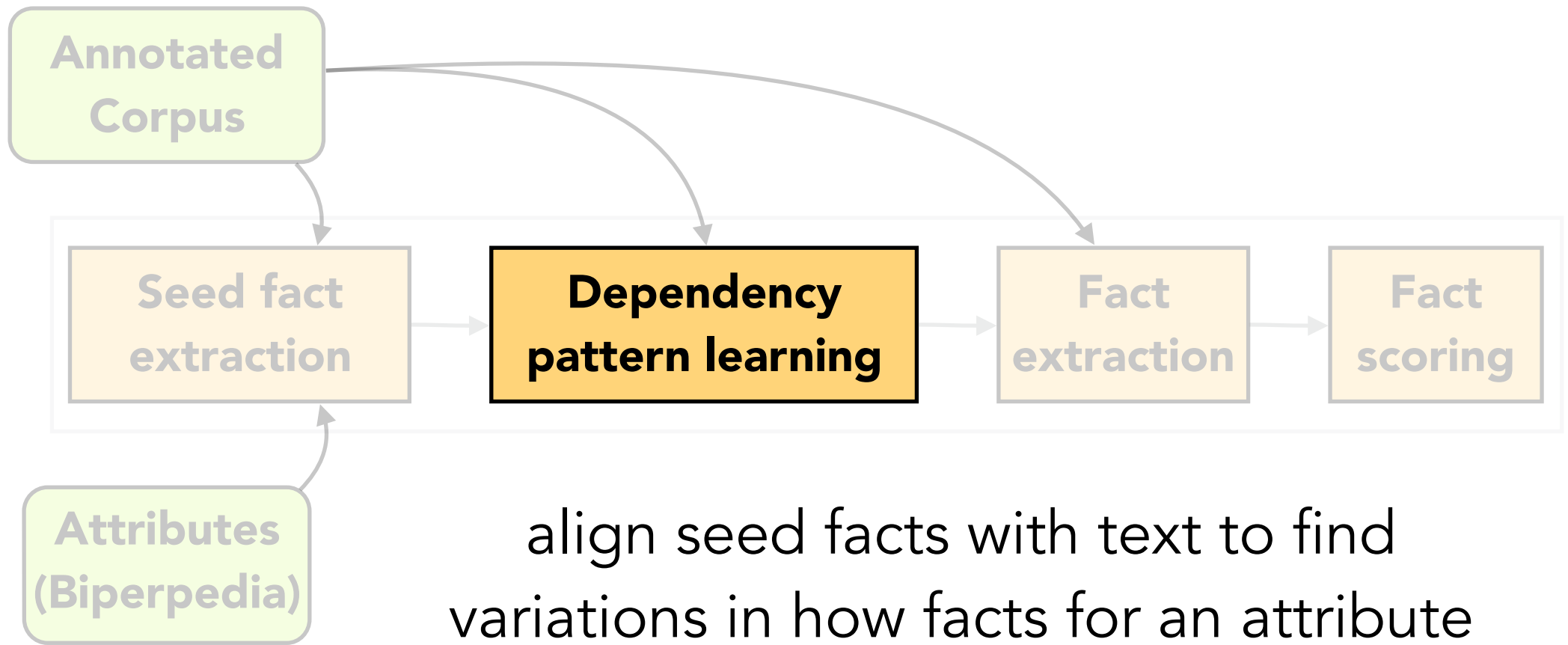


*Google CEO Larry Page
started his term in 2011.*

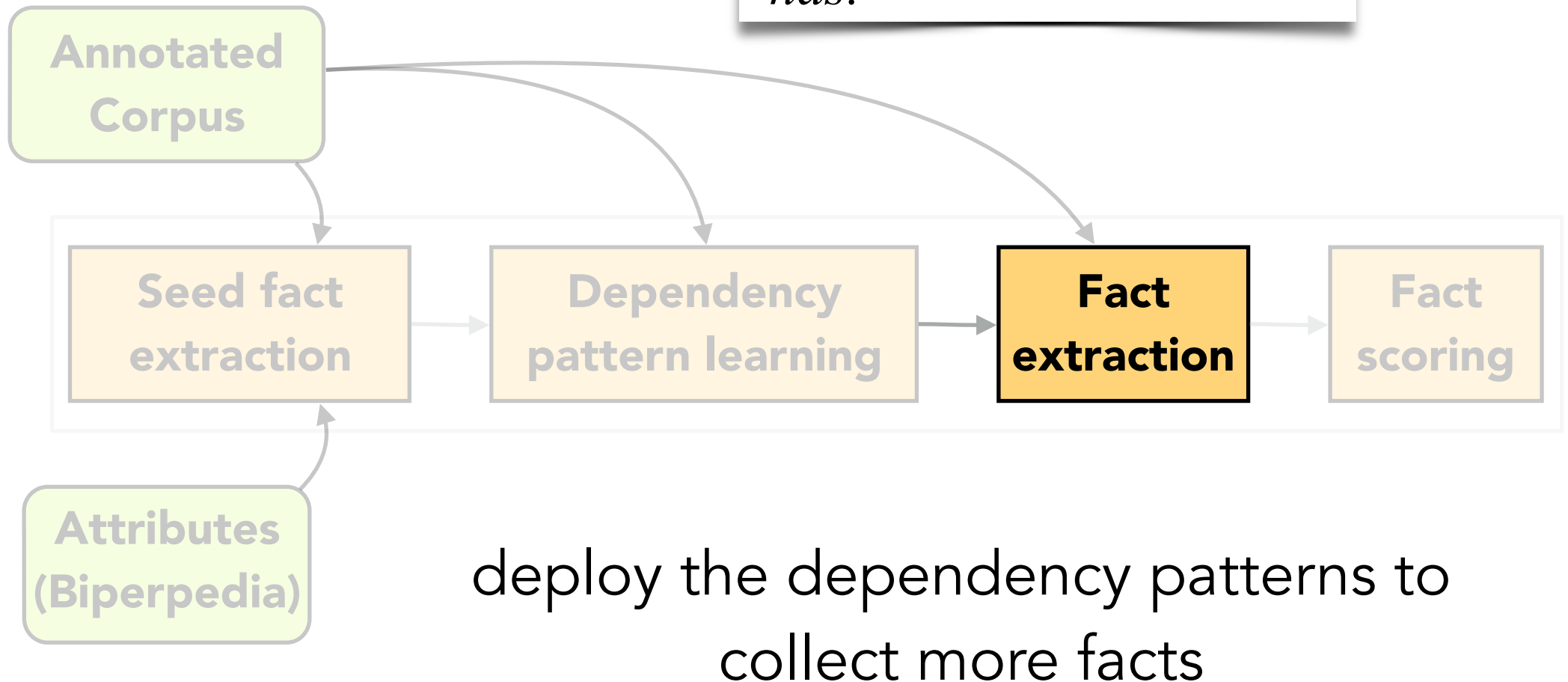


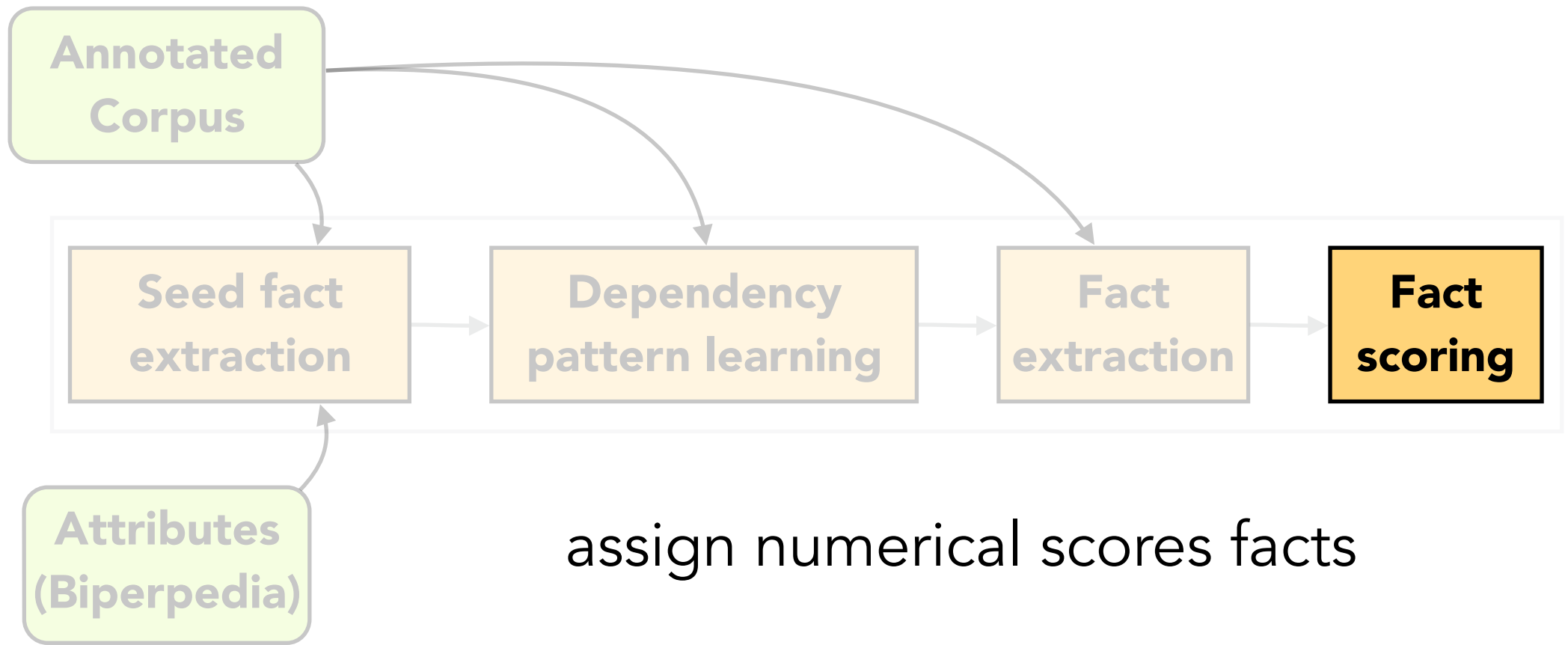
8 simple lexical patterns to capture
facts with S A O in close proximity

A CEO, like Larry Page of Google, is usually a busy person.



A CEO, like Manouchehr Moshayedi of STEC Inc., is not allowed to trade his company's stocks based on information only he has.

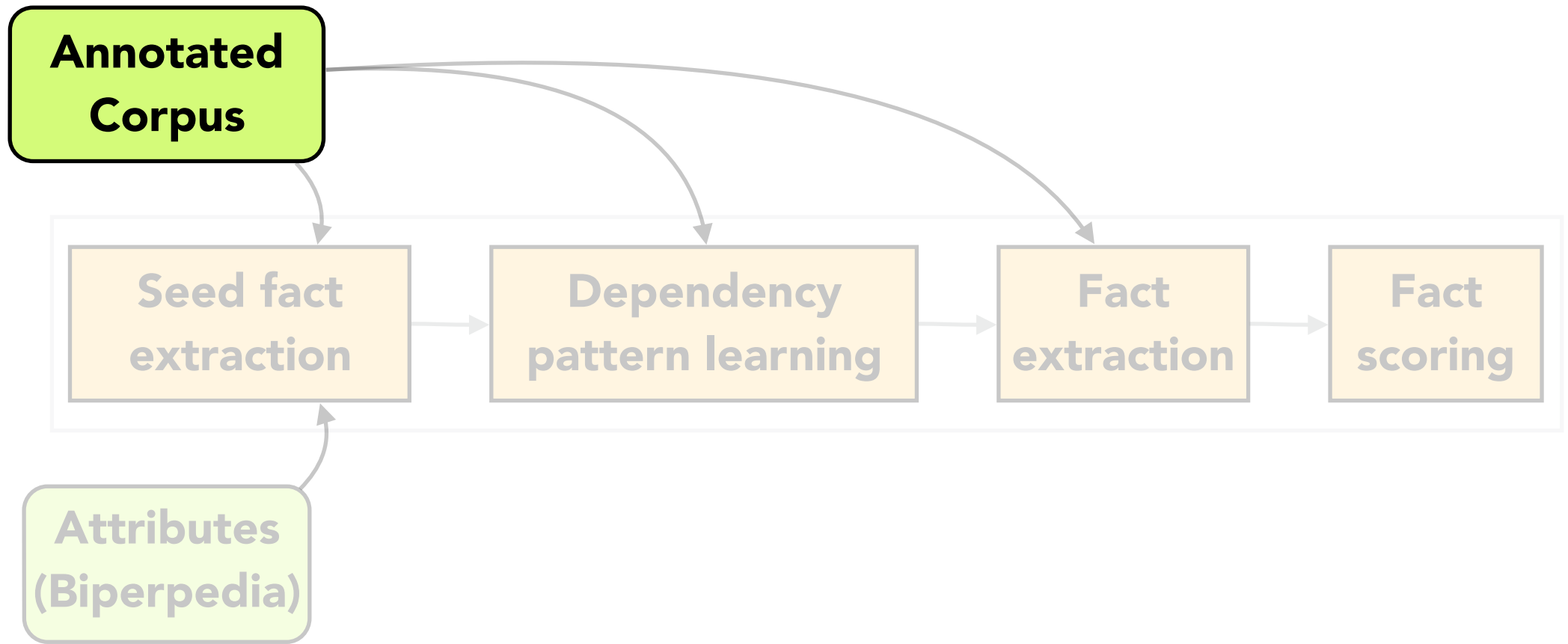





assign numerical scores facts

score \propto extracted fact is correct

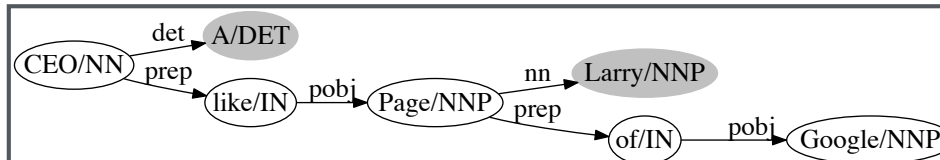
ReNoun



Annotated Corpus

1. Dependency parses,
2. Noun phrase chunks,
3. NER,
4. Coreference resolution,
5. Entity resolution to 

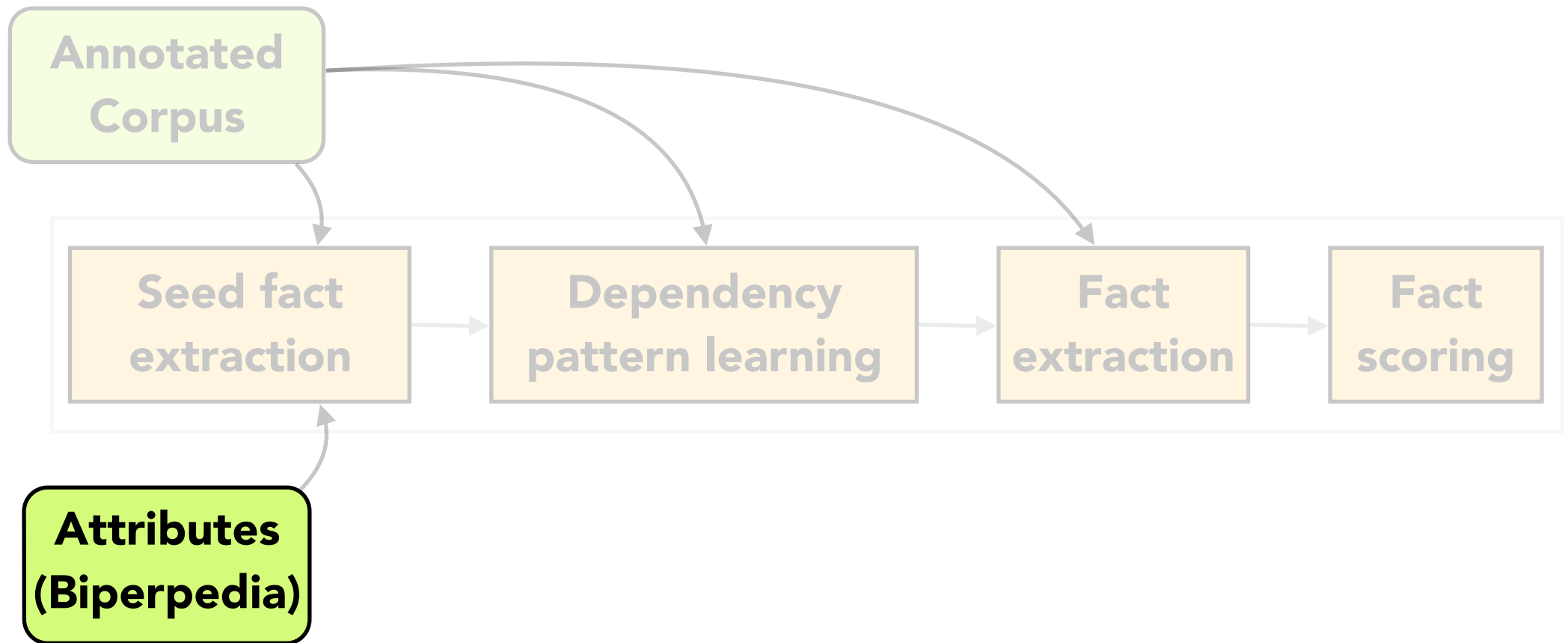
400x10⁶ news documents



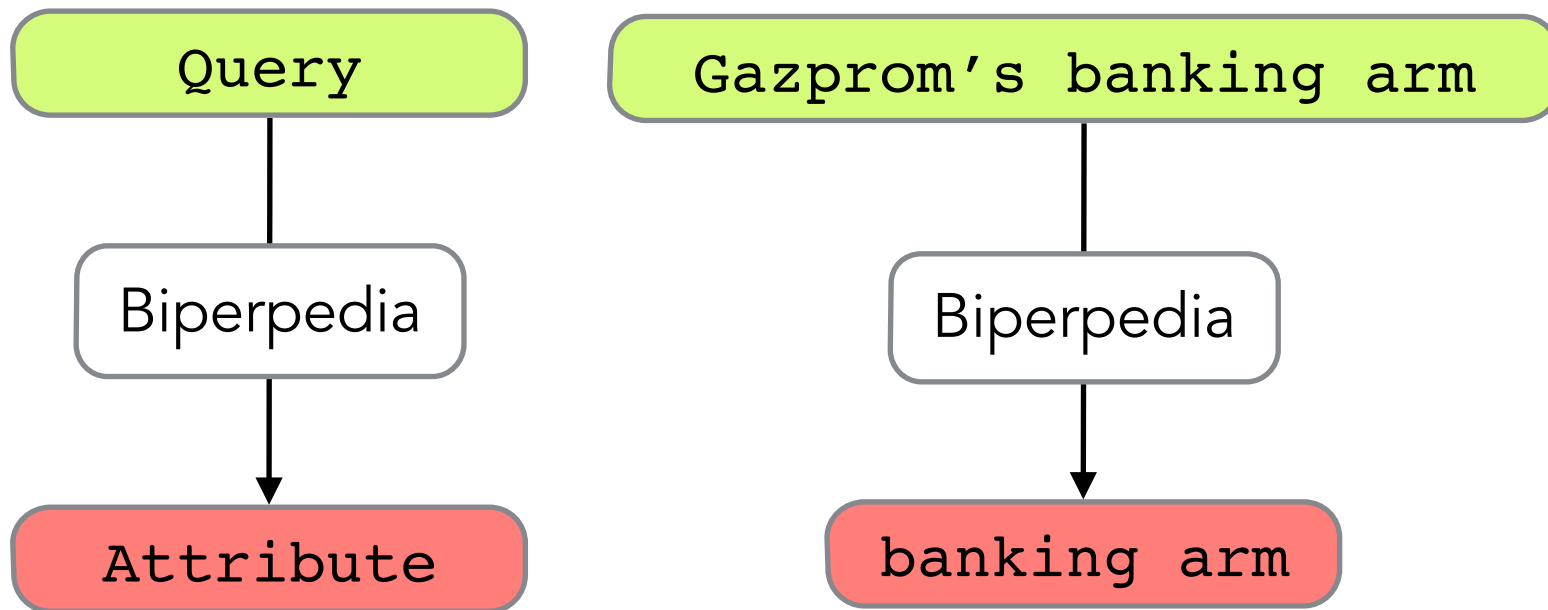
[Google]₁ [CEO]₂ [Larry Page]₂ started his term in 2011, when [he]₂ succeeded [Eric Schmidt]₃.

Cluster	Phrase	Freebase ID
1	Google	/m/045c7b
2	Larry Page, CEO, he	/m/0gjppq
3	Eric Schmidt	/m/0gjppq

ReNoun

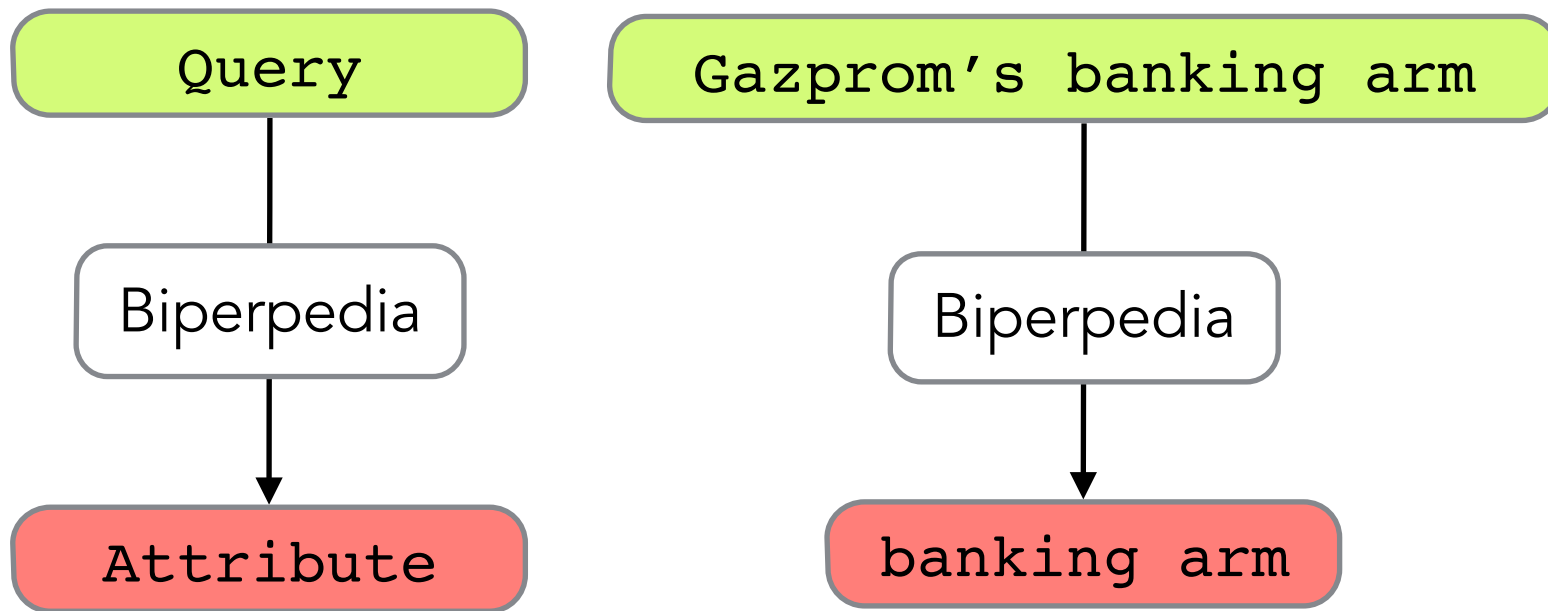


Attributes: Biperpedia [Gupta et al., VLDB'14]



for more details, see the VLDB'14 paper, also [Lee et al., ICDE'13] and [Pasca & van Durma, IJCAI'07]

Attributes: Biperpedia [Gupta et al., VLDB'14]

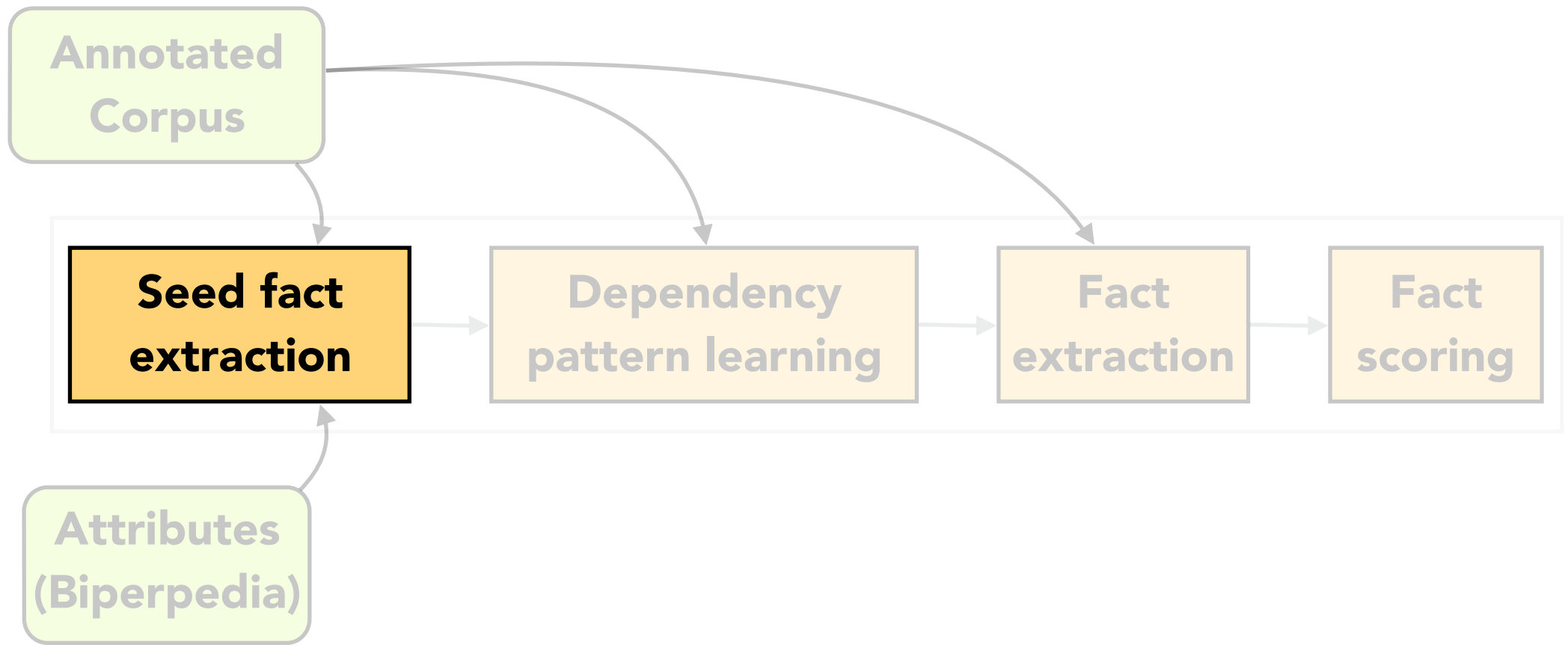


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s

for more details, see the VLDB'14 paper, also [Lee et al., ICDE'13] and [Pasca & van Durma, IJCAI'07]

ReNoun



Seed fact extraction

[Google]₁ [CEO]₂ [Larry Page]₂ started his term in 2011, when [he]₂ succeeded [Eric Schmidt]₃.

#1: A in Biperpedia & one of 8 pattern applies

#	Pattern	Example
1	the A of S, O	the CEO of Google, Larry Page
2	the A of S is O	the CEO of Google is Larry Page
3	O, S A	Larry Page, Google CEO
4	O, S's A	Larry Page, Google's CEO
5	O, [the] A of S	Larry Page, [the] CEO of Google
6	SAO	Google CEO Larry Page
7	SA, O	Google CEO, Larry Page
8	S's A, O	Google's CEO, Larry Page

Seed fact extraction

[Google]₁ [CEO]₂ [Larry Page]₂ started his term in 2011, when [he]₂ succeeded [Eric Schmidt]₃.

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7	SA, O	Google CEO, Larry Page
8	S's A, O	Google's CEO, Larry Page

Seed fact extraction

#2: A and O Corefer

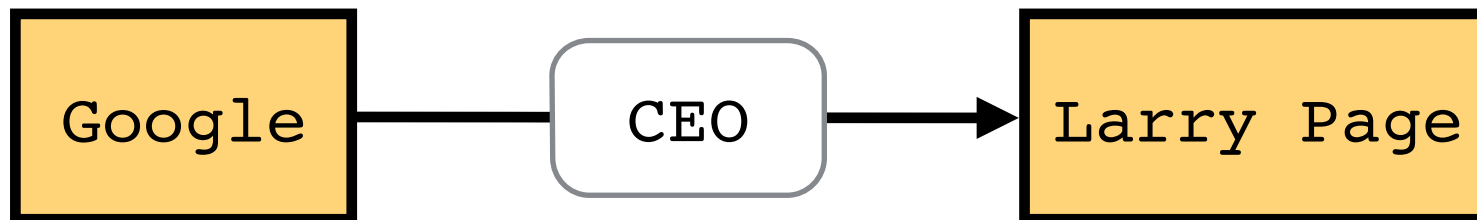
[Google]₁ [CEO]₂ [Larry Page]₂ started his term in 2011, when [he]₂ succeeded [Eric Schmidt]₃.

Cluster	Phrase	Freebase ID
1	Google	/m/045c7b
2	Larry Page, CEO, he	/m/0gjpg
3	Eric Schmidt	/m/0gjpg

Seed fact extraction

Result

*[Google]₁ [CEO]₂ [Larry Page]₂ started his term in 2011,
when [he]₂ succeeded [Eric Schmidt]₃.*



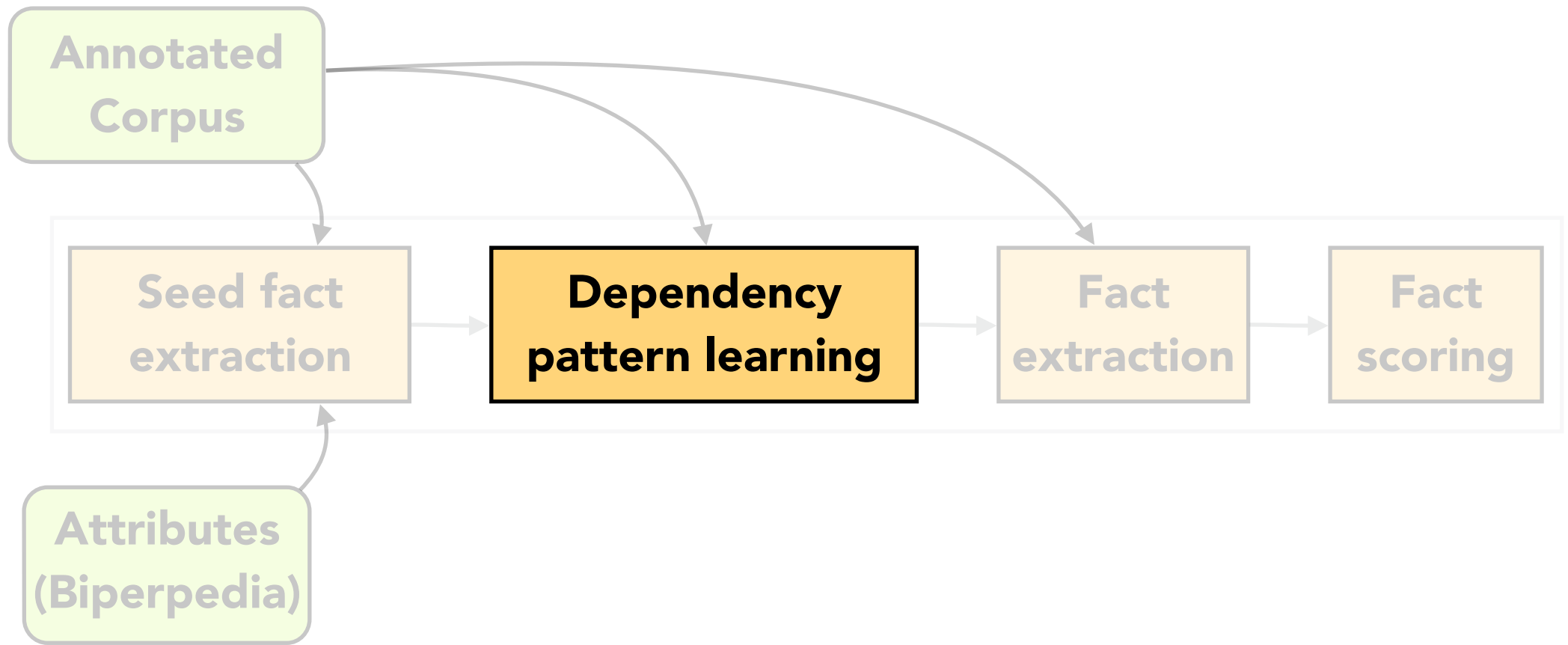
Seed fact extraction

139M Seed facts, 680K unique

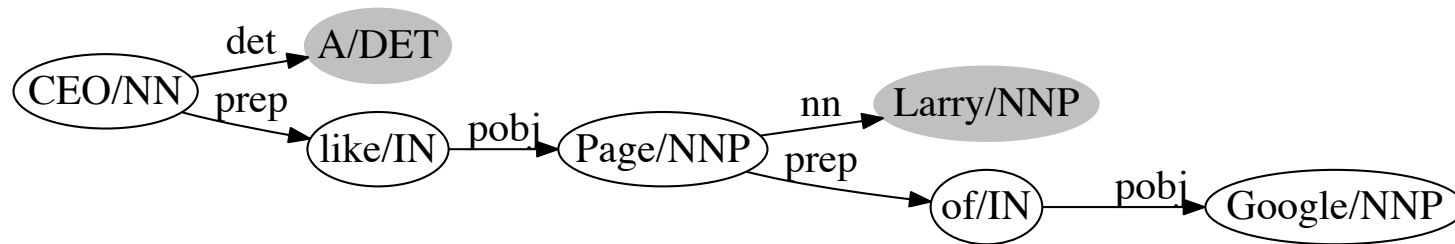
Accuracy*	
Fat head	65/100
Long tail	80/100

*random sample of 100 seed facts

ReNoun



A [CEO]₁, like [Larry Page]₂ of [Google]₃, is usually a busy person.



**Annotated
Corpus**

Google

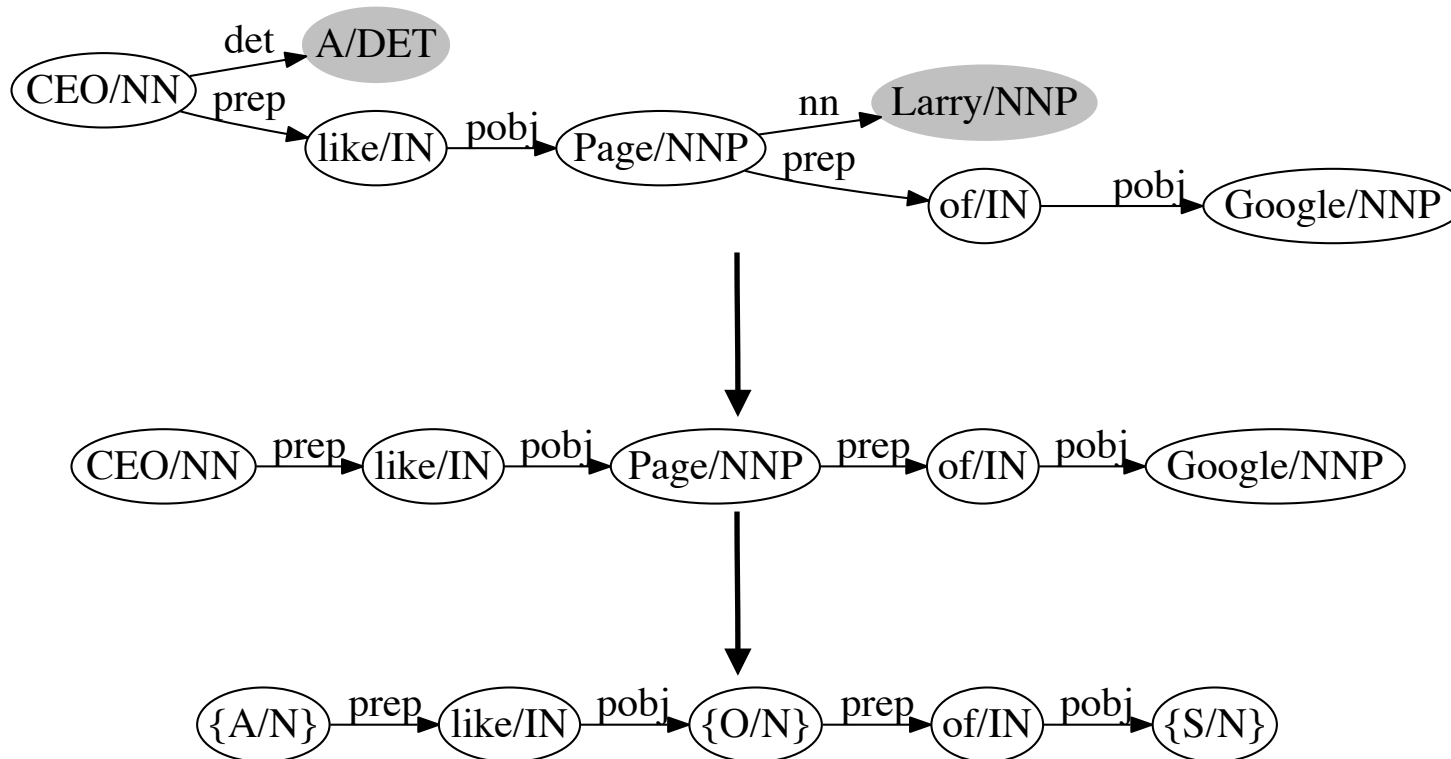
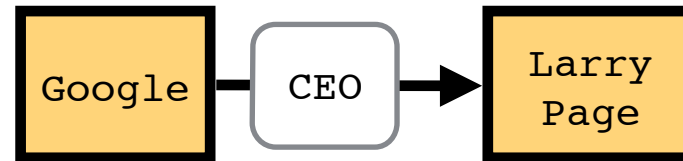
CEO

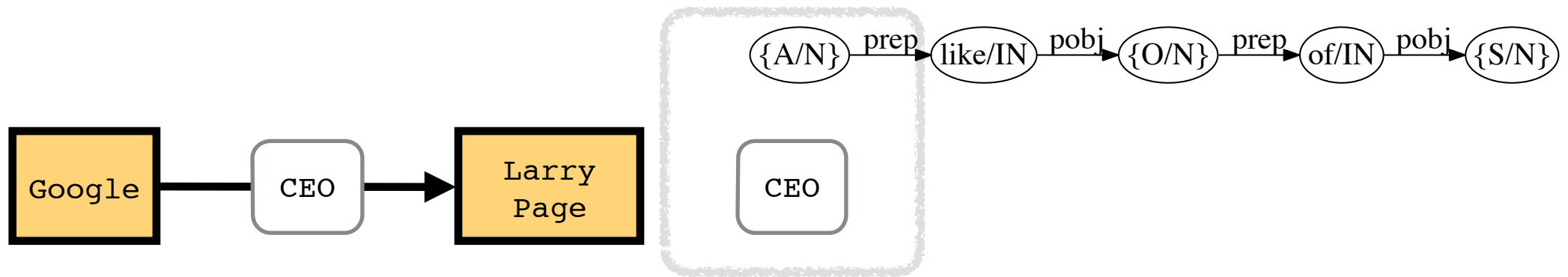
Larry
Page

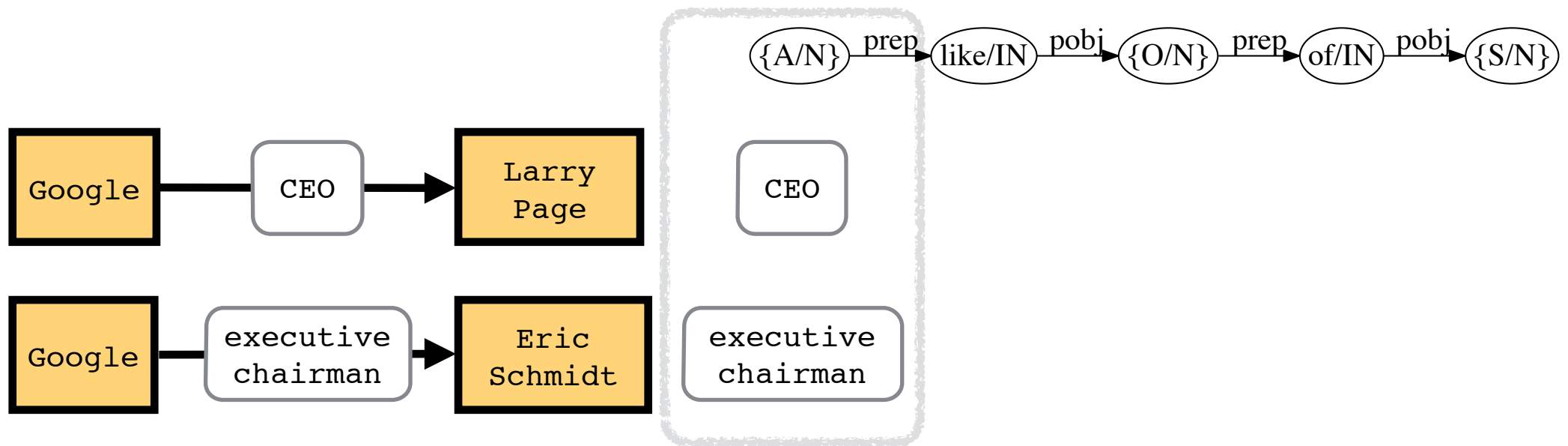
**Seed fact
extraction**

**Dependency
pattern learning**

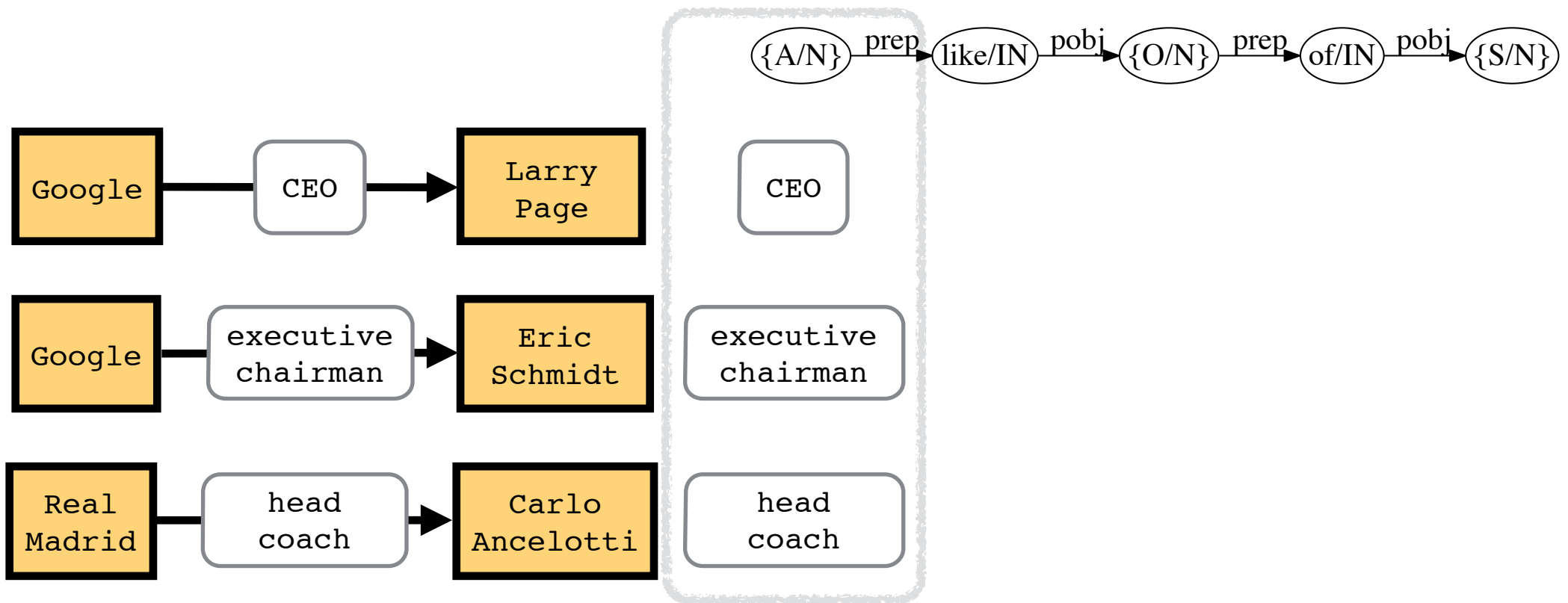
Dependency pattern learning





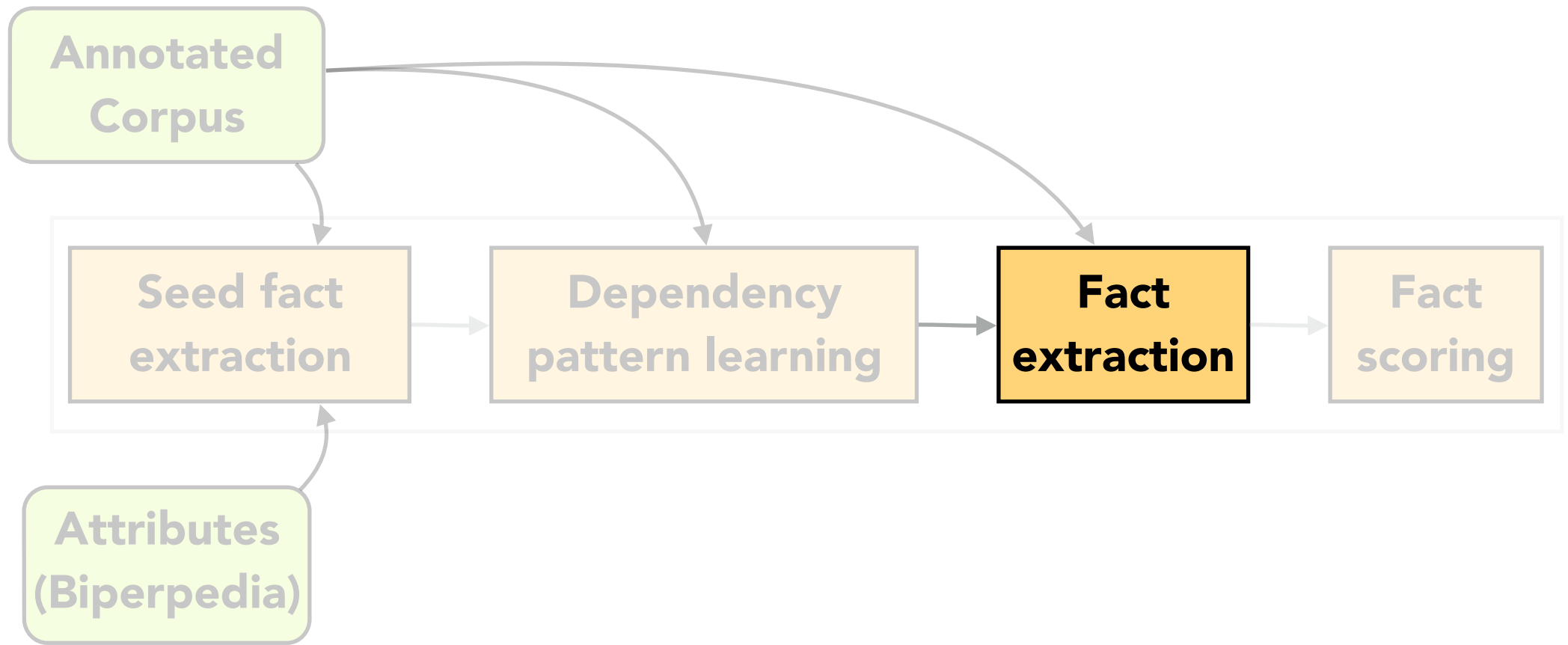


Same pattern could apply to multiple attributes...



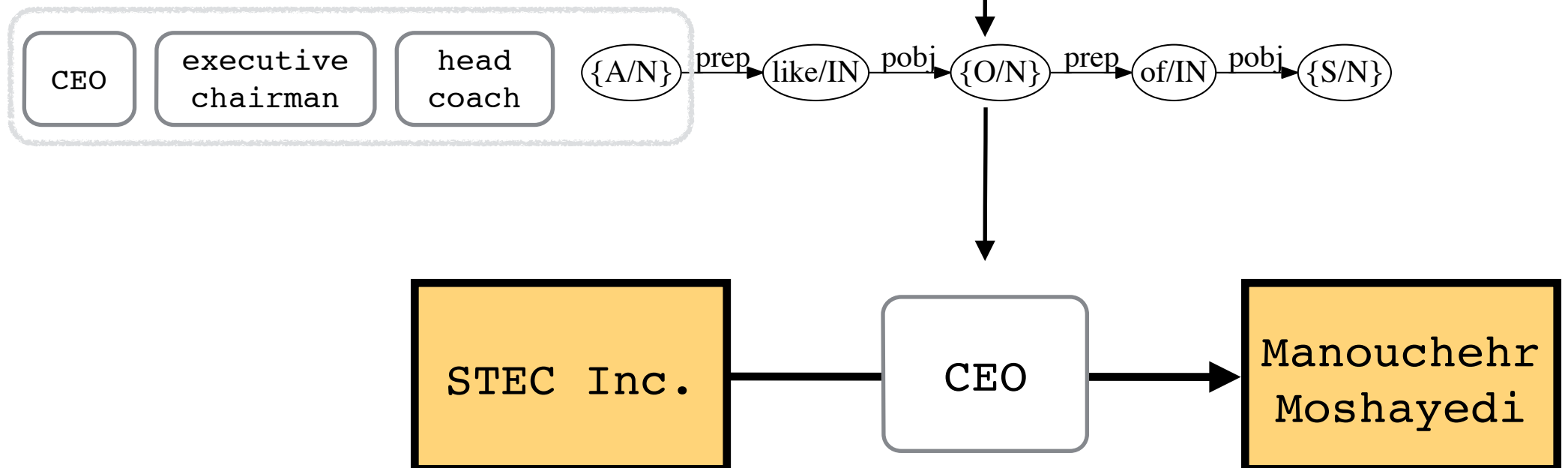
Same pattern could apply to multiple attributes...
...useful for scoring

ReNoun



Fact extraction

A CEO, like Manouchehr Moshayedi of STEC Inc., is not allowed to trade his company's stocks based on information only he has.



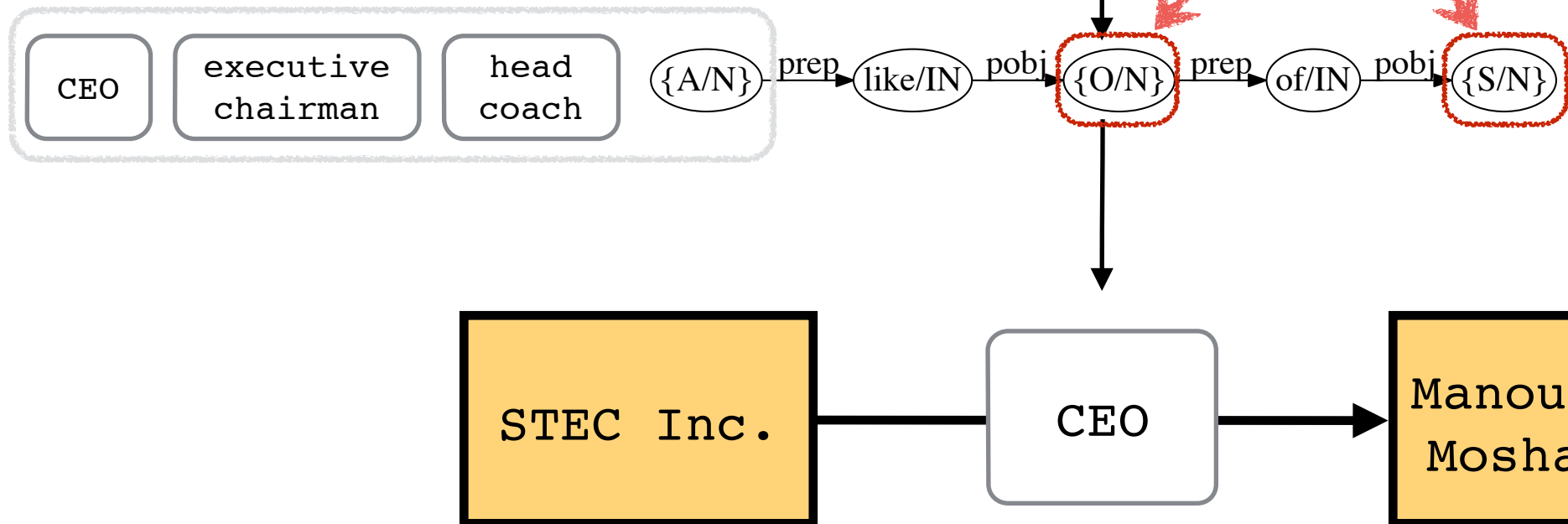
Argument order

Seed fact extraction

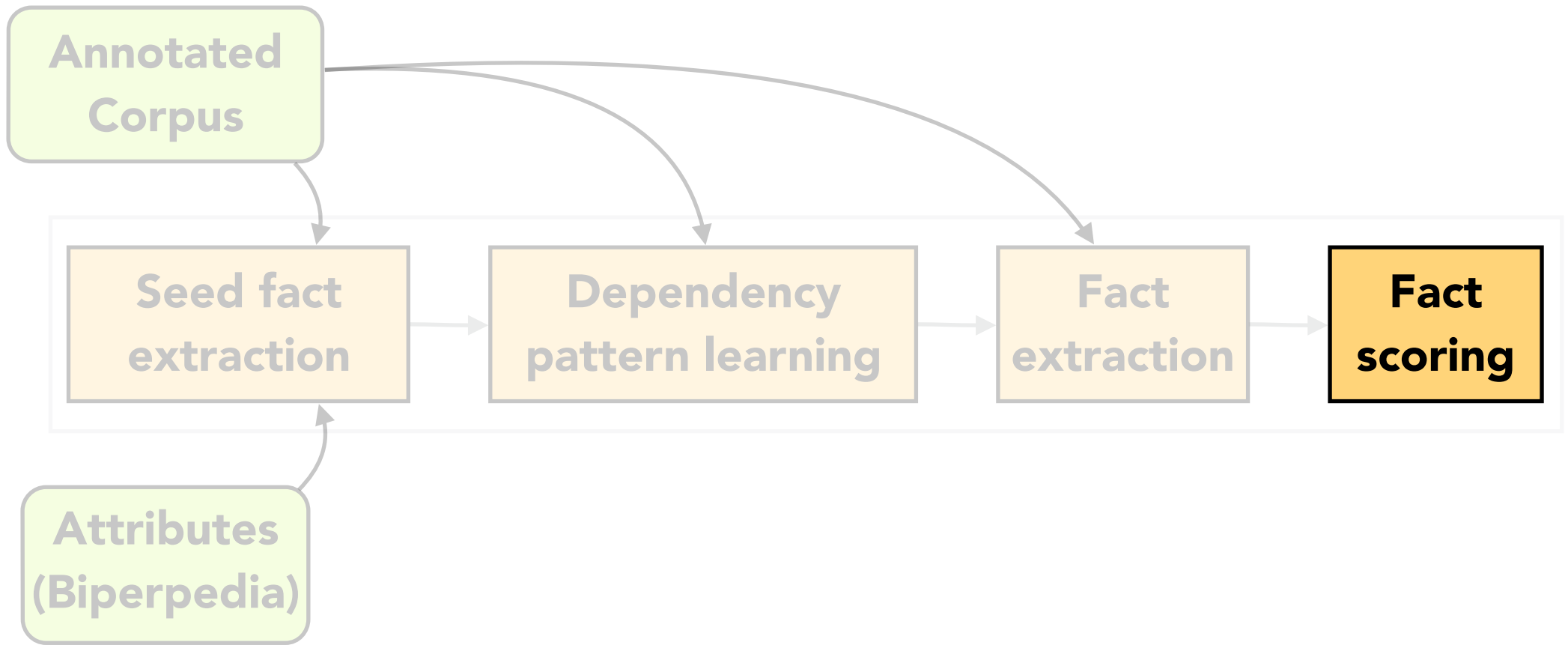
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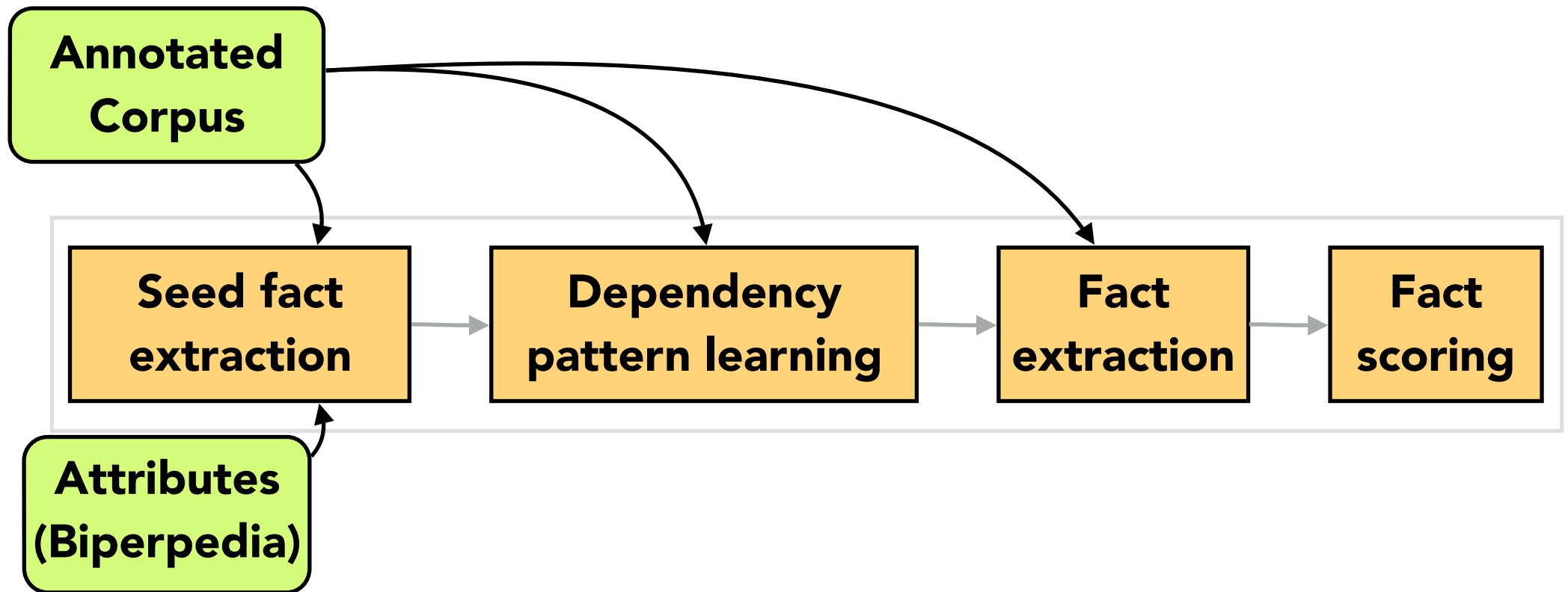
A CEO, like Manouchehr Moshayedhi of STEC Inc., is not allowed to trade his company's stocks based on information only he has.



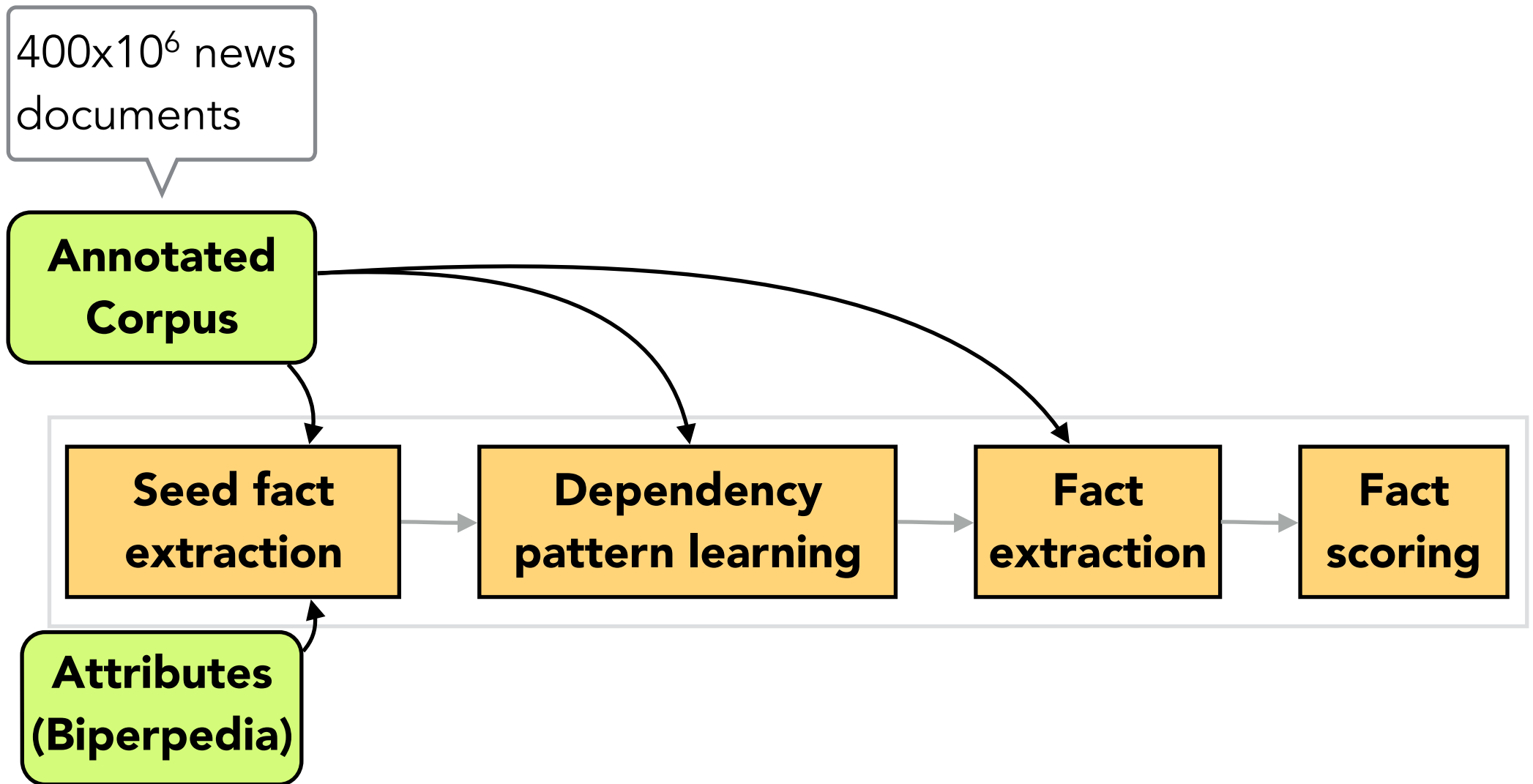
ReNoun



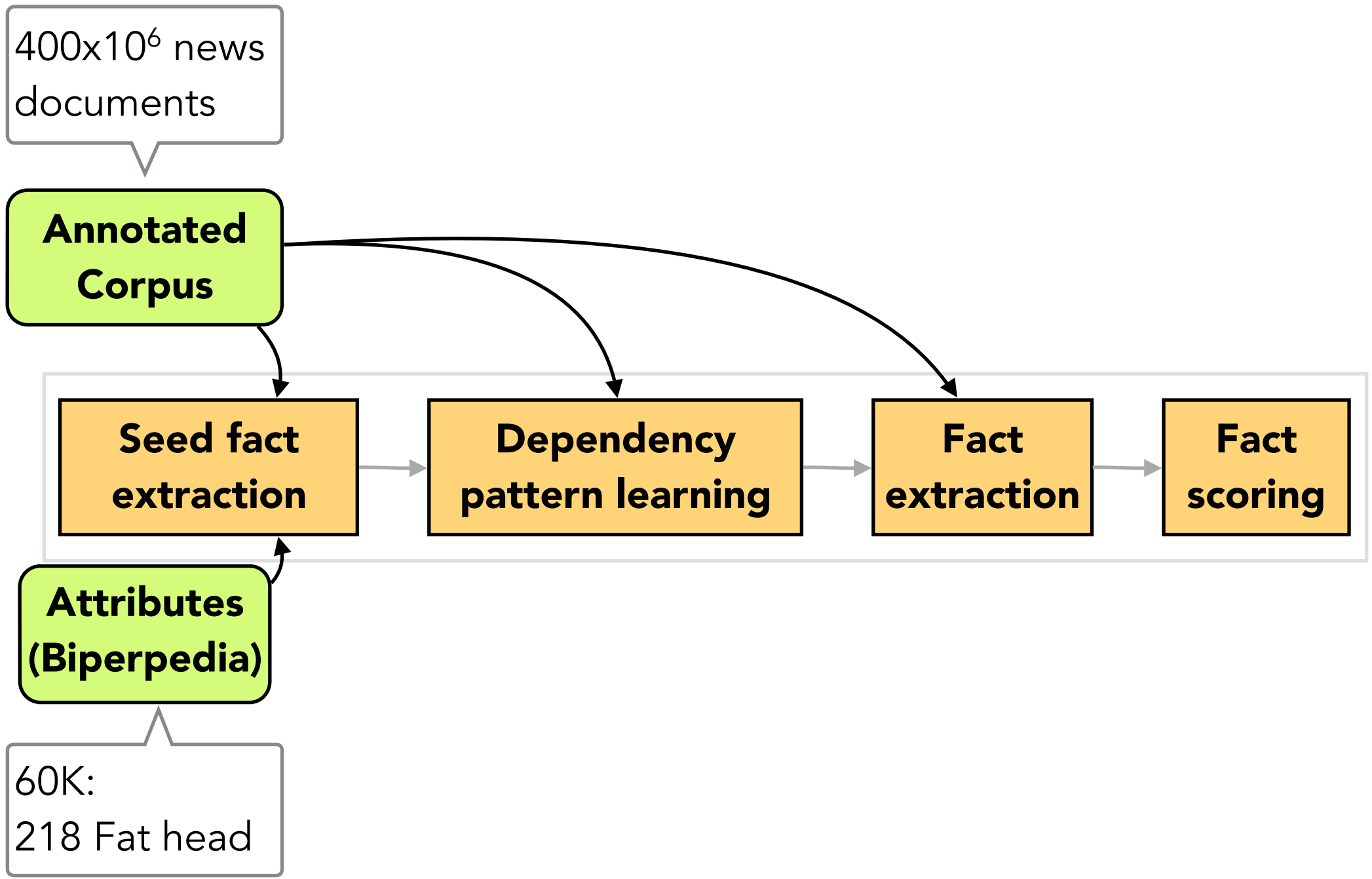
Some Numbers ...



Some Numbers ...



Some Numbers ...



Some Numbers ...

