



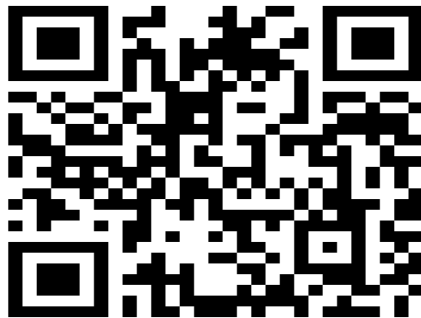
CLAIMBUSTER

## Toward the Holy Grail of Automated Fact-checking

Chengkai Li

University of Texas at Arlington

SXSW, March 13, 2017





Enter Your Own Text



2016 U.S. Presidential Debates



Hansard: Parliament of Australia



ClaimBuster Slackbot

End-to-end Fact-checking (coming soon)

## Tweets by @ClaimBusterTM

ClaimBuster Retweeted



Energy and Commerce

@HouseCommerce

Since President Clinton first proposed Medicaid per capita reforms, the program is 3x larger and cost 3x as much:

**3X** Today, Medicaid is 3 times larger and cost 3 times as much as it did under Bill Clinton.



1h

ClaimBuster Retweeted



Redeemed Harvey †

@Har\_vey007

@realDonaldTrump Have Congress write separate law to repatriate trillions at 10% tax. Use \$15b for wall \$55b for military. Do it now!



2h

ClaimBuster Retweeted



The News & Observer

@newsobserver

The 18,762 people apprehended at the US

Embed

View on Twitter



**ON AIR**

**2016 Third Presidential Debate Live. Oct. 19, 2016, 9 p.m. EST**

Participants: Donald Trump, Hillary Clinton

Moderators: Chris Wallace



**2016 Third Presidential Debate. Oct. 19, 2016, 9 p.m. EST**

Participants: Hillary Clinton, Donald Trump

Moderators: Chris Wallace



**2016 Second Presidential Debate. Oct. 9, 2016, 9 p.m. EST**

Participants: Hillary Clinton, Donald Trump

Moderators: Martha Raddatz, Anderson Cooper, Chris Wallace



**2016 Vice Presidential Debate. Oct. 4, 2016, 9 p.m. EST**

Participants: Tim Kaine, Mike Pence, Hillary Clinton, Donald Trump

Moderators: Elaine Quijano, Martha Raddatz, Anderson Cooper



**2016 First Presidential Debate. Sep. 26, 2016, 9 p.m. EST**

Participants: Hillary Clinton, Donald Trump

Moderators: Lester Holt



**2016 Democratic Party Presidential Debate. April 14, 2016, 9 p.m. EST**

Participants: Bernard Sanders, Hillary Clinton, Donald Trump



2016 Third Presidential Debate Live. Oct. 19, 2016, 9 p.m. EST

**Venue:** Venue: University of Nevada, Las Vegas, Nevada. Broadcasted by: C-SPAN.

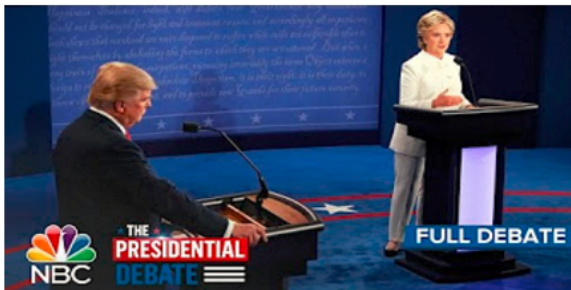
Least Check-worthy  $\geq 0.1$   $\geq 0.2$   $\geq 0.3$   $\geq 0.4$   $\geq 0.5$   $\geq 0.6$   $\geq 0.7$   $\geq 0.8$   $\geq 0.9$   $\geq 1.0$  Most Check-worthy

### ① Transcript

Chronological Order      Order by Score

It means their job is tougher. But they know what's going on. They know it better than anybody. They want strong borders. They feel we have to have strong borders. I was up in New Hampshire the other day. The biggest complaint they have -- it's with all of the problems going on in the world, many of the problems caused by Hillary Clinton and by Barack Obama. All of the problems -- the single biggest problem is heroin that pours across our southern border. It's just pouring and destroying their youth. It's poisoning the blood of their youth and plenty of other people. We have to have strong borders. We have to keep the drugs out of our

#### ④ Video



## ② Fact-check Report

the single biggest problem is heroin that pours across our southern border.

**Similar fact-checks:**

1. "Heroin ... pours across our southern borders." *Politifact* **True**
2. "9:35 p.m. Trump claims heroin is "pouring" in across the southern border." *CBS News* **True**

**Knowledge bases:**

Q: What is the single biggest problem?

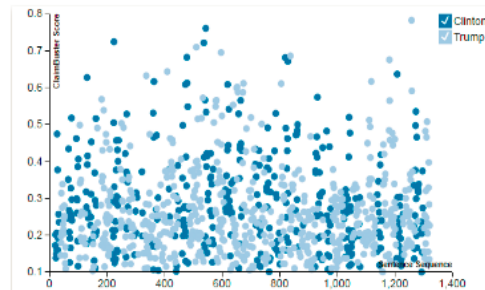
**Wolfram|Alpha:** No data returned.

**Google:** George Bernard Shaw Quotes. The single biggest problem in communication is the illusion that it has taken place. [brainyquote.com](http://brainyquote.com)

Search engine:

1. *Trump says heroin pours across the southern*

## ⑤ Visualization



### ③ Discussion

FILTER BY All Annotations

the single biggest problem is heroin that pours across our southern border.



Naffi

4 months

Is that true? What is the source?

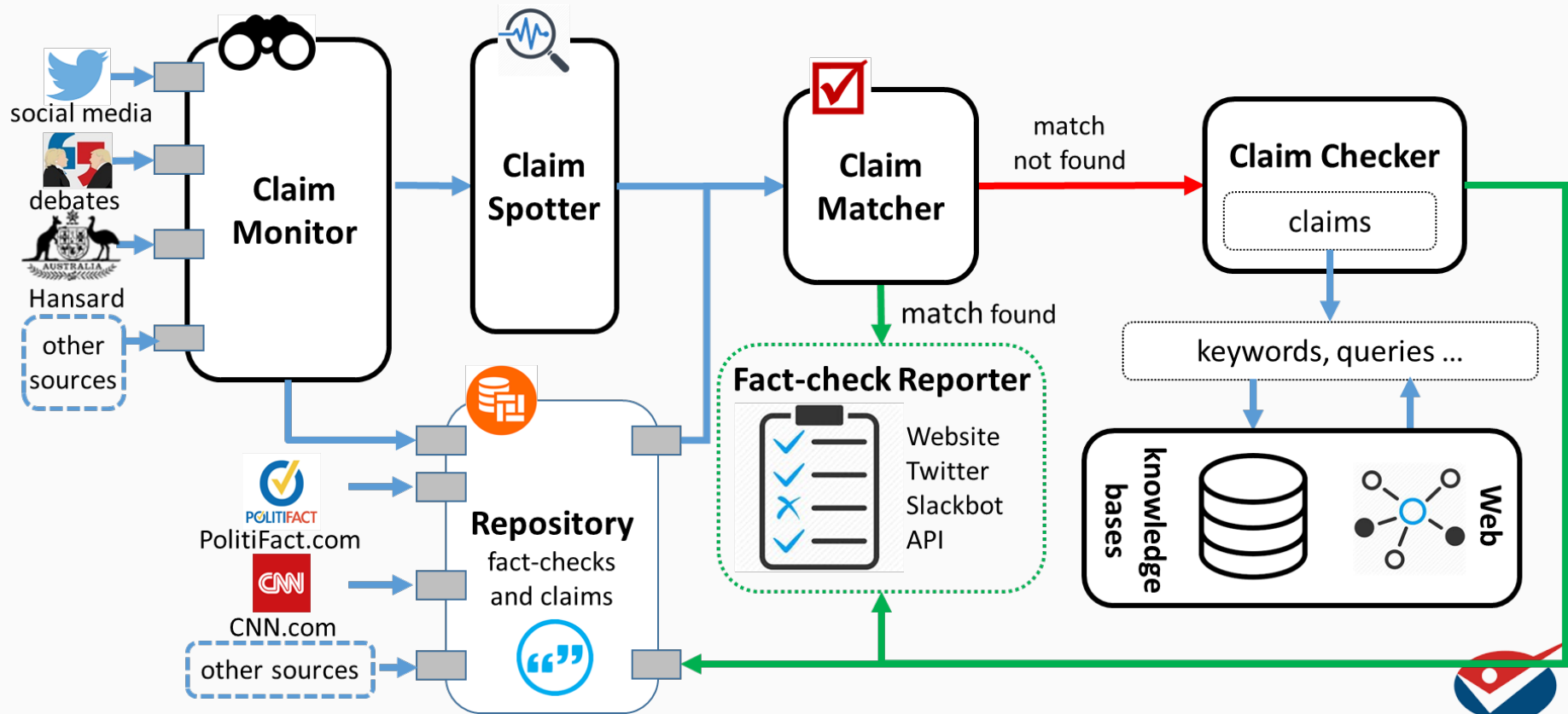
[report abuse](#)

Upvote

4 months



# The First-ever End-to-end System





**ClaimBuster** APP 5:08 PM Only visible to

you

Working on your request.

@gensheng

*When my husband was president, we went from a \$300 billion deficit to a \$200 billion surplus and we were actually on the path to eliminating the national debt.*

Score

0.657743014341

Working on your request.

@gensheng

*We know how to get control of the debt.*

Score

0.11061813488983



# ClaimBuster + Slack

\* ClaimBuster provides a platform for you to evaluate pieces of text and identify sentences that are check-worthy. This is our first step in our long-term goal of automating fact-checking. Our Slack app allows you to score individual sentences using the `/getscore claim` command, create a Dropbox folder on our servers using the `/createfolder e-mail` command, store text files from the web into your assigned Dropbox folder for future processing on our servers using the `/processfile e-mail file-url` command, and submit feedback to help us keep improving our services using the `/claimbusterfeedback message` command.



## Add to Slack

6 +

Message #slackbot\_test\_public

