

# Defending Election Campaigns from Cyberspace

Joshua Franklin

Kevin Franklin



# JOHN LEWIS FOR CONGRESS

John Lewis is tired of sitting on the sidelines watching his boss, longtime liberal crusader Max Baucus, get all the credit for advancing President Obama's out-of-touch agenda, including ObamaCare. But despite being ObamaCare's "chief architect," Baucus hasn't had any problem trying to distance himself from the law earlier this year, saying he sees "a huge train wreck coming." Will John Lewis put himself at odds with the President now that he'll be in the spotlight? Or will he stand by the disastrous bill his boss helped to craft?

John Lewis is bad for Montana:

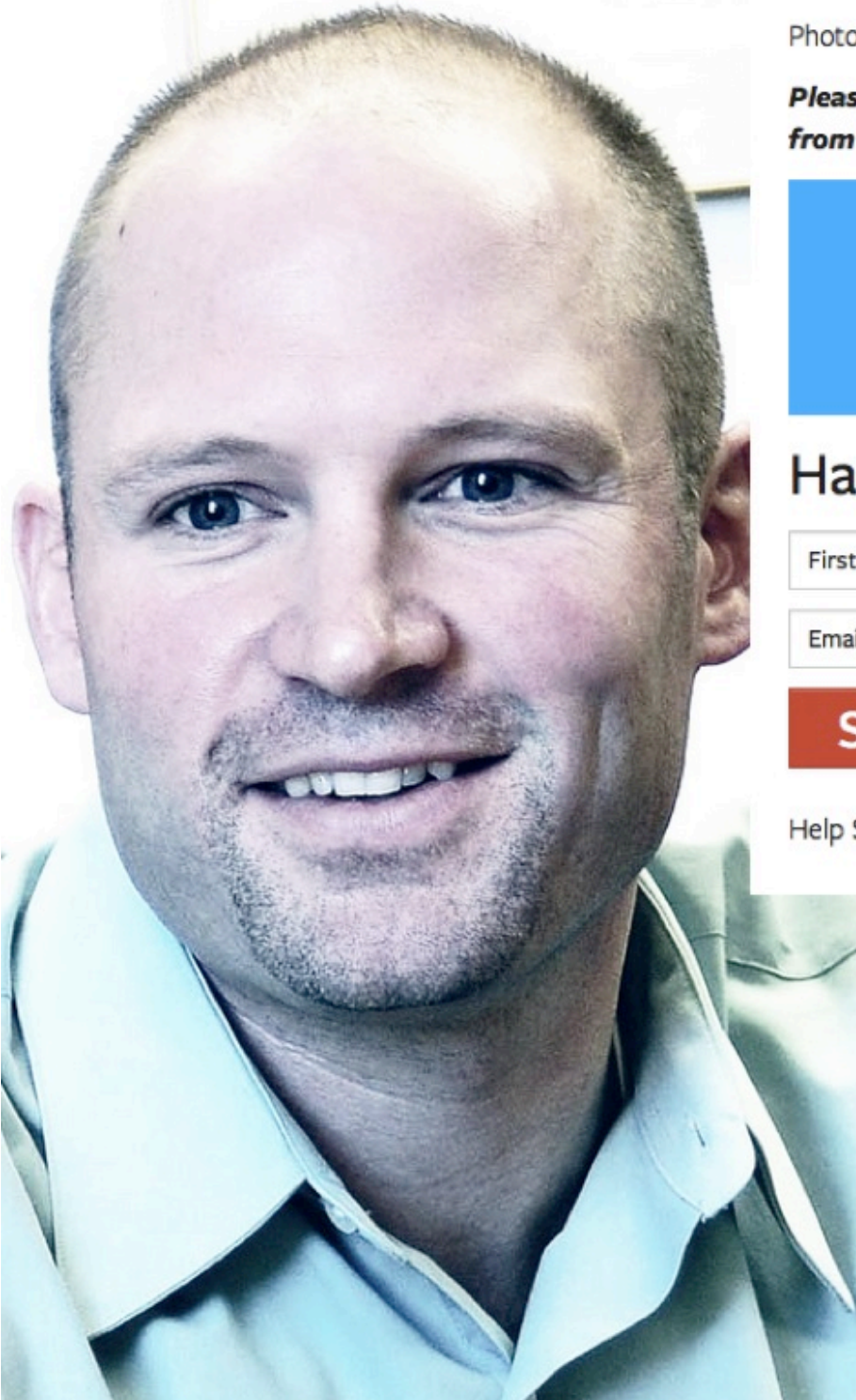
- After more than a decade working under Baucus, John Lewis has pocketed over \$568,000 of taxpayers' money
- Lewis has been laying the groundwork for his campaign by visiting every county in Montana on the taxpayers' dime
- Lewis has spent nearly 12 years working under Baucus and was a top aide to the "chief architect" of Obamcare

Photo was taken by Eliza Wiley

***Please come back and visit this site to learn more about why Lewis needs to retire from Washington.***

# DONATE

Had enough of John Lewis? Sign up Today



architect" of Obamacare

Photo was taken by Eliza Wiley

***Please come back and visit this site to learn more about why Lewis needs to retire from Washington.***

# DONATE

## Had enough of John Lewis? Sign up Today

**SUBMIT**

Help Stop John Lewis in his tracks



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[www.nrcc.org](http://www.nrcc.org)

# Agenda

- Bonda fides
- Previous work
- Introducing Election Buster
  - How it works, issues, results
- WHOIS information
- Applications to other areas
- 2016 presidential hopefuls
- Recommendations and conclusions

# Note on Politics & Cybersecurity

***This work is party agnostic.***

*Where possible, we made every attempt to provide examples from both parties. When we did not, it was solely because we didn't have an example from the other party.*

# Bona Fides

- Joshua Franklin
  - 10+ years experience in election technology at state & federal levels
  - MS Information Security & Assurance
- Kevin Franklin
  - Big expertise in big data (15+ years)
  - MS Computer Science

# Previous Work – 2012 Election

- Presented at Shmoocon 2014
- Found many examples of internet chicanery



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**GOP 2012**

### DUCK, DODGE and DISMANTLE

In an effort to woo the Tea Party, the Republican presidential candidates are doing everything they can to top one another with right-wing rhetoric and harmful policies. The Democratic National Committee has learned the truth about the extreme ideas these candidates have.

★ READ MORE



### State of the Union

President Obama warned in his State of the Union address Tuesday that the nation's middle class is at risk because of growing economic inequality, and argued that the government must do more to preserve the basic American dream.

★ READ MORE



50 State Strategy

DEMOCRATS

Partner With Us

Blog

National

Local

Communities

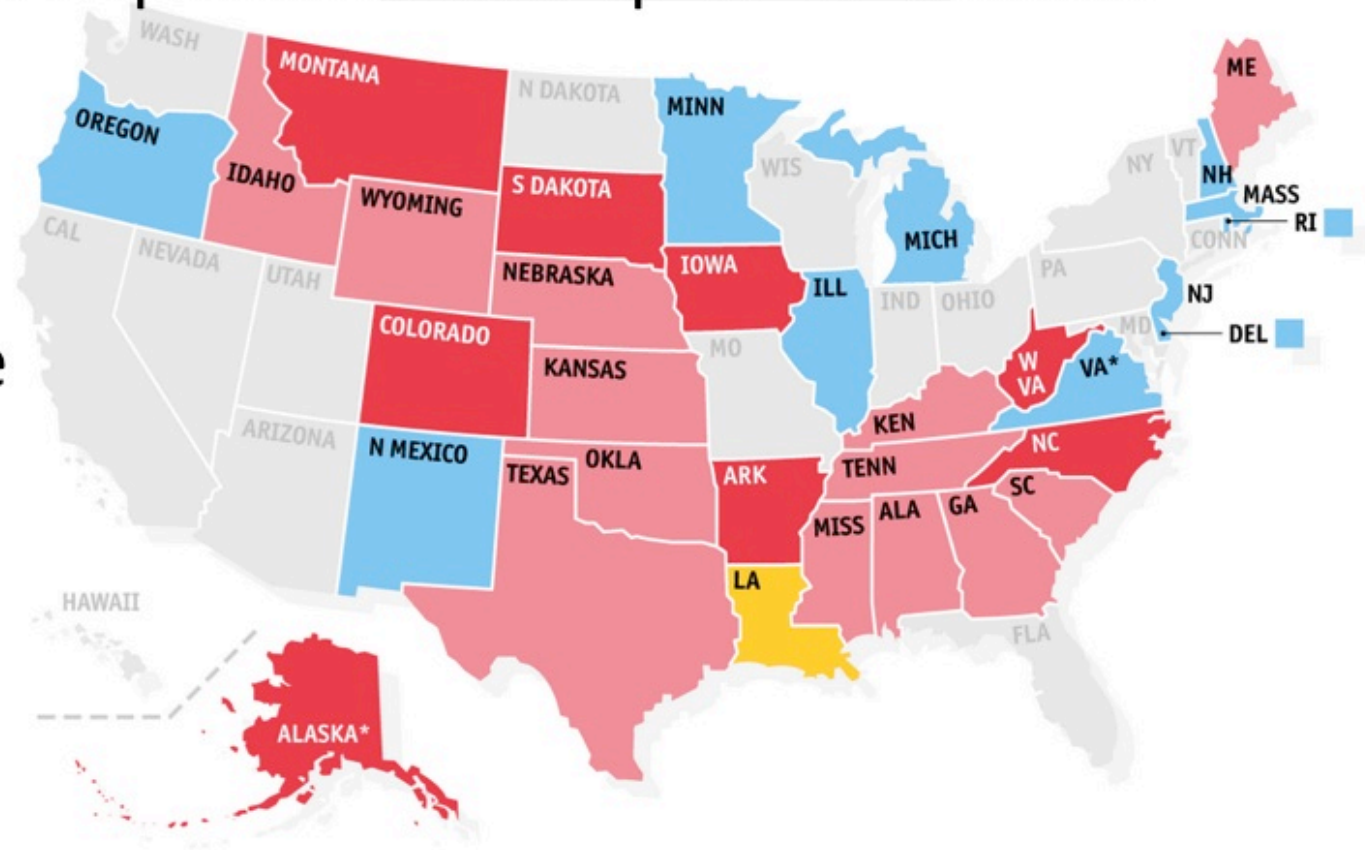


www.democraticnationalcommittee.org/



# 2014 General Election

- Not a presidential election year
- 1/3 the Senate up for re-election
- Entire House of Representatives up for re-election
- Many, many, many, local and state elections nationwide

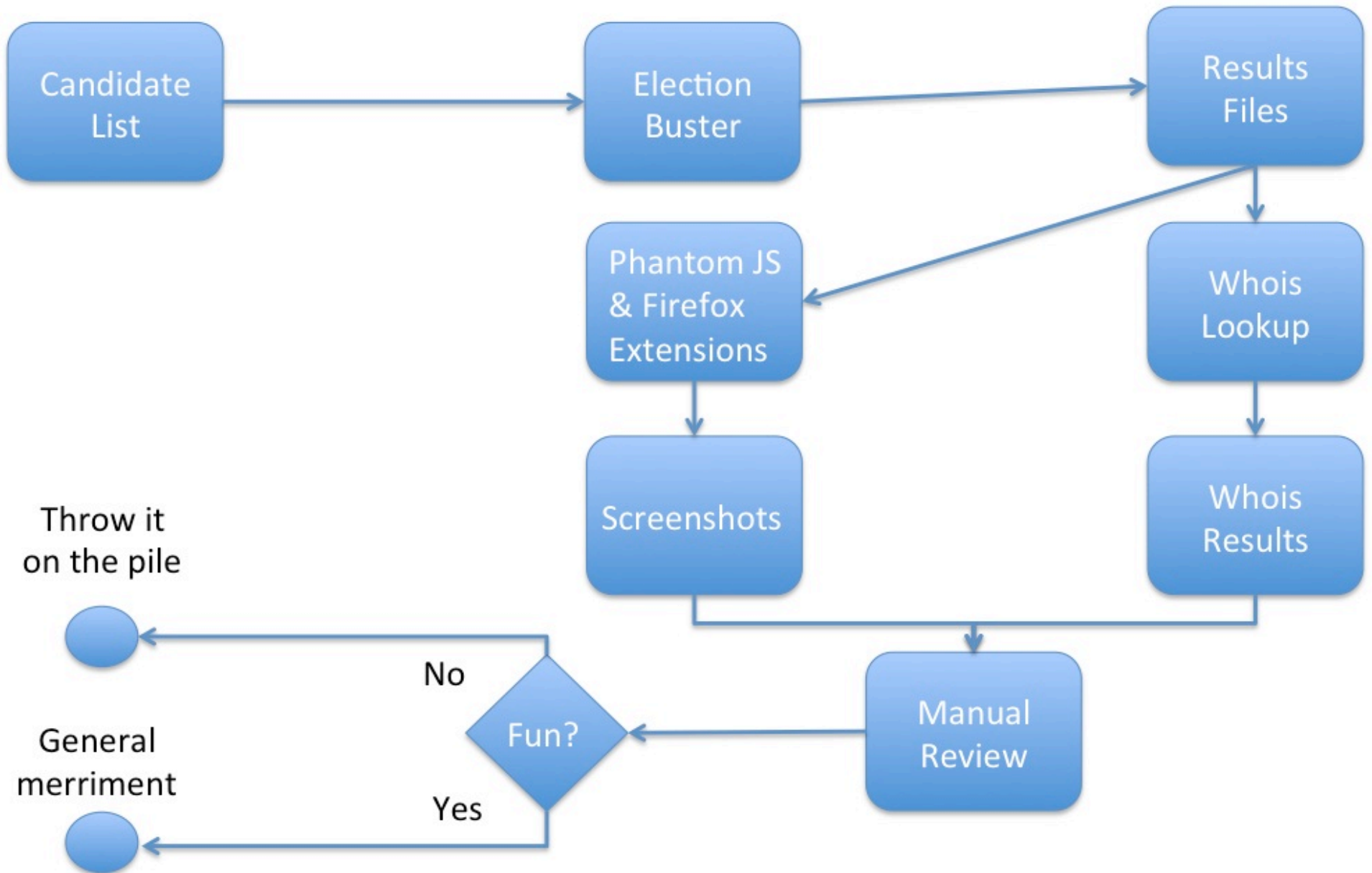


# Methodology

- Looked for:
  - Fake campaign sites and other malfeasance
  - Candidates stealing traffic and money from another candidate
- Wrote tools to find suspect sites
  - Scanned **every candidate for Senate and House in 2014** (1000+ candidates) + 2016 hopefuls
  - Wrote tools to take screenshots and collect WHOIS information
- Combed through data to identify malicious and questionable sites

***Timeline of Scans: February 2014 – October 2015***

# Workflow



# Introducing ElectionBuster.py

- Open source Python tool
- Requires 5 inputs for a candidate
  - first name, last name, state of the election, type of election (e.g., House, Senate), year of the election
- Requests every combination of characters for a domain
- Uses our templates to be a little smarter

```
./electionBuster.py -f Barack -l Obama -e president -s Hawaii -y 2008
```

```
./electionBuster.py -f Mitt -l Romney -e president -s Massachusetts -y 2008
```

# Uses of Election Buster

- Identify a candidate's domains
- Identify typosquatters
- Identify sites that should be defensively purchased or acquired
- Predict if someone is thinking about running for a particular office
  - Precognition!

Available at: <https://github.com/thorshand/electionBuster>

# Issues

- **Speed**
  - It takes 8 - 12 hours to scan each candidate with my 2008 Macbook using WiFi
  - It takes 5 - 15 minutes per scan with Amazon EC2
- Names with punctuation marks
  - O'Malley need to be input as OMalley
- Names and states with spaces
  - Remove spaces and concatenate words
  - West Virginia is concatenated = WestVirginia

# Sample Scan

\*\*\*\*\*

Page Exists: <http://www.alfranken.com>  
<http://www.alfranken.com>, 200  
Date: Fri, 17 Oct 2014 22:17:14 GMT  
Server: Apache  
Last-Modified: Fri, 17 Oct 2014 00:03:50 GMT  
Content-Length: 31479

Cache-Control: max-age=3, must-revalidate  
Expires: Fri, 17 Oct 2014 22:17:17 GMT  
Content-Type: text/html; charset=UTF-8

\*\*\*\*\*

Page Exists: <http://www.alfranken.net>  
<http://www.alfranken.net>, 200  
Date: Fri, 17 Oct 2014 22:17:14 GMT  
Server: Apache  
Set-Cookie: is\_mobile=0; path=/; domain=www.alfranken.net  
X-Host: app-64-13.intern.weebly.net  
X-UA-Compatible: IE=edge,chrome=1  
Content-Type: text/html; charset=UTF-8

\*\*\*\*\*+

<http://www.alfranken.me>, URLError, [Errno -2] Name or service not known  
<http://www.alfranken.org>, HTTPError, 403  
<http://www.alfranken.biz>, URLError, [Errno -2] Name or service not known  
<http://www.alfranken.info>, URLError, [Errno -2] Name or service not known  
<http://www.alfranken.us>, URLError, [Errno -2] Name or service not known

#####

ElectionBuster v12 Scan Results:

#####

INPUTS = al, franken, 2014, senateminnesota  
Total runtime was (1137.5537490844727, 'seconds')  
There were 20 positive results.  
There were 22677 unique URLs tested.

-----  
Positive results:

-----  
<http://www.alfranken.com>  
<http://www.alfranken.net>  
<http://www.al2014.org>  
<http://www.franken2014.com>  
<http://www.alfranken2014.com>  
<http://www.senatoralfranken.org>  
<http://www.frankenforsenate.com>  
<http://www.frankenforsenate.net>  
<http://www.frankenforsenate.org>  
<http://www.afranken.com>  
<http://www.afranken.net>  
<http://www.alfranke.com>  
<http://www.altfranken.com>  
<http://www.altfranken.net>  
<http://www.altfranken.info>  
<http://www.rlfranken.com>  
<http://www.alfranzen.com>  
<http://www.teamfranken.com>  
<http://www.repal.com>  
<http://www.voteal.com>

# Sample Scan

http://www.corygardner.com, HTTPError, 403  
http://www.corygardner.net, HTTPError, 403  
http://www.corygardner.me, URLError, [Errno 8] nodename nor servname provided, or not known  
http://www.corygardner.org, URLError, [Errno 8] nodename nor servname provided, or not known  
http://www.corygardner.biz, URLError, [Errno 8] nodename nor servname provided, or not known  
http://www.corygardner.info, URLError, [Errno 8] nodename nor servname provided, or not known  
http://www.corygardner.us, URLError, [Errno 8] nodename nor servname provided, or not known  
http://www.c0rygardner.com, URLError, [Errno 8] nodename nor servname provided, or not known  
http://www.c0rygardner.net, URLError, [Errno 8] nodename nor servname provided, or not known  
http://www.c0rygardner.me, URLError, [Errno 8] nodename nor servname provided, or not known  
http://www.c0rygardner.org, URLError, [Errno 8] nodename nor servname provided, or not known  
http://www.c0rygardner.biz, URLError, [Errno 8] nodename nor servname provided, or not known  
http://www.c0rygardner.info, URLError, [Errno 8] nodename nor servname provided, or not known  
http://www.c0rygardner.us, URLError, [Errno 8] nodename nor servname provided, or not known  
http://www.corygardmer.com, URLError, [Errno 8] nodename nor servname provided, or not known

```
#####  
ElectionBuster v5 Scan Results:  
#####  
INPUTS = cory, gardner, 2014, senate  
Total runtime was (31729.032551050186, 'seconds')  
There were 15 positive results.  
There were 23544 unique URLs tested.-----  
Positive results:  
-----  
http://www.corygardnerforsenate.net  
http://www.corygardnerforsenate.org  
http://www.corygardnerforsenate.info  
http://www.coryforsenate.com  
http://www.gardnerforsenate.com  
http://www.carygardner.com  
http://www.corigardner.com  
http://www.coreygardner.com  
http://www.rorygardner.com  
http://www.rorygardner.net  
http://www.rorygardner.us  
http://www.cobygardner.com  
http://www.codygardner.net  
http://www.teamcory.com  
http://www.teamgardner.com  
-----  
EOF
```



# Results

- Scanning was a multi-year project
- Now have lots of log files and screenshots taking up Google's cloud storage
- Lots of results for non-election related pages
  - False positives everywhere
  - Lots of parked domains
- Didn't find a lot of malicious activity
  - Found mostly slanderous sites
- No statistical analysis

# Slanderous Sites

- We call this mukraking
  - Someone purchases a domain that people are likely to visit
  - Places negative information
- These sites may be blogs from citizens, or sites set up by their opponent
- Probably legal (1<sup>st</sup> amendment)
- Mukraking sites are the most common “interesting thing” that we identified



# MAR<sub>x</sub> UDALL '14



BECAUSE IF YOU LIKE YOUR SENATOR WHO  
VOTED FOR OBAMACARE,  
YOU CAN KEEP HIM. PERIOD.



[Home](#) [2008](#) [???](#)

## We're Back

11/04/2014



[Tweet](#) 0

[Log In](#)

## Koch Addict

03/19/2014

[0 Comments](#)

If the trend continues, the first email from the Udall campaign that only has the words "Koch" and "brothers" in it is imminent. And why not? Pavlov never used salad, worked out for him.

To be sure, we realize who and what campaign emails are for, but seriously? This is embarrassing.

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### Archives

[November 2014](#)

[March 2014](#)

[January 2014](#)



Women



Middle Class



Seniors



Energy &  
Environment



Immigration



LGBT Rights

# CONGRESSWOMAN SHELLEY CAPITO

IS CONGRESSWOMAN CAPITO USING HER OFFICE TO GET A PARDON FOR HER FATHER?

WEDNESDAY, FEBRUARY 21, 2007

## Hypocrite and Coward

Shelley said that while she agrees with the content of the resolution against the escalation, she fears that the Democrats may see it as a first step towards taking away funding from existing troops in the field.

Why don't you just do the right thing, one way or another. The resolution said nothing about funding. Either yes or no. Your behavior leads us to believe that you are just like your Daddy: being whatever people want him to be for the right price.

Labels: war

POSTED BY WVAGAINSTCORRUPTION AT 1:39 PM 0 COMMENTS

THURSDAY, JANUARY 11, 2007

## Shelley to run against Rockefeller?

POSTED BY WVAGAINSTCORRUPTION AT 11:02 AM 1 COMMENTS

WEDNESDAY, NOVEMBER 08, 2006

### ABOUT ME

WVAGAINSTCORRUPTION  
WEST VIRGINIA, UNITED STATES

[VIEW MY COMPLETE PROFILE](#)

### LINKS

[modernamerica](#)  
[backporch politics](#)

### PREVIOUS POSTS

- [Hypocrite and Coward](#)
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- [I guess I shouldn't be surprised that the convicte...](#)
- [One Breath Shelley is one breath away from this en...](#)
- [Capito attacking free speech](#)
- [Scandal at the Gate: Capito contributors under in...](#)
- [Flashback: Go back to the archive to find out She...](#)
- [Dale Gurniak says: Abuse off Del...](#)

# FREEHOLDER AIMEE BELGARD

Welcome to FreeholderBelgard.com!

The place to get the true story about say-one-thing, do another, perennial politician Aimee Belgard.

For instance...

Belgard said that she wouldn't take a salary as Freeholder, then she did.

Belgard bragged about not raising taxes, then she did. Again and again and again.



# Identifying Typosquatters

Mitch McConnell – R – KY – Senate

Alison Grimes – D - KY - Senate

## 2014 KY Senate Race

ElectionBuster Scan Results:

Total run time was (39887.82146000862, 'seconds')

-----  
Positive results:  
-----

http://www.mitchmccconnell.com  
http://www.mitchmccconnell.us  
http://www.mccconnell2014.com  
http://www.senatormitchmccconnell.com  
http://www.senatormitchmccconnell.org  
http://www.mitchmccconnall.com  
http://www.mitchmccconnell.com  
http://www.mitchmccconell.com  
**http://www.mitchmccconell.org**  
http://www.mitchmccconnel.com  
http://www.mccconnell2016.com

## Results:

http://www.mitchmccconell.org  
HTTP/1.1 302 Moved Temporarily  
Server: nginx  
Date: Mon, 22 Sep 2014 12:43:20 GMT  
Content-Type: text/html  
Content-Length: 154  
Connection: keep-alive  
Location: http://www.alisonforky.com

**Attribution is difficult. With WHOIS information redacted, we have no idea who registered the domain.**

# Predicting who will Run

<http://www.chrischristie.com>

<http://www.chrischristie.net>

<http://www.chrischristie.me>

<http://www.chrischristie.org>

<http://www.chrischristie.biz>

<http://www.chrischristie.us>

<http://www.chris-christie.com>

<http://www.chris-christie.net>

<http://www.chris-christie.org>

<http://www.chris-christie.info>

<http://www.chris-christie.us>

<http://www.chris2016.com>

<http://www.christie2016.com>

<http://www.christie2016.net>

<http://www.christie2016.org>

<http://www.christie2016.biz>

<http://www.christie2016.info>

<http://www.christie2016.us>

<http://www.chrischristie2016.com>

<http://www.chrischristie2016.net>

<http://www.chrischristie2016.me>

<http://www.chrischristie2016.org>

<http://www.chrischristie2016.biz>

<http://www.chrischristie2016.info>

<http://www.chrischristieforpresident.info>

<http://www.chrischristie4president.com>

<http://www.chrischristie4president.net>

<http://www.chrischristie4president.info>

<http://www.chrischristie4president.us>

<http://www.chrisforpresident.com>

<http://www.chrisforpresident.net>

<http://www.presidentchrischristie.com>

<http://www.presidentchrischristie.net>

<http://www.presidentchrischristie.info>

<http://www.presidentchrischristie.us>

<http://www.chrischristieforNJ.com>

<http://www.christieforNJ.com>



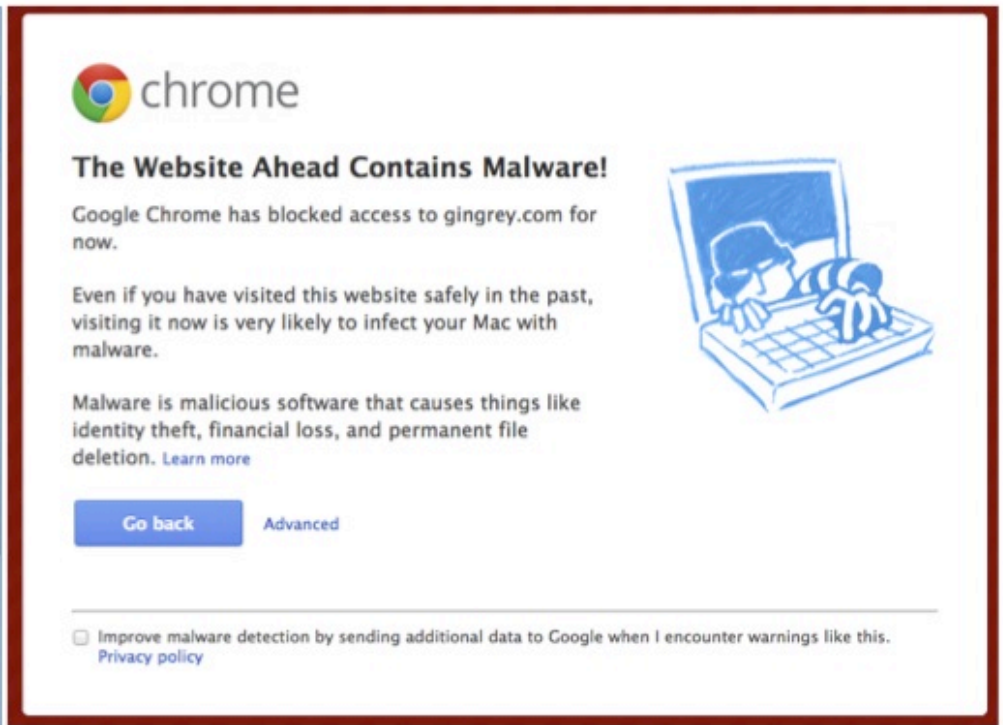
# Predicting who will Run

<http://www.hillary2016.com>  
<http://www.hillary2016.net>  
<http://www.hillary2016.biz>  
<http://www.hillary2016.info>  
<http://www.hillary2016.us>  
<http://www.clinton2016.net>  
<http://www.clinton2016.me>  
<http://www.clinton2016.biz>  
<http://www.clinton2016.info>  
<http://www.clinton2016.us>  
<http://www.hillaryclinton2016.com>  
<http://www.hillaryclinton2016.net>  
<http://www.hillaryclinton2016.me>  
<http://www.hillaryclinton2016.org>  
<http://www.hillaryclinton2016.biz>  
<http://www.hillaryclinton2016.info>  
<http://www.hillaryclinton2016.us>  
<http://www.hillaryclintonforpresident.com>

<http://www.hillaryclintonforpresident.org>  
<http://www.hillaryclintonforpresident.info>  
<http://www.hillaryclinton4president.com>  
<http://www.hillaryclinton4president.org>  
<http://www.hillaryforpresident.com>  
<http://www.hillaryforpresident.net>  
<http://www.hillaryforpresident.org>  
<http://www.hillaryforpresident.biz>  
<http://www.hillaryforpresident.info>  
<http://www.hillaryforpresident.us>  
<http://www.hillary4president.com>  
<http://www.hillary4president.net>  
<http://www.hillary4president.me>  
<http://www.hillary4president.info>  
<http://www.hillary4president.us>  
<http://www.hillaryforpresident2016.com>  
<http://www.hillaryforpresident2016.net>  
<http://www.hillaryforpresident2016.org>  
<http://www.hillaryforpresident2016.biz>  
<http://www.hillaryforpresident2016.info>

# Malware

- Found real candidate's sites distributing malware
- We alerted candidate via Twitter



# Future Updates

- Make Election Buster faster
- Statistical analysis
- Use computer vision to automatically remove parked domains from results to make manual review easier
  - GoDaddy
  - Namecheap
  - Bluehost
  - Hover
  - Huge Domains



# Piping into WHOIS

- We have a giant list of domains – what now?
  - Pull down the WHOIS information for each domain, of course!
- Wrote a tool to parse it – Whoarethey.py
  - Relies on Google's (now deprecated) PYWhoIs library
- Found personal information from a variety of candidates

*Available on Github [here](#)*

# Personal Information

<http://www.alisongrimes4kentucky.us>

admin\_address1: [REDACTED]

admin\_address2: []

admin\_application\_purpose: P2

admin\_city: Lexington

admin\_country: United States

admin\_country\_code: US

admin\_email: [REDACTED]

admin\_id: CR146666828

admin\_name: Andrew Grimes

admin\_nexus\_category: C11

admin\_phone\_number: [REDACTED]

admin\_postal\_code: [REDACTED]

admin\_state\_province: [REDACTED]

billing\_address1: [REDACTED]

billing\_address2: []

billing\_application\_purpose: P2

billing\_city: [REDACTED]

billing\_country: United States

billing\_country\_code: US

billing\_email: [REDACTED]

billing\_id: CR146666829

billing\_name: [REDACTED]

billing\_nexus\_category: C11

registrant\_address2: []

registrant\_application\_purpose: P2

registrant\_city: [REDACTED]

registrant\_country: United States

registrant\_country\_code: US

registrant\_email: [REDACTED]

registrant\_id: CR146666826

registrant\_name: Andrew Grimes

registrant\_nexus\_category: C11

registrant\_phone\_number: [REDACTED]

registrant\_postal\_code: [REDACTED]

registrant\_state\_province: [REDACTED]

registrar: GODADDY.COM, INC.

registrar\_id: 146

registrar\_url: whois.godaddy.com

status: ok

tech\_address1: [REDACTED]

tech\_address2: []

tech\_application\_purpose: P2

tech\_city: Lexington

tech\_country: United States

tech\_country\_code: US

tech\_email: [REDACTED]

tech\_id: CR146666827

tech\_name: Andrew Grimes

tech\_nexus\_category: C11

tech\_phone\_number: [REDACTED]

tech\_postal\_code: [REDACTED]

tech state province: Kentucky

# PA House Republicans

- Most of the PA House Republicans use the same email to register domains
- Seems like a good idea
- Here's an example

http://www.repjames.com  
creation\_date: 2012-11-15 00:00:00  
domain\_name: ['REPJAMES.COM', 'REPJAMES.COM']  
emails: ['pahouserepublicans@gmail.com', 'pahouserepublicans@gmail.com', 'support@dyn.com']  
expiration\_date: 2015-11-15 00:00:00  
name\_servers: ['NS1.P10.DYNECT.NET', 'NS2.P10.DYNECT.NET', 'NS3.P10.DYNECT.NET', 'NS4.P10.DYNECT.NET']  
referral\_url: http://www.dyn.com  
registrar: DYNAMIC NETWORK SERVICES, INC  
status: ['clientDeleteProhibited', 'clientTransferProhibited', 'clientUpdateProhibited', 'clientDeleteProhibited']  
updated\_date: 2014-03-04 00:00:00  
whois\_server: whois.dyndns.com

R. Lee James – R – PA – State House

Rosemary Brown – R – PA – State House

Sheryl Delozier – R – PA – State House

**And many more...**

# Applying to Other Areas

- State, county, local government election sites
- Super PACs
  - Act Blue
  - Our Country Deserves Better
  - American Crossroads
  - House Majority
- Other interest groups

# Act Blue PAC

- Fundraising platform for Democrats
- When you push “donate” on a Democrat's site, you’re probably using Act Blue’s tech
- Kept showing up in scans
- No positive results

```
#####  
PACscan v1 Scan Results:  
#####  
INPUTS = actblue, 2014  
Total runtime was (19439.57004904747,  
There were 17 positive results.  
There were 14147 unique URLs tested.  
-----  
Positive results:  
-----  
http://www.actblue.com →  
http://www.actblue.net → Real sites  
http://www.actblue.org →  
http://www.atblue.com  
http://www.acblue.com  
http://www.act4blue.com  
http://www.act4blue.net  
http://www.act4blue.org  
http://www.altblue.com  
http://www.altblue.net  
http://www.antblue.com  
http://www.artblue.net  
http://www.artblue.me  
http://www.artblue.us
```



# Our Country Deserves Better PAC

- Large Republican SuperPAC
- Not as active in 2014
- No positive results

```
#####  
PACscan v1 Scan Results:  
#####  
INPUTS = ourcountrydeservesbetter, 2014  
Total runtime was (54481.58076405525, 'seconds')  
There were 1 positive results.  
There were 40754 unique URLs tested.
```

-----  
Positive results:  
-----

<http://www.ourcountrydeservesbetter.com>



-----  
Real site

# MD State Board of Elections

- Saw message below, so let's scan it
- Never reviewed the results for this until Oct 2015
- Still analyzing

**Potential phishing alert! Legitimate emails from the State Board of Elections end with [maryland.gov](http://maryland.gov). If you receive an email stating that it is from "The State Board of Elections" from an email address that does not end with [maryland.gov](http://maryland.gov), do not open the email and delete it immediately.**

```
#####
PACscan v1 Scan Results:
#####
INPUTS = elections.state.md, 2014
Total runtime was (78352.55301308632, 'seconds')
There were 2753 positive results.
There were 31696 unique URLs tested.
```

-----  
Positive results:  
-----

```
http://www.elections.state.md.com
http://www.elections.state.md.org
http://www.elections.state.md.us
```

```
http://www.elect1ons.state.md.com
http://www.elect1ons.state.md.org
http://www.eiections.state.md.com
http://www.eiections.state.md.org
http://www.electlons.state.md.com
http://www.electlons.state.md.org
http://www.electi0ns.state.md.com
http://www.electi0ns.state.md.org
http://www.electionms.state.md.com
http://www.electionms.state.md.org
http://www.elections.state.nd.net
http://www.elections.state.nd.org
http://www.elections.state.nd.biz
http://www.3l3ctions.stat3.md.com
http://www.3l3ctions.stat3.md.org
```

Real site

Shady?

# 2016 Presidential Hopefuls



- BLOG
- REGISTER TO VOTE
- PLATFORM
- PROPOSED CONSTITUTION
- DECLARATION
- FAQ



## DEMAND REAL CHANGE FOR AMERICA

It's time to consider a redirection of American law and justice that reflect modern-day ideals and realities.

Introducing a new American political party platform that offers a viable strategic alternative to the American governing system.

The Humanity Party™ calls for a civil uprising demanding real change of the political status quo, held peacefully and according to law at voting booths throughout the United States and its Districts during the 2016 Presidential election.

Americans can declare that they refuse to continue toleration of a flawed system, and demand that the United States institute a more humane government. To rise for change, simply [register to vote](#) and at the polling booth on the day of elections, write in the word ANONYMOUS.



### THumP™ BLOG

The Worldwide Humanity Party™—Creating a New World O...  
(NOTE: The following are excerpts from the rough draft of the Humanity Party's™ political platform that will be released as an option to the world.

# D'BRICKSHAW'S 15 REASONS NOT TO VOTE FOR DONALD TRUMP IN 2016

HOME



You aren't seriously considering voting for Donald Trump, are you?

#trumpyourcat

Home



**Don't be an idiot.**

Donald Trump is not a viable candidate.

**STOP. JUST STOP.**

You have a job, right? You have healthcare, right?

Then, don't vote for Donald Trump because all of this will change.

# TRUMP

MAKE AMERICA GREAT AGAIN!

Donald J Trump

DonaldJTrump

Videos

Gallery

Fans Facebook Pages

We The People Blogs

The Billionaire



# TRUMP

## 2016

Stop

Give...Like

LIVESTREAM Events

Poll



Donald J. Trump  
4,038,595 likes

Would you like to see Don  
the White House  
 He is the Man

## Ronald Trump 2016

HOME

SHOP

OUR STORY

CONTACT US



Carly Fiorina failed to register this domain.

So I'm using it to tell you how many people she laid off at Hewlett-Packard.

*It was this many:*



That's *30,000 people* she laid off. People with families.



# PRESIDENTIAL CAMPAIGN OF DONALD EUGENE LOWE



HOME

ABOUT

CONTACT DONATE

TOPICS

YOU AND ME



"Believe you can and you're halfway there."

Theodore Roosevelt



## WORKING HARD FOR YOU

I am Presidential Candidate Donald Eugene Lowe running for President of United States and I'm committed to making *your voice* heard on Capitol Hill. Like you, I want to play an active role in making my community, state and country a safer, better place to raise my children, run my business, and forge a future filled with unlimited promise.

If you share my vision, I urge you to connect with me and help make it happen! Together, we can make a meaningful difference-- for our families, our communities, and our country.



Bernie Sanders – D– VT – President

BERNIE SANDERS, THE INDEPENDENT UNITED STATES SENATOR FROM VERMONT  
IS ASKING US IF WE THE PEOPLE WILL STAND UP FOR DEMOCRACY IN 20

[bernie4prez.org](http://bernie4prez.org)



PHOTO CRI  
STUMPSOURCE, I

[www.bernie4prez.org](http://www.bernie4prez.org)

Bernie For President!

Contact me to get your favorite Bernie in the race!

Home



It's never too early to start thinking about 2016! Who says Hillary is a shoe in!

Vote Now!



Vermont's junior senator! Bernie Sanders!



Bernie Lomax!

## Elect Bernie Sanders

Bernie Sanders for President

Who is Bernie

## Bernie Sanders for President

### Welcome!

In a large field of presidential contenders, unqualified for the office they seek, Sen. S most competent of the bunch. Sen. Sand with a firm understanding of the problems He offers sound proposals to tackle those

Some have mocked Sen. Sanders as an pragmatic idealist - a realist with high idea American people - who is willing to respon concerns faced by ordinary Americans.



SANDERS  
COURT OF APPEALS

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## KENTUCKY COURT OF JUSTICE SUPREME COURT & COURT OF APPEALS DISTRICTS

- 1st District
- 2nd District
- 3rd District
- 4th District
- 5th District
- 6th District
- 7th District

Learn more about the Kentucky Court of Appeals

# Bernie The Real Peoples candidate For President 2016

Sen. Bernie Sanders (I) Vermont is a tireless advocate for working families, the elderly and the underprivileged. He supports ending tax cuts for the rich and corporate tax loopholes which cost our country Billions of Dollars in lost revenue each year. Bernie has not been bought by Big Business and the Very Rich, he would focus on creating jobs, the environment and rebuilding America. Bernie is Of the People, By The People and For the People of the USA. Bernie Sanders for President 2016.

# Odds and Ends

# Political Domain Registrars

- Registrars squat on popular names
- [PoliticalWebNames.com](http://PoliticalWebNames.com) is popular



This domain is for sale - along with a few others outlined below - please contact Joel @ 480-772-1220 or 602-626-7423

CLINTONREID.COM  
CLINTONKERRY.COM  
CLINTONSCHUMER.COM  
CLINTONLIEBERMAN.COM  
CLINTONABEDIN.COM  
CLINTONBOXER.COM  
CLINTONPELOSI.COM  
LIEBERMAN2016.COM  
UDALL2016.COM

Where People Look First For Political Domains  
**PoliticalWebNames.com**

Home | Our Services | Available Domain Names | Online Campaign Tips | FAQ | About Us

**HELPFUL ARTICLES**

- Political Website Basics for Dummies
- Choosing a Good Domain Name for your Campaign
- The Candidate Who Died but Whose Good Name Lives On!
- Campaign Domain Names: Billboards not Real Estate
- Games People Play
- Find a Domain: List of Our

**www.knightforcongress.com**  
*is now Available!*

You Found This Website...  
So Will Your Voters...  
And Your Competitors!  
You just proved that voters will come here.

- Your Voters want Information about You!
- Your Competitors will be Happy to Provide them some on this domain!

Poll: You've been chosen  
Take a five question survey on Obama and your vote for Congress.

**Poll 2016**  
a Collection of Election 2016 Domain Names for sale - Including this one!

Menu

Please contact if interested info@poll2016.com or through the web form. The following domains are for sale.

Domain	Type	Availability
BUSH4PRES16.COM	.com	Available
BUSH4PREZ.COM	.com	Available
BUSH4HATTRICK.COM	.com	Available
BUSH4RUNS.COM	.com	Available
BUSH4THREEPEAT.COM	.com	Available
CLINTON4PRES16.COM	.com	Available
CLINTON4PREZ16.COM	.com	Available
CLINTONISPRES.COM	.com	Available
CLINTONISPRESIDENT.COM	.com	Available
CLINTONPRES.COM	.com	Available
HILLARYCLINTONCAPAIGN.COM	.com	Available
IWANTCLINTON.COM	.com	Available
IWANTJEB.COM	.com	Available
IWANTJEB16.COM	.com	Available
JEB16.COM	.com	Available
JEB2016.COM	.com	Available

# Most American Domain



[Home](#) [About Packing NH](#) [Donate](#) [State House Action](#) [Important Links](#) [2nd Amendment News](#) [Packing Blog](#) [Calendar](#)



# Recommendations & Conclusions

# Common Templates

Lname + Fname :: <http://www.barackobama.com>

Lname + '-' + Fname :: <http://www.chris-christie.com>

Fname + year :: <http://lepage2014.com>

Fname + Lname + year :: <http://johnwalsh2014.com>

Fname + 'for' + state :: <http://alisonforkentucky.com>

Fname + Lname + 'for' + state :: <http://www.edfitzgeraldforohio.com>

Lname + '4' + state :: <http://www.heck4nevada.com>

Fname + 'for' + position :: <https://bryansmithforcongress.com>

Position + Fname + Lname :: <http://www.congressmanbillyyoung.com>

'team' + Fname :: <http://www.teammitch.com>

'vote' + fName :: <http://www.voteal.com>

- Candidates need to decide which domains to purchase (e.g., .com, .net, .org, .me, .us)
- Our tool suggests domains you should purchase and it is being updated with new templates

*Note: Many of these links are now broken.*

# Conclusions

- Much less malicious traffic in 2014 General vs. 2012 Presidential
- Our tools and templates can be used by any candidate to protect their brand from typosquatting
- Candidates may want to defensively purchase many of the templates we list for their own brands
- Candidates should not put personal info into the WHOIS database
- Look twice before you donate!
- If you want a copy of our data – just ask



# Questions?



- @thejoshpit

[www.jfranklin.me/ElectionCybercrime](http://www.jfranklin.me/ElectionCybercrime)

# Acknowledgements

- Thanks to all our friends and family who supported us in this work
  - Our wives for putting up with us
  - Ben, Kenny, Jayson, Phil, etc
  - Everyone who I've bugged about this
- Big thanks to Amazon for the promotion we used to get 700 free hours of time on EC2!

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- Obama vs Romney:  
<http://www.flickr.com/photos/donkeyhotey/7189682629/>