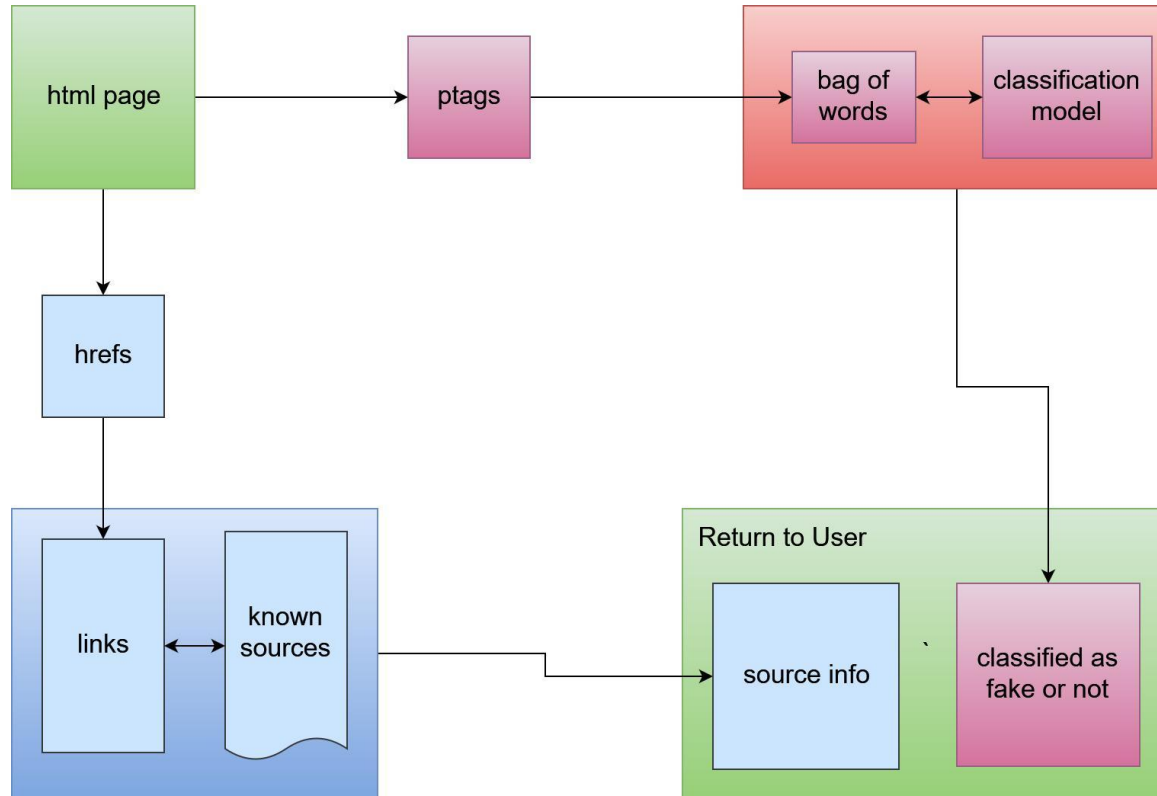




Devil's Advocate: Milestone

James Brothers, Julia Evans, Joseph Turner

High Level



Since the midterm...

- Data Collection
- Data Analysis
- Whols

Word	Frequency
site	5
archaeological	4
years	3
fire	3
mural	3
thousands	2
reportedly	2
sugar	2
cane	2
farmers	2
burning	2
fields	2
destroyed	2
northern	2
peru	2
oldest	2
discovered	2
said	2
ventarrón	2
complex	2
temple	2
art	2
civilization	2
story	1
highlights	1
engulfed	1
flames	1
old	1
started	1
nearby	1
cnn	1
much	1

~870 (Mostly) Bad Sources

Pulled from OpenSources (os) and PolitiFact (pf)

site_name	os_type_1	os_type_2	os_type_2_1	pf_type	pf_registration	
100percentfedup.com	bias					
16wmpo.com	fake			Imposter site	Scottsdale	Ariz. **
21stcenturywire.com	conspiracy					
247newsmedia.com				Fake news	Kumanovo	Macedonia
24newsflash.com	fake					
24online.news				Imposter site	Panama	Pa. **
24wpn.com	fake			Fake news	Veles	Macedonia
365usanews.com	bias	conspiracy				
4threvolutionarywar.wordpress.com	bias	conspiracy				
70news.wordpress.com	fake					
82.221.129.208	conspiracy	fake				

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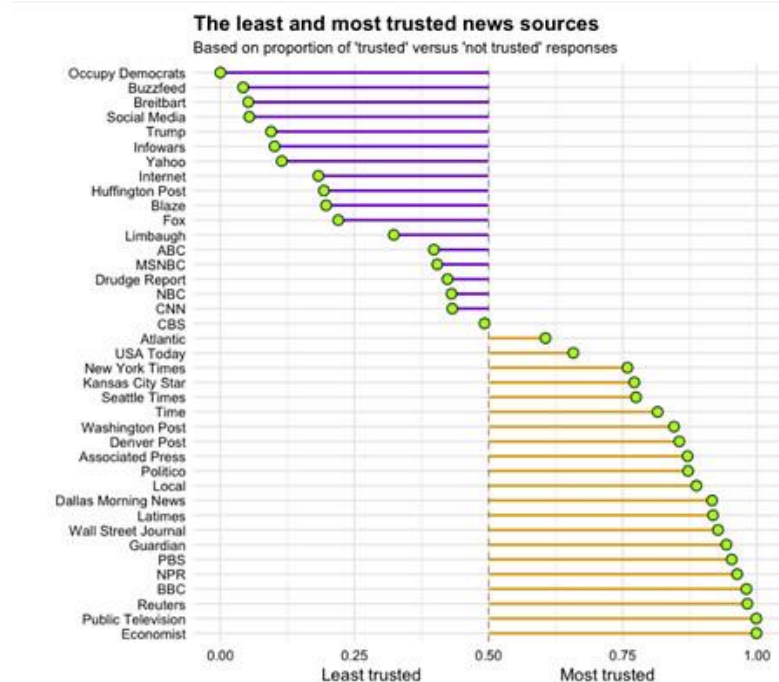
~5000 Fake Articles

Python script uses newspaper API and multi-threading to pull articles

source	url	title	text	fake	bias	imposter	satire	unreliable	reliable	conspiracy	parody	rumor	junksci	clickbait	hate	political
viralliberty.	http://viral	Rising price	HERE Is WH	1	1	0	0	0	0	0	0	0	0	1	0	0
viralliberty.	http://viral	Record nun	Record nun	1	1	0	0	0	0	0	0	0	0	1	0	0
viralliberty.	http://viral	No new ide	HERE Is WH	1	1	0	0	0	0	0	0	0	0	1	0	0
viralliberty.	http://viral	White Hou:	HERE Is WH	1	1	0	0	0	0	0	0	0	0	1	0	0
viralliberty.	http://viral	White Hou:	HERE Is WH	1	1	0	0	0	0	0	0	0	0	1	0	0
viralliberty.	http://viral	The busine:	The busine:	1	1	0	0	0	0	0	0	0	0	1	0	0
viralliberty.	http://viral	No new ide	HERE Is WH	1	1	0	0	0	0	0	0	0	0	1	0	0
viralliberty.	http://viral	Who needs	Fridays Ken also heard Wednesday afternoons giving weekly economic report Angel Clark radio show HERE Is WHAT WILL HAPPEN If The DEEP STATE TAKES DOWN													
viralliberty.	http://viral	Rising price	Jefferson ELDER PATRIOT Corrupt politicians ignore Jeffersons directive detriment Its longer political its personal Americans eyes opened ascension Donald Trump ;													
viralliberty.	http://viral	Featured A	reviewing results 2016 elections expectations voters Cruz high profile personality clash Donald Trump Republican primary process nevertheless embraced Trumps A													
americanp	http://ame	POLL How i	think quite rightly Candidate Trump promised many things border control lower taxes fairer trade relations balanced budget healthcare puts people first governme													
americanp	http://ame	POLL Do Yc	After four months without single legislative achievement Congressional Senatorial Republicans notably John McCain Paul Ryan Lindsey Graham joined Democrats													
usadosene	http://usac	Packers wo	promise Trump made way White House Republicans joining Democrats quaking boots Trumps promise Drain Swamp As reported yesterday An FBI agent intimate k													
usadosene	http://usac	Eagles sign	near entire government could brought down The criminal coconspirators parties realized almost immediately new sheriff wasnt interested joining swamp launched													
usadosene	http://usac	BREAKING	bloody civil wars It noted Democratic Party already done before One Hundred FiftySeven years ago Democrats waged war First Republican President Abraham Linc													
usadosene	http://usac	FBI Directo	casualties exceed nations loss wars Revolution Vietnam Today Americans still prepared fight die protect childrens Godgiven freedoms Despite reading hearing mair													
usadosene	http://usac	Byron to si	Americans back Donald Trump well armed Donald Trumps presidency move forward politically lest sixty million patriots voted comprised large majority military vo													
americanp	http://ame	POLL Will T	disgusted corruption Washington whatever necessary make sure Trumps Freedom Agenda moves forward direction Donald Trump himself No amount fake news k													



~30 (Mostly) Trusted Sources



1	www.bbc.com
2	www.npr.org
3	www.pbs.org
4	www.abcnews.go.com
5	www.cbsnews.com
6	www.nbcnews.com
7	www.cnn.com
8	www.usatoday.com
9	news.google.com
10	www.economist.com
11	www.nytimes.com
12	www.washingtonpost.com
13	www.msnbc.com
14	www.theguardian.com
15	www.bloomberg.com
16	www.newyorker.com
17	www.politico.com

~ marketwatch.com



~5000 Real Articles

source	url	title	text	fake	bias	imposter	satire	unreliable	reliable	conspiracy	parody	rumor	junksci	clickbait	hate	political
www.bloor	https://ww	Putin s Gen In Vladimir		0	0	0	0	0	1	0	0	0	0	0	0	0
www.bloor	https://ww	Trump s W: President C		0	0	0	0	0	1	0	0	0	0	0	0	0
www.bloor	https://ww	Tesla Is Ret In N Out Bu		0	0	0	0	0	1	0	0	0	0	0	0	0
www.bloor	https://ww	Senate Rep Senate Rep		0	0	0	0	0	1	0	0	0	0	0	0	0
www.bloor	https://ww	Here Come On Nov 11		0	0	0	0	0	1	0	0	0	0	0	0	0
www.bloor	https://ww	It s Amazin Just seeme		0	0	0	0	0	1	0	0	0	0	0	0	0
www.bloor	https://ww	Trump Insis President C		0	0	0	0	0	1	0	0	0	0	0	0	0
www.bloor	http://www	Senate Rep	Senate Republicans tossed potential bomb middle tax overhaul bill The plan released Tuesday night mixes two red hot debates adding repeal Obamacare law s inc													
www.bloor	http://www	Trump s W: Democrats bumper sticker ready issue use charge base	The revised proposal will effectively repeal Obamacare s individual mandate tax provide even tax relief lov													
www.bloor	https://ww	How Much	requirement people insurance pay penalty would knock pillar Obamacare law House leaders considered adding repeal bill ultimately keeping legislation headed fi													
www.bloor	https://ww	Trump Carr	secure 50 votes pass tax bill provision But it s narrow margin error Republicans two vote majority Senate tried failed twice pass Obamacare repeal earlier year N													
www.bloor	http://www	Weinstein	(spotlight tax legislation moves Senate McCain s objections Obamacare repeal procedure policy For Collins Murkowski concerns voters would hurt dismantling he													
www.bloor	https://ww	Mugabe s E	people forgo insurance insurers may forced raise prices policies Murkowski said would help Congress approved proposed Obamacare fix sponsored Republican Se													
www.bloor	https://ww	What s Nex	statement it s truly shameful Republicans trying jam health care change would allow pay hundreds billions dollars tax cuts rich asking middle class families foot l													
www.bloor	http://www	Wilbur Ros	two years would allow Alexander Murray bill provide a two year bridge solution Later Perdue s office said senator misspoke delay consideration McCain far sigr													
www.bloor	http://www	Trump s W:	Hatch defended inclusion health care provision tax legislation arguing Wednesday the individual mandate tax He quipped Democrats shouldn t shocked learn Re													
www.bloor	https://ww	The FCC Vo	part kicking 13 million Americans health care raising premiums millions more Senator Ron Wyden top Democrat Finance panel said sometimes tense committee													

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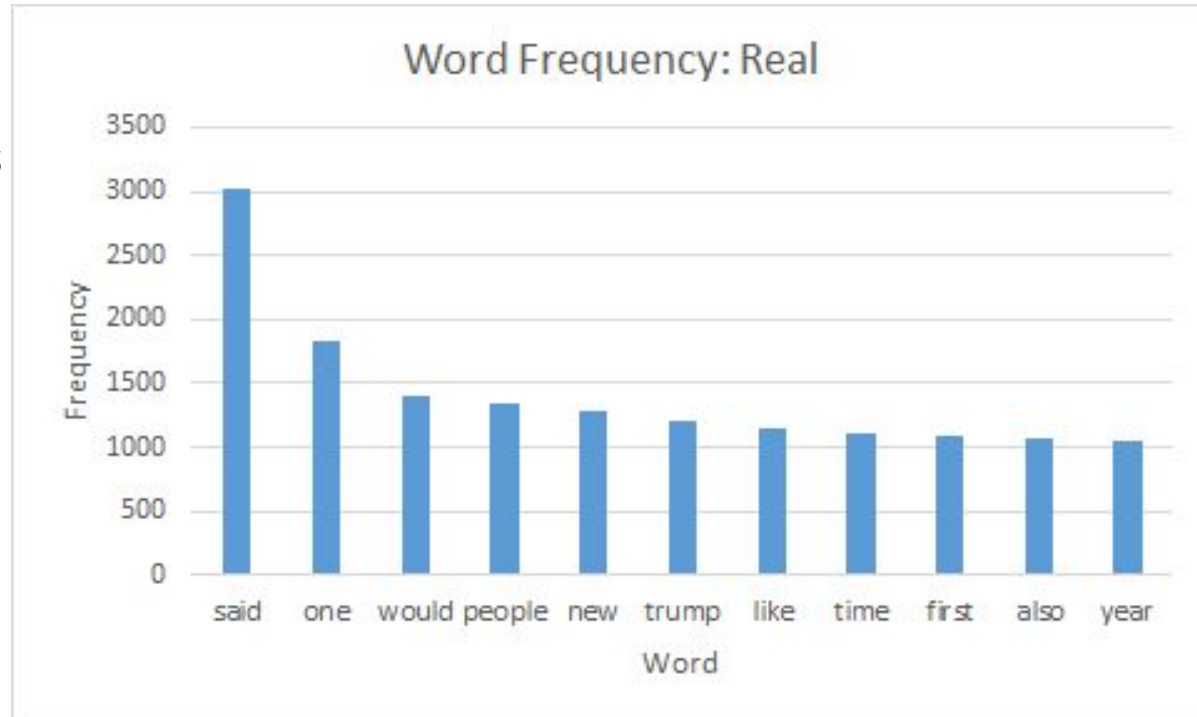
Data Analysis: Real News

First step: word frequency

Ideally: looking at phrases

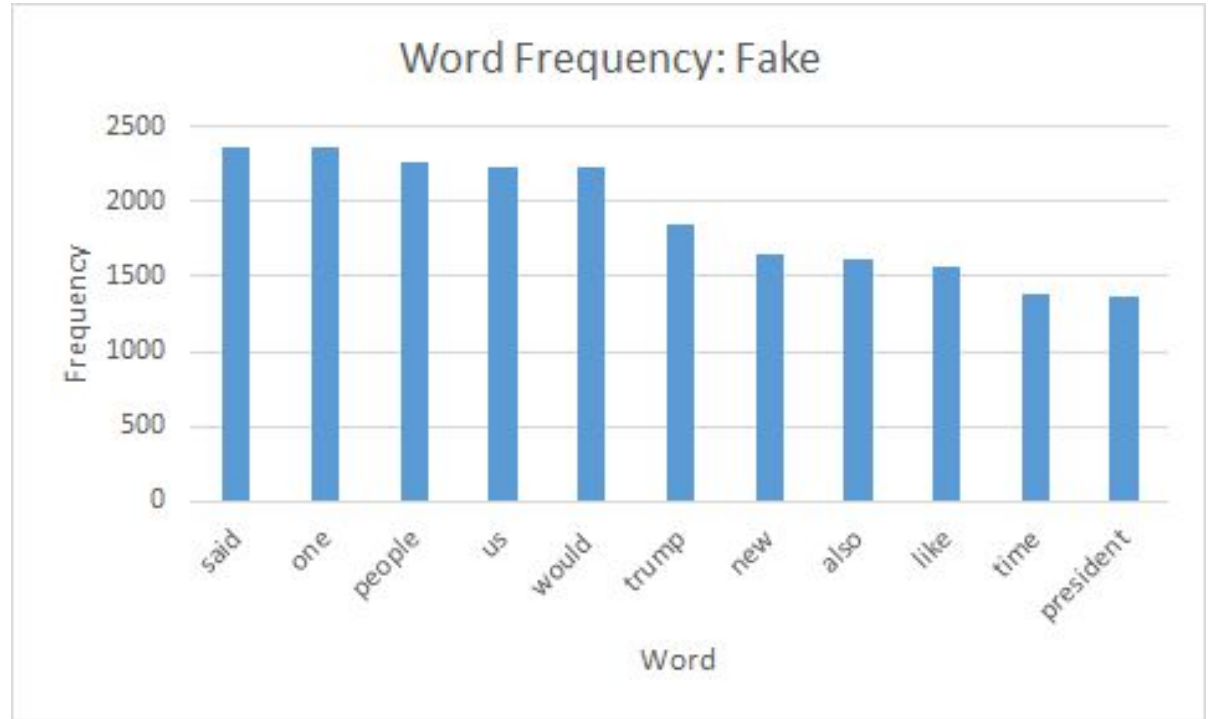
More cleaning needed

“said”, “like”, “also”



Data Analysis: Fake News

- So far similar to real news



Whois

- Difficult to read
- Very easy to parse (WhoisReturn.country)

```
{ "domain_name": [ "CONSERVATIVEFLASHNEWS.COM", "conservativeflashnews.com" ], "registrar":  
"NAMECHEAP INC", "whois_server": "whois.namecheap.com", "referral_url": null, "updated_date":  
"2017-02-14 23:41:23", "creation_date": "2017-02-14 22:11:01", "expiration_date": "2018-02-14 22:11:01",  
"name_servers": [ "DNS1.NAMECHEAPHOSTING.COM", "DNS2.NAMECHEAPHOSTING.COM",  
"dns1.namecheaphosting.com", "dns2.namecheaphosting.com" ], "status": [ "clientTransferProhibited  
https://icann.org/epp#clientTransferProhibited", "addPeriod https://icann.org/epp#addPeriod" ], "emails": [  
"abuse@namecheap.com", "170bc9e3aab94dcf8ec6c27c67e6f1a8.protect@whoisguard.com" ], "dnssec":  
"unsigned", "name": "WhoisGuard Protected", "org": "WhoisGuard, Inc.", "address": "P.O. Box 0823-03411",  
"city": "Panama", "state": "Panama", "zipcode": null, "country": "PA" }
```

```
"domain_name": [
  "CONSERVATIVEFLASHNEWS.COM",
  "conservativeflashnews.com"
],
"registrar": "NAMECHEAP INC",
"whois_server": "whois.namecheap.com",
"referral_url": null,
"updated_date": "2017-02-14 23:41:23",
"creation_date": "2017-02-14 22:11:01",
"expiration_date": "2018-02-14 22:11:01",
"name_servers": [
  "DNS1.NAMECHEAPHOSTING.COM",
  "DNS2.NAMECHEAPHOSTING.COM",
  "dns1.namecheaphosting.com",
  "dns2.namecheaphosting.com"
],
"status": [
  "clientTransferProhibited https://icann.org/epp#clientTran",
  "addPeriod https://icann.org/epp#addPeriod"
],
"emails": [
  "abuse@namecheap.com",
  "170bc9e3aab94dcf8ec6c27c67e6f1a8.protect@whoisguard.com"
],
"dnssec": "unsigned",
"name": "WhoisGuard Protected",
"org": "WhoisGuard, Inc.",
"address": "P.O. Box 0823-03411",
"city": "Panama",
"state": "Panama",
"zipcode": null,
"country": "PA"
```

What is Suspicious

This is

"ConservativeFlashNews"

```
"domain_name": [
  "CNN.COM",
  "cnn.com"
],
"registrar": "CSC CORPORATE DOMAINS, INC.",
"whois_server": "whois.corporatedomains.com",
"referral_url": null,
"updated_date": [
  "2017-02-15 17:31:58",
  "2017-02-15 16:01:26"
],
"creation_date": "1993-09-22 04:00:00",
"expiration_date": "2018-09-21 04:00:00",
"name_servers": [
  "NS-1086.AWSDNS-07.ORG",
  "NS-1630.AWSDNS-11.CO.UK",
  "NS-47.AWSDNS-05.COM",
"emails": [
  "domainabuse@cscglobal.com",
  "tmgroup@turner.com",
  "hostmaster@turner.com"
],
"dnssec": "unsigned",
"name": "Domain Name Manager",
"org": "Turner Broadcasting System, Inc.",
"address": "One CNN Center",
"city": "Atlanta",
"state": "GA",
"zipcode": "30303",
"country": "US"
```

A Viable Website

CNN.com





What to Check

- Website country
- Registrar
- Owner Name
- Organization

Final Steps

Task	Person to complete it	Time Frame
Further data analysis: n-gram analysis	Julia	By 12/1
Integrate Whols & classification model with UI	Joseph/James	By 12/3
Polish final report: Results	Julia	By 12/10
Polish final report: Discussion	Joseph/James	By 12/10