

Exploring Server-Side Blocking

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ICSI



Sign In

Security Step

For your protection, you'll need to complete an additional security step.



Use this text code and enter the same in the text box below.



To continue, please enter the text you see above.

[Continue to sign in](#)

[Return to home page](#)



vinton g cerf

@vgcerf

Follow



The dunderheads at Verizon block access to myverizon.com account if you are overseas. I plan to cancel my service. idiots.

1:58 PM - 1 Sep 2017

16 Retweets 60 Likes



10



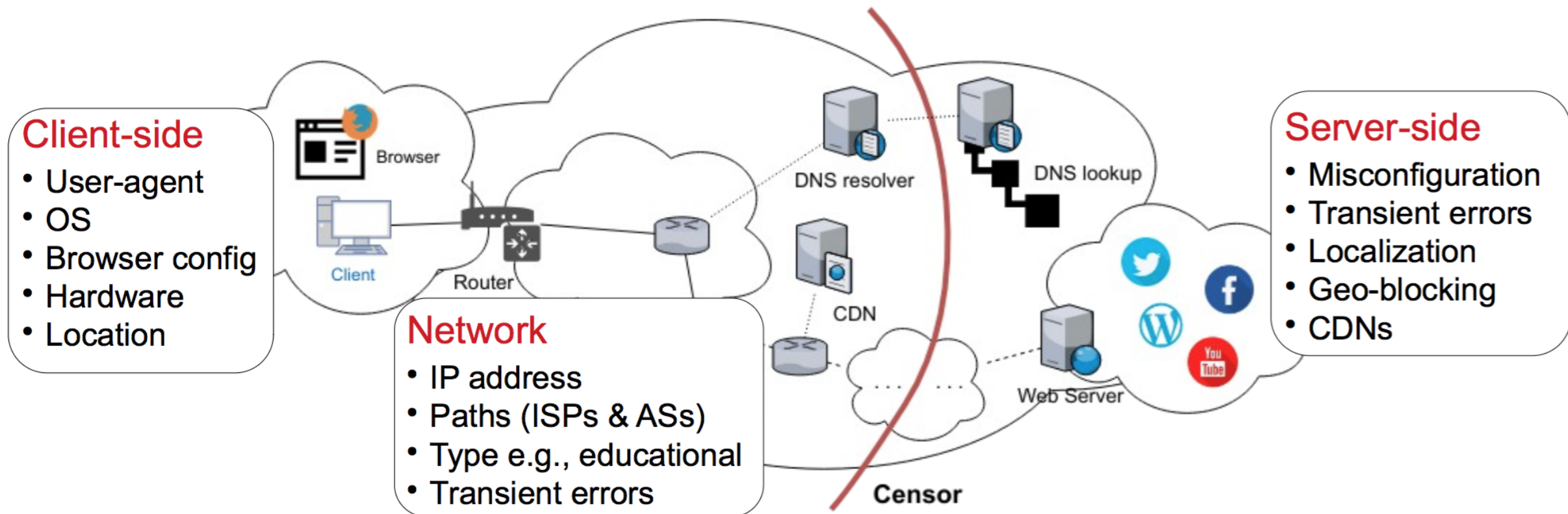
16



60

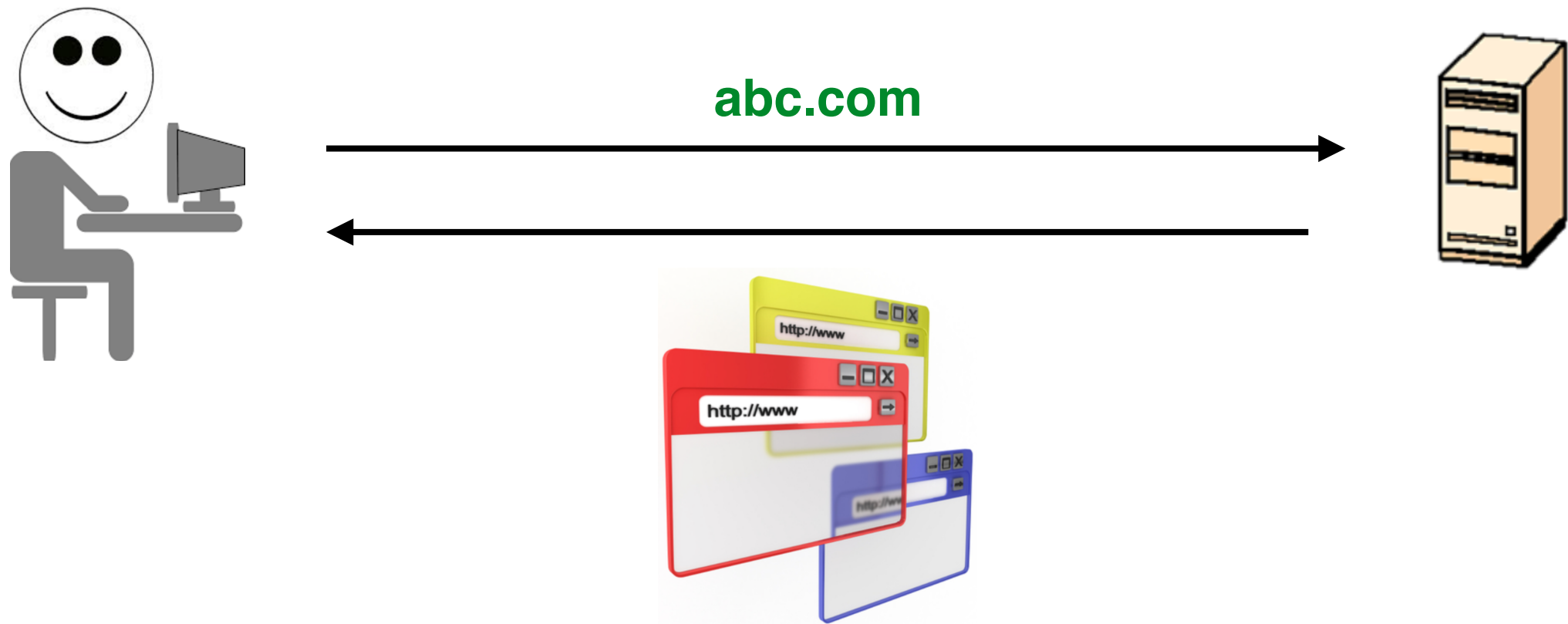


A website can be unavailable for many reasons

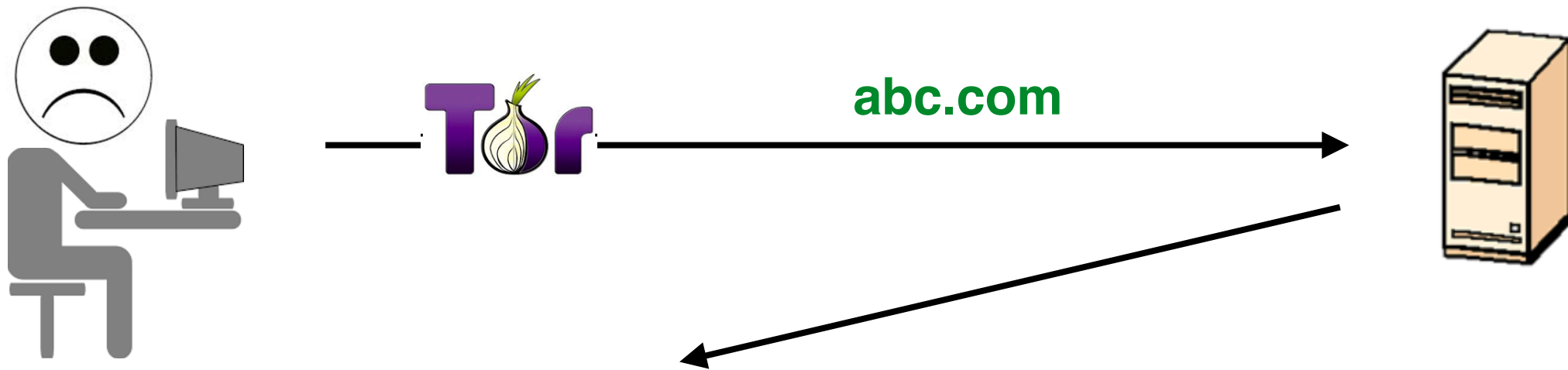


Server-Side Blocking of Tor (2015)

How **Regular** Users See the Web



How Tor Users See the Web



Access Denied

You don't have permission to access "http://www.foxnews.com/" on this server.

Reference #18.4d6e5668.1445538492.20b9c5ab

Error 403

Access denied. Your IP address [171.25.193.132] is blacklisted. If you feel this is in error please contact your hosting providers abuse department.

We're sorry, but we could not fulfill your request for / on this server.

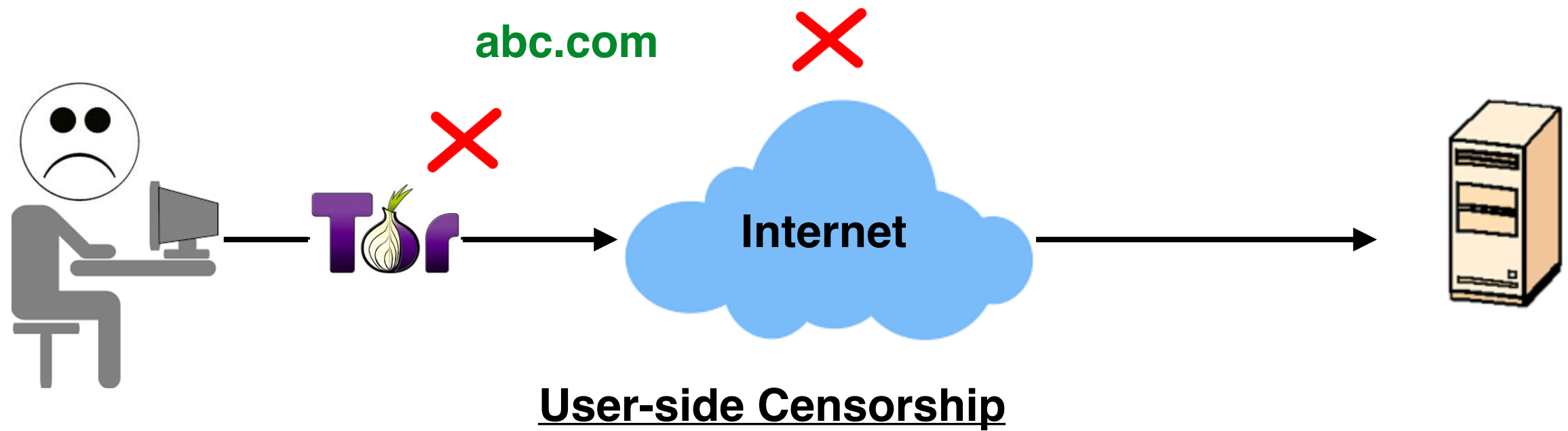
You do not have permission to access this server. Before trying again, run anti-virus and anti-spyware software and remove any viruses and spyware from your computer.

Your technical support key is: **591f-3905-2b02-1b1f**

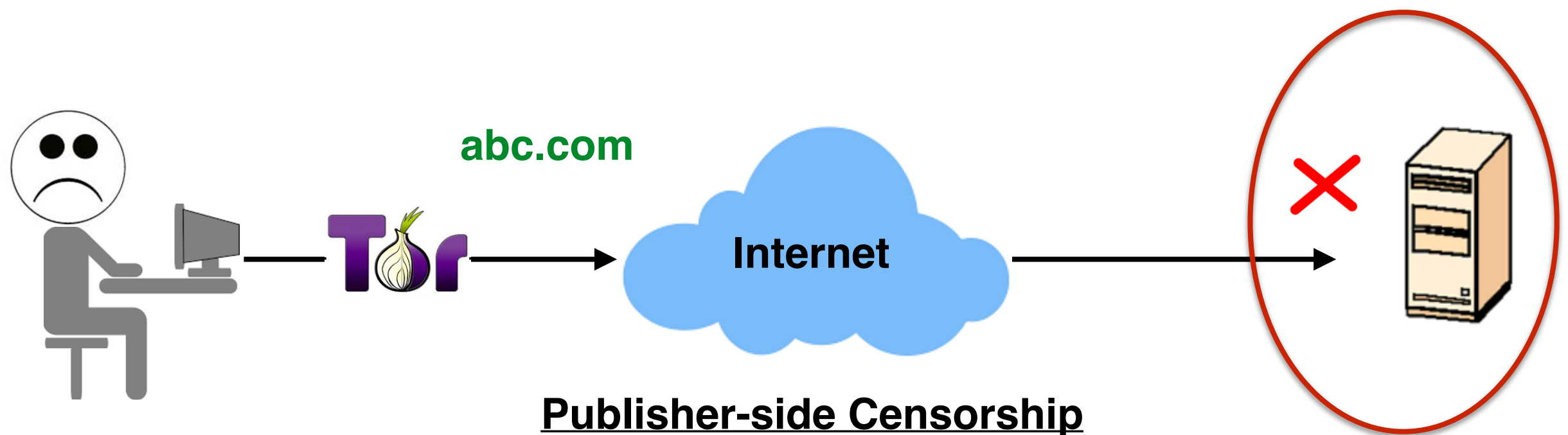
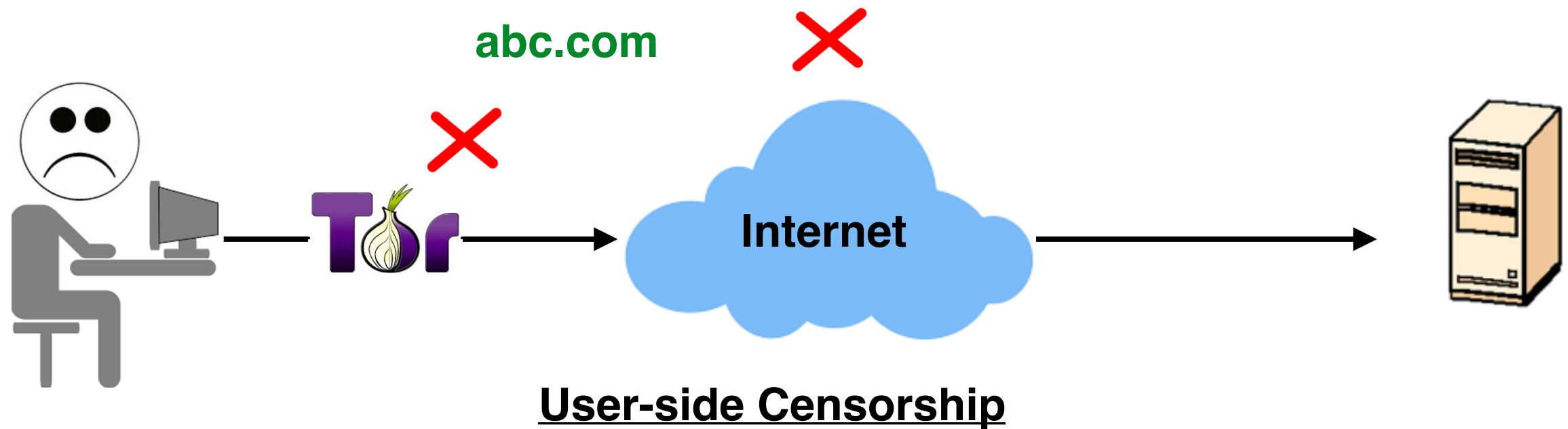
You can use this key to [fix this problem yourself](#).

If you are unable to fix the problem yourself, please contact [webmaster at monticello.org](mailto:webmaster@monticello.org) and be sure to provide the technical support key shown above.

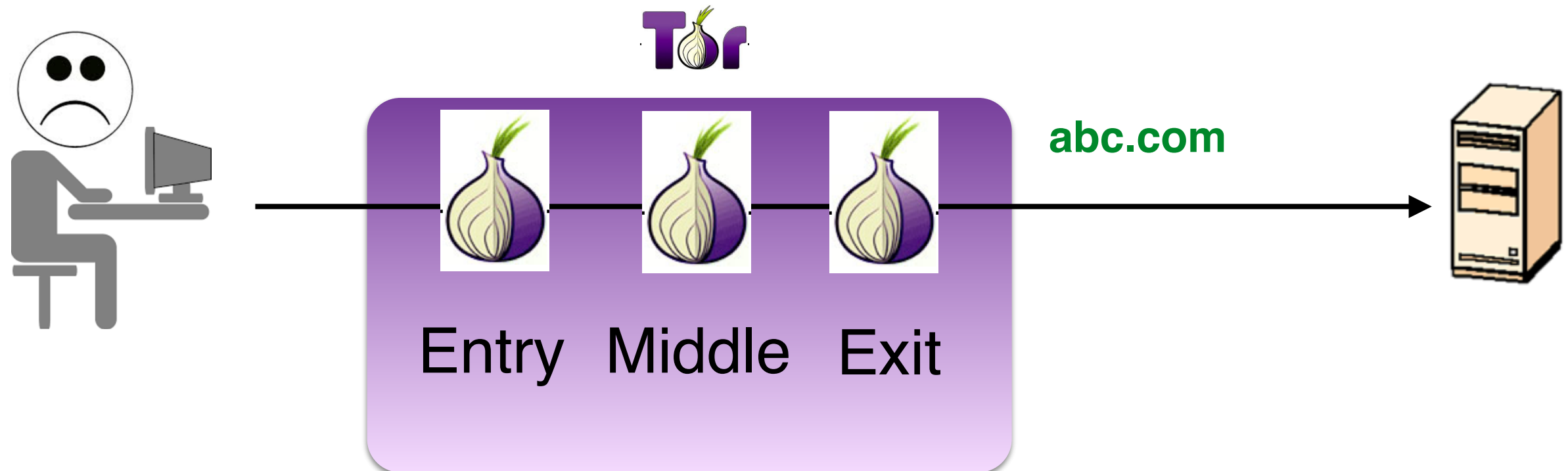
Difference w/ Traditional Censorship



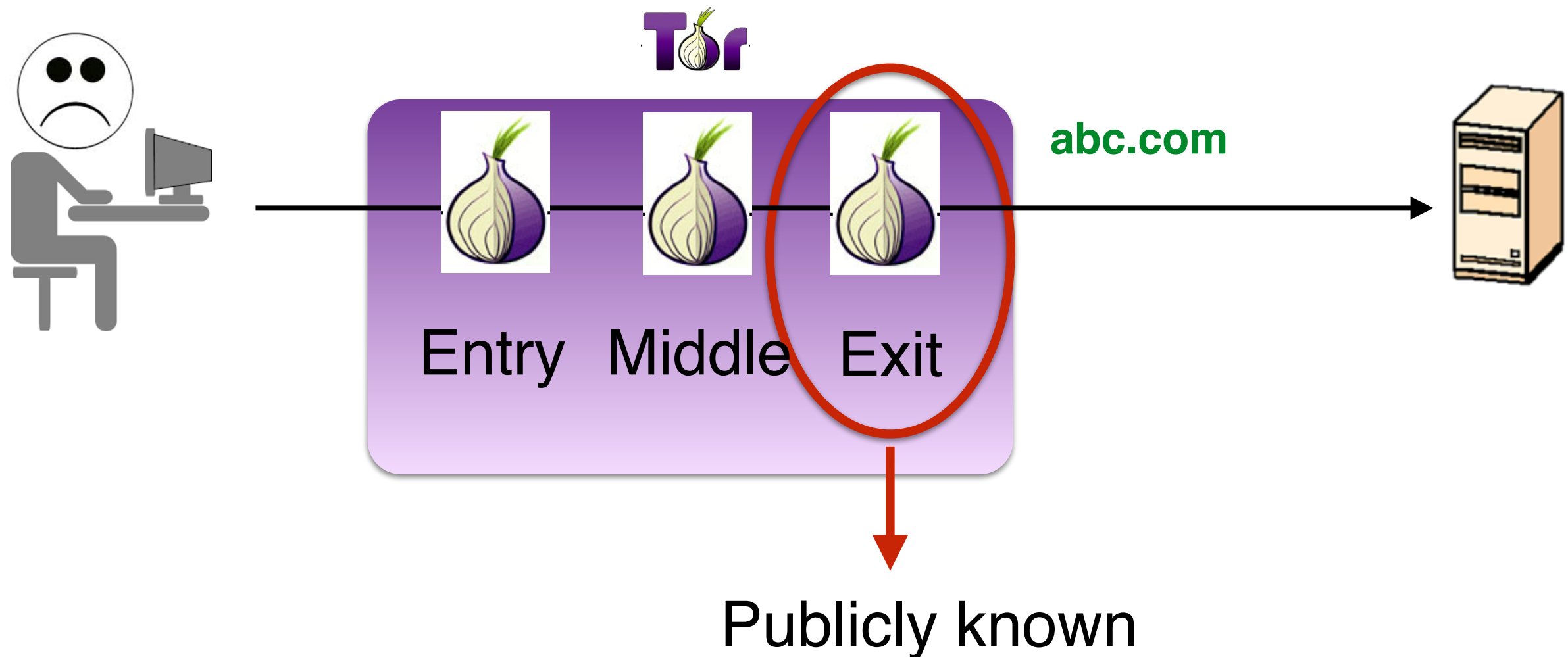
Difference w/ Traditional Censorship



How Do Websites Block Tor?



How Do Websites Block Tor?



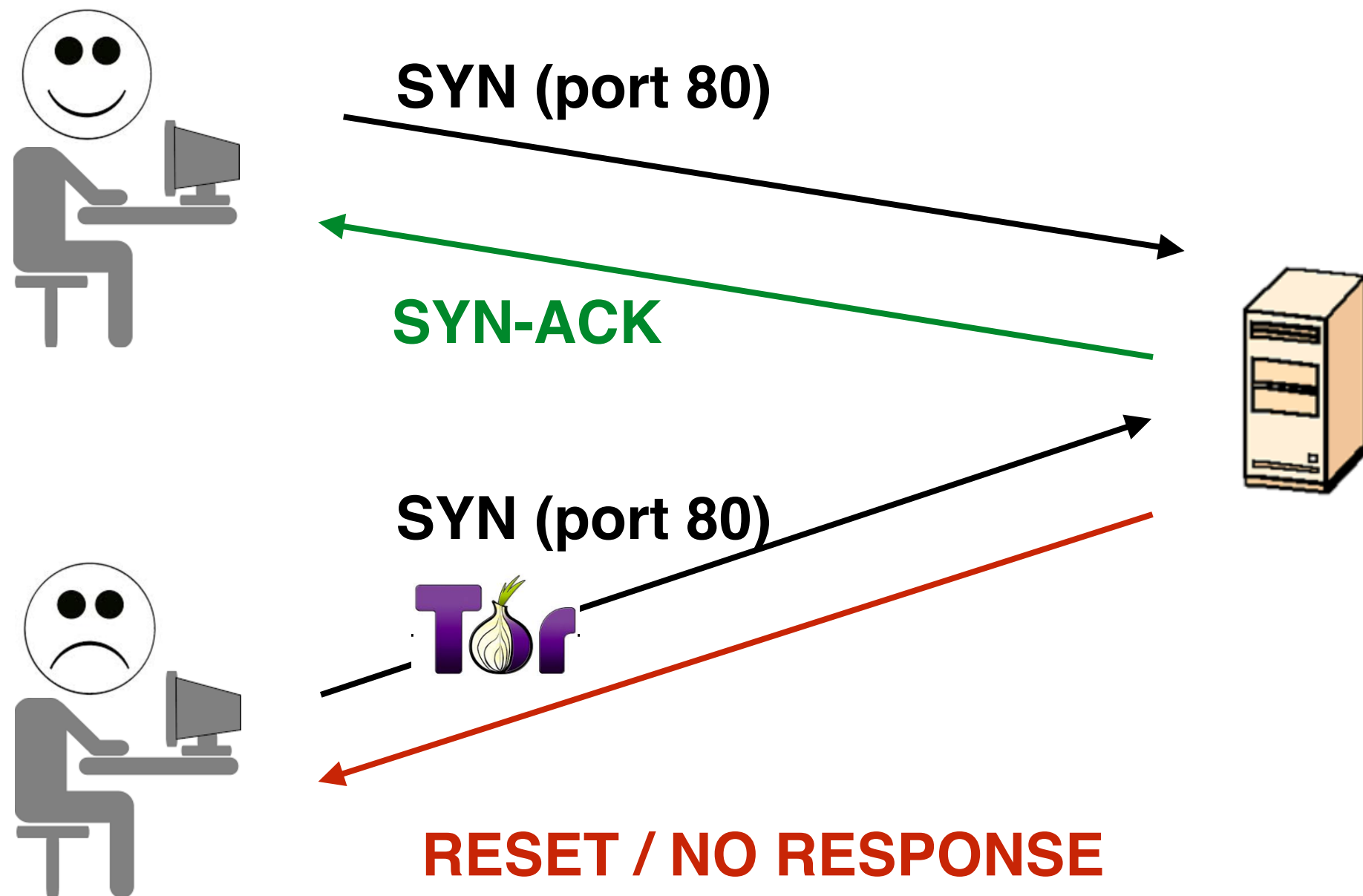
(<https://check.torproject.org/exit-addresses> for example.)

Measuring Tor Blocking by the Web

- Network layer blocking
- Application layer blocking
- Blocking over time (OONI)

Network-layer Discrimination

Does An IP Address Block Tor?



Measuring Tor Blocking at Scale



Scan IPv4

Control Node



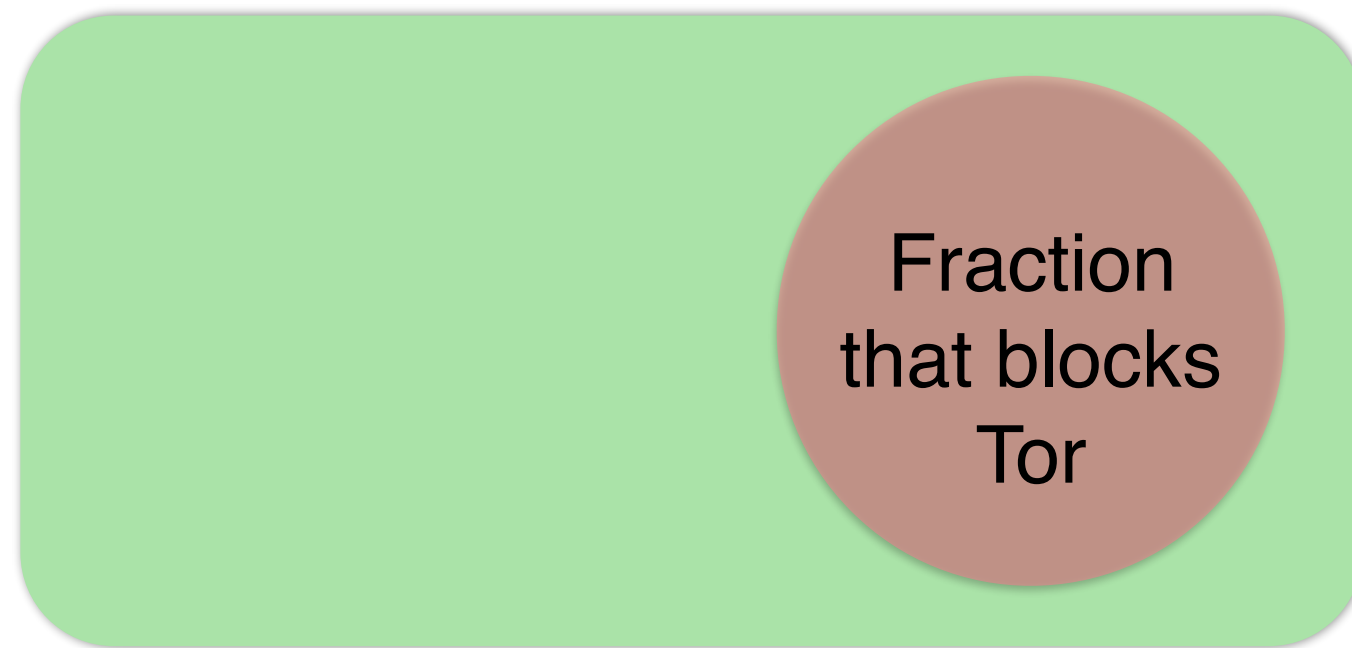
Scan IPv4

Tor Exit Node

- IPv4 ~ over 3 billion addrs
- 4 Tor Exit Nodes (USA, Romania, Netherlands)
- 3 Control Nodes (Michigan, Cambridge, Berkeley)

..But What is The Web?

- Web Footprint—a set of IP addresses that respond **successfully** to our **control scans** on port 80



Web Footprint

Challenges in Defining The Web

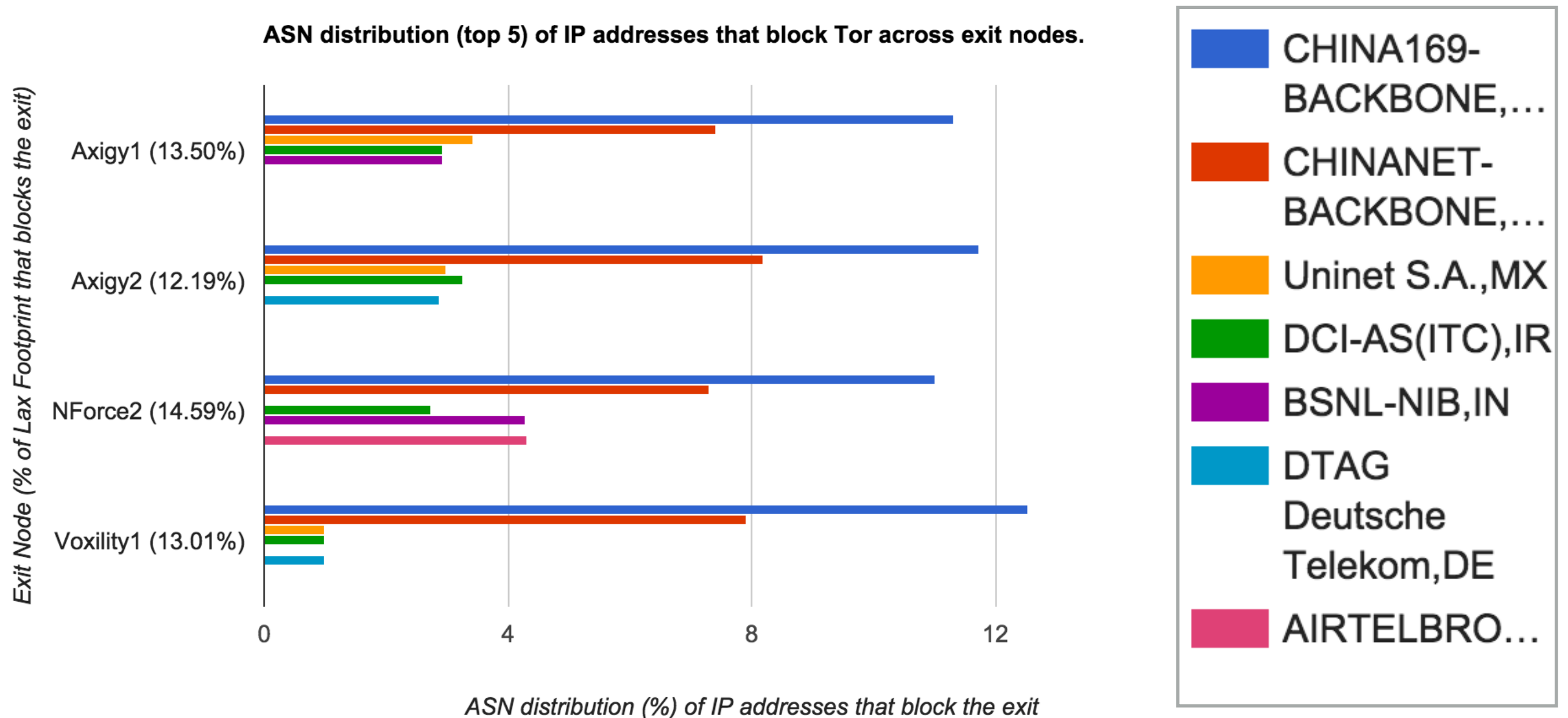
- What if a probe or response is lost?
 - ❖ Redundant probing
- Temporal and spatial churn in the Web Footprint:
 - ❖ Lax Web Footprint: IP addresses for which all control nodes see a response at least once (~96% of Web Footprint)
 - ❖ Strict Web Footprint: IP addresses for which all control nodes received a successful response on all days (~50% of Web Footprint)

Challenges in Defining The Web

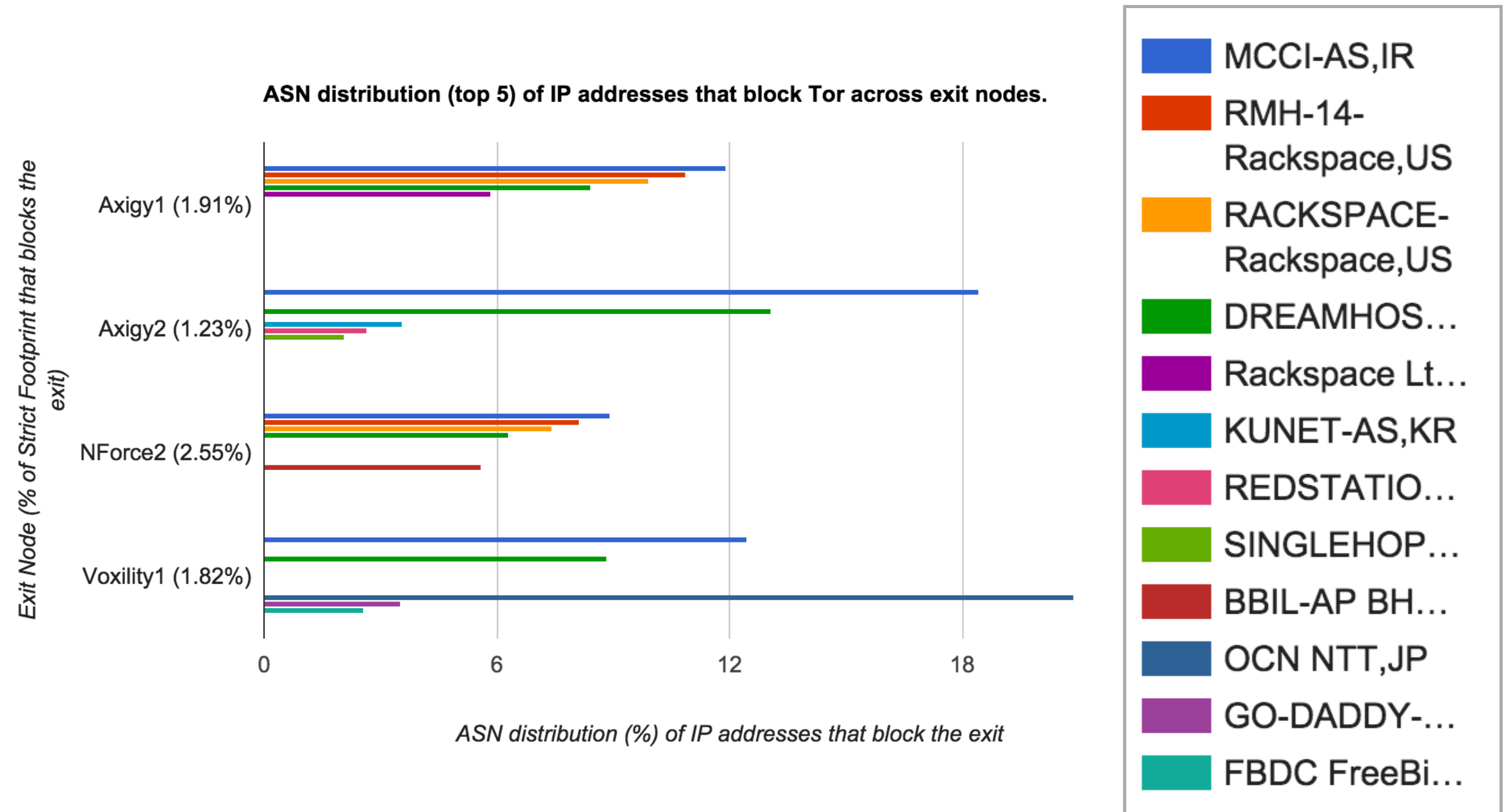
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At least 1.2% of the Web blocks Tor

AS distribution of Top 5 Tor Blockers (Lax Footprint)



AS distribution of Top 5 Tor Blockers (Strict Footprint)



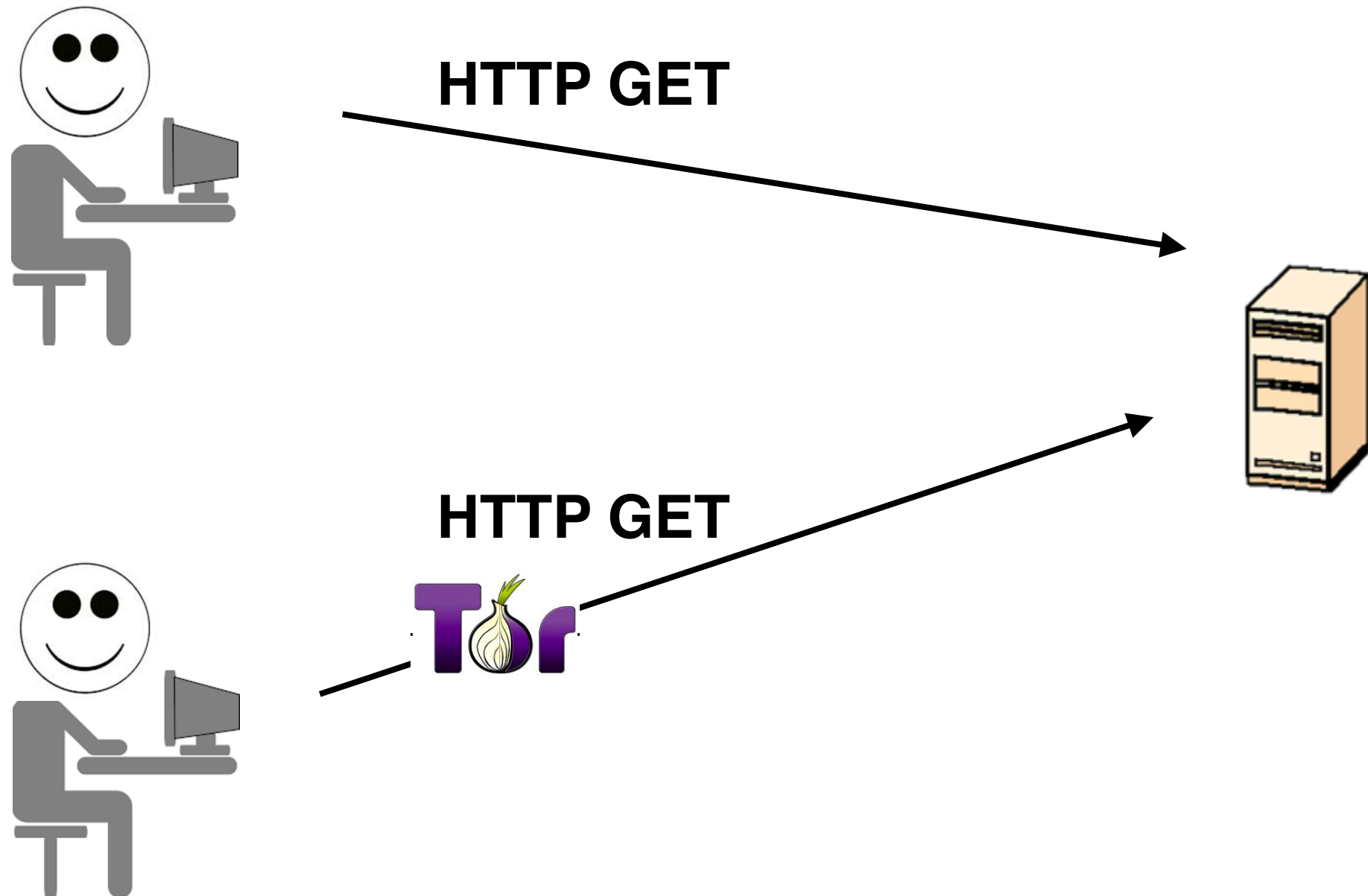
Geo Distribution of Top 5 ASes that do wholesale Tor blocking



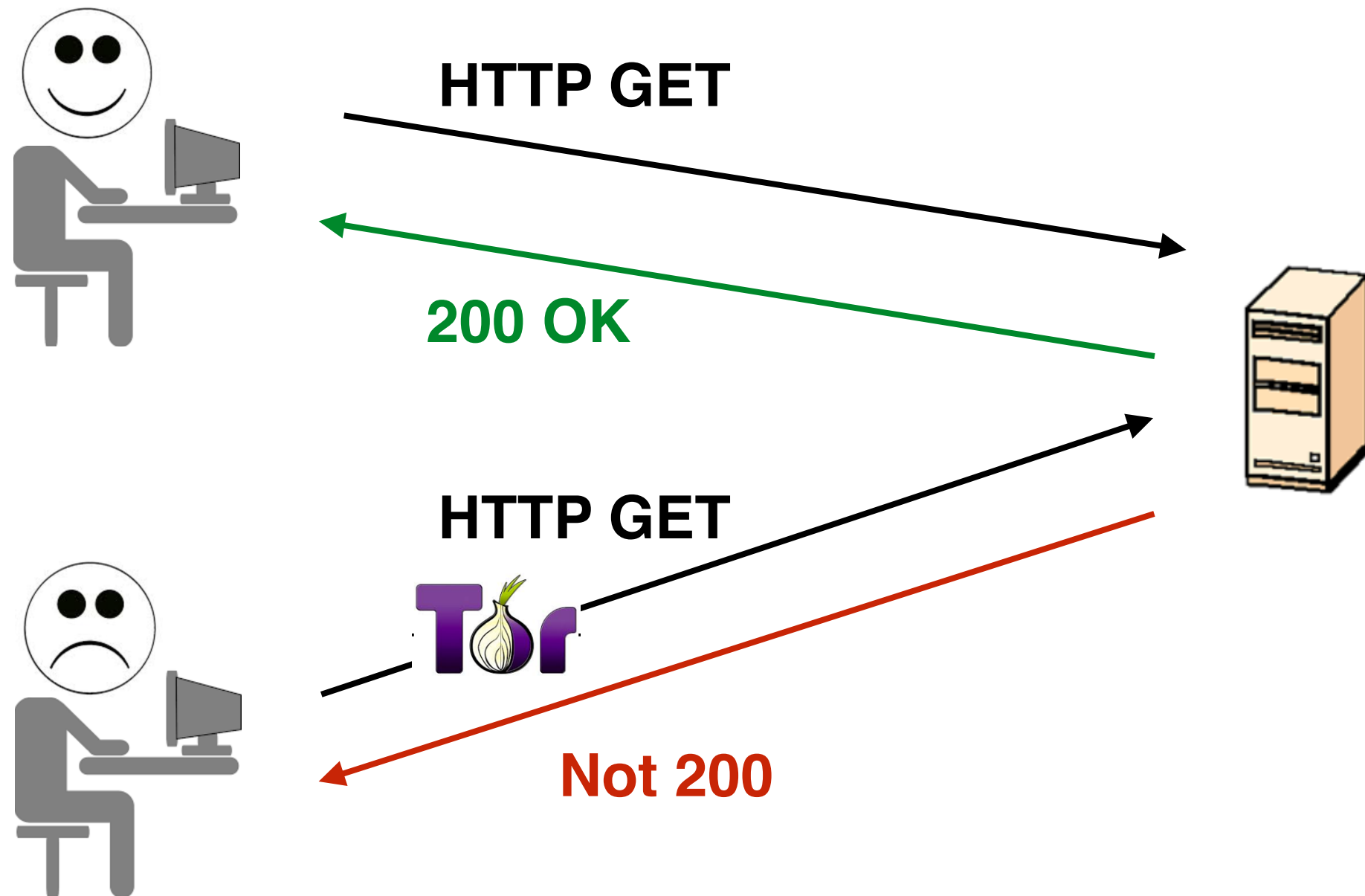
Axigy1 	Axigy2 	NForce2 	Voxility1 
MCCI-AS,IR RMH-14 - Rackspace,US RACKSPACE - Rackspace,US DREAMHOST-AS, LLC,US CNNIC-SGATHER-AP,CN	DREAMHOST-AS,US KUNET-AS,KR REDSTATION,GB LLC-SK-CONTINENT,RU tropicalweb-as,MZ	RMH-14-Rackspace,US RACKSPACE - Rackspace,US AIRCEL-IN Aircel Ltd.,IN DREAMHOST-AS, LLC,US Rackspace Ltd.,GB	OCN NTT Communications,JP DREAMHOST-AS, LLC,US KUNET-AS,KR BEKKOAME INTERNET INC.,JP tropicalweb-as,MZ

Application-layer Discrimination

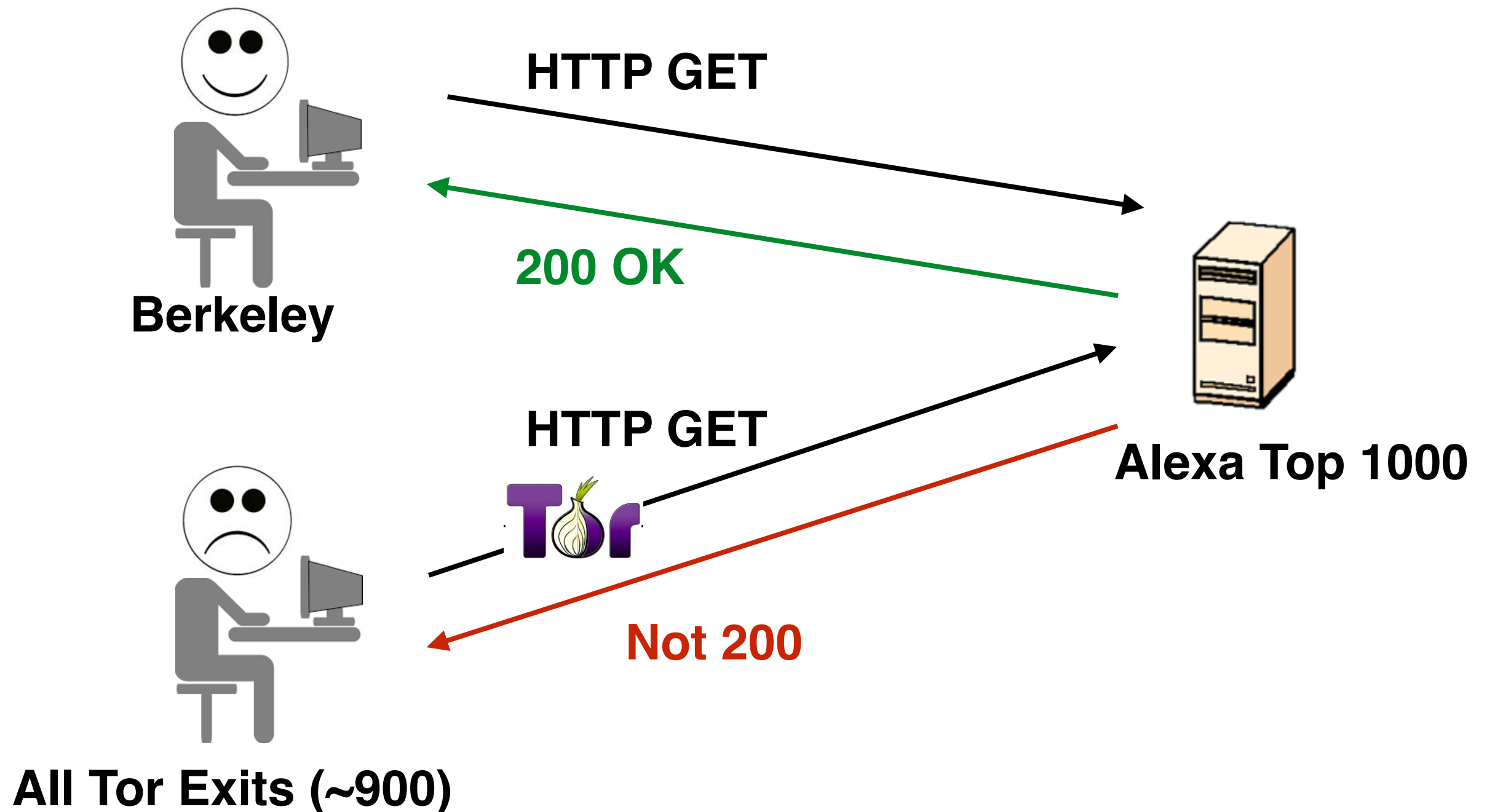
Does a Website Block Tor?



Does a Website Block Tor?



Does a Website Block Tor?



3.67% of Alexa Top 1k block Tor



Sorry, you're not allowed to access this page.

Your IP address is: 46.28.110.136

Please retry your request and [contact Yelp](#) if you continue experiencing issues.



This IP has been automatically blocked.
If you have questions, please email: blocks-b1451523930



Request denied

Sorry, we are unable to serve your request at this time due to unusual traffic from your network connection.

Please visit our [help page](#) and provide the information below for further assistance.

Reason codes:

3.67% of Alexa Top 1k block Tor

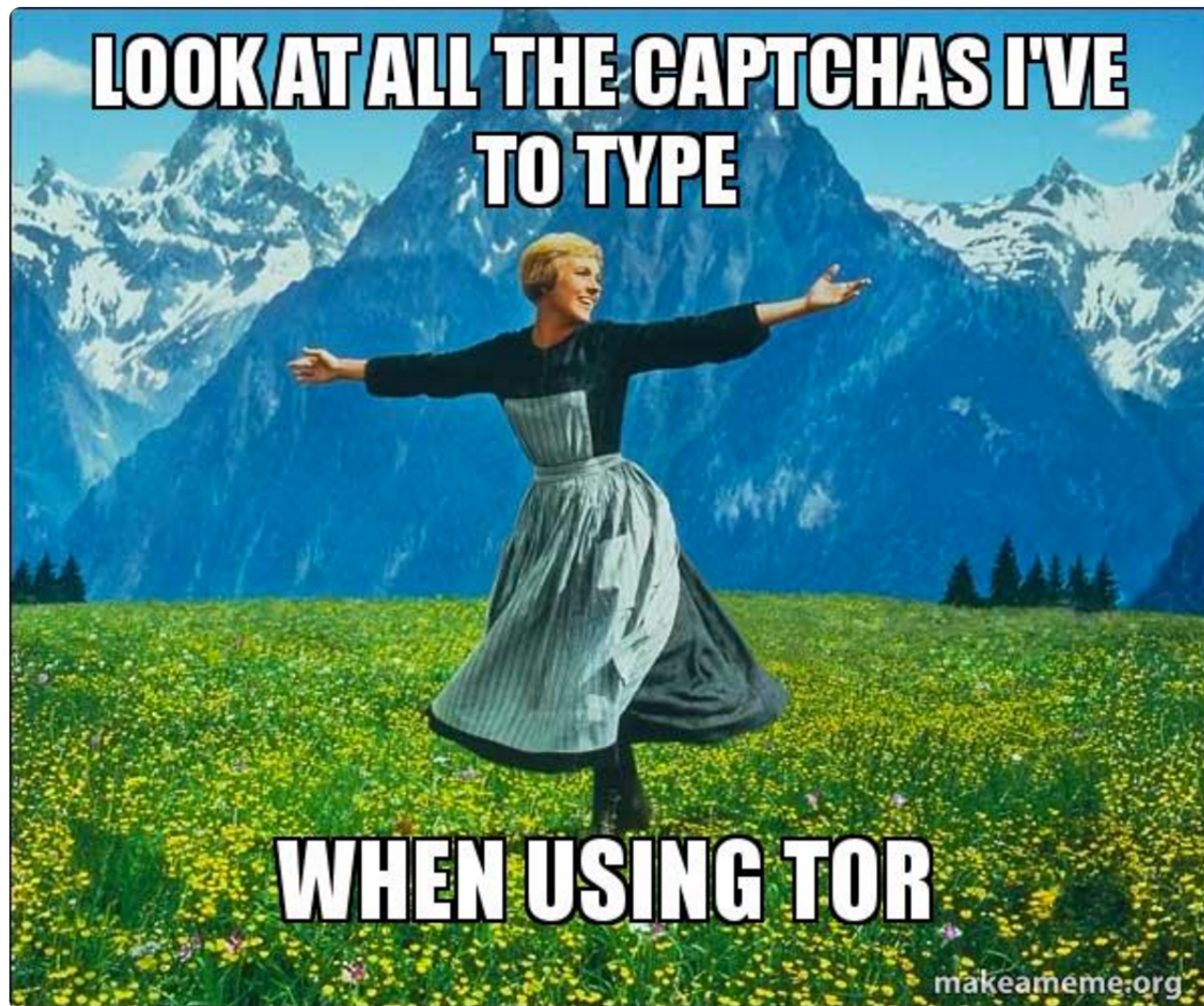


- “You don’t have permission to access this website”

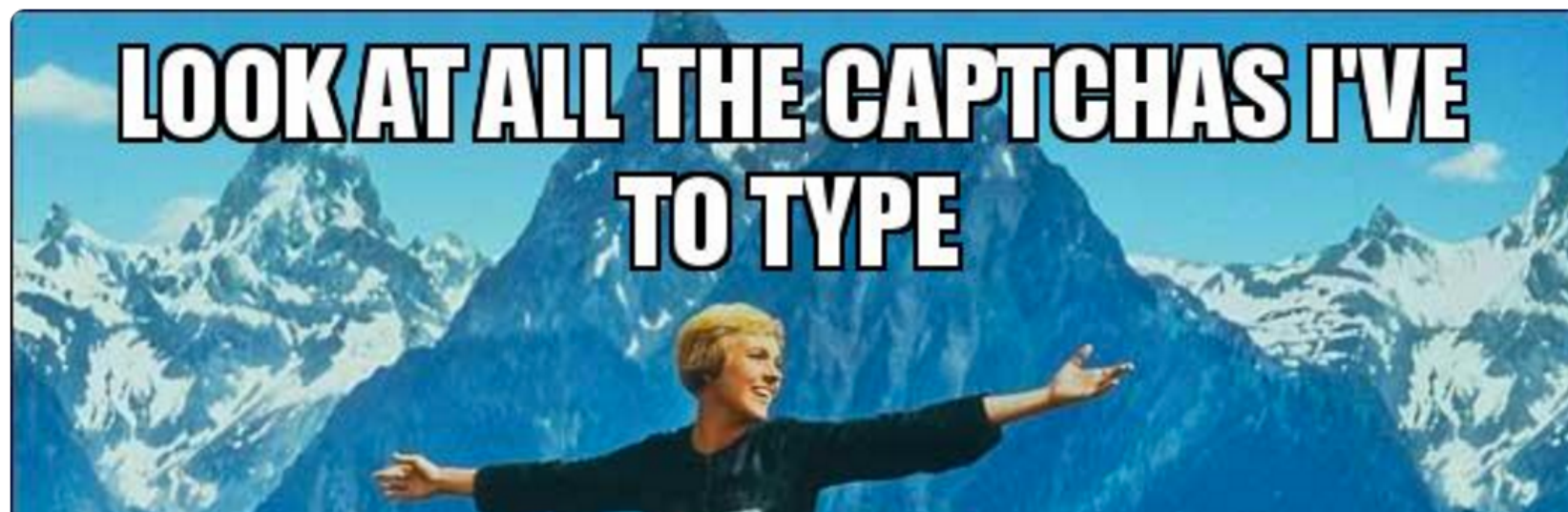


- Shows CAPTCHA

[#dontblocktor](#)



[#dontblocktor](#)

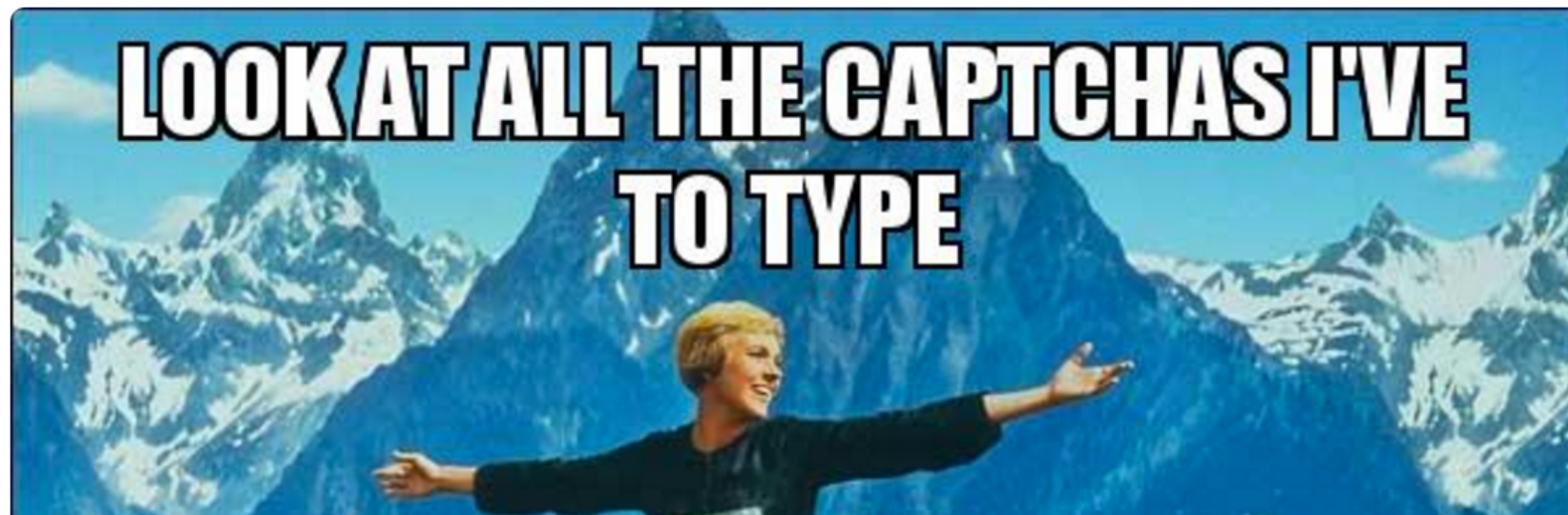


On February 9th, 2016 Anonymous said:
Tor is DEAD!
And Cloudflare KILLED it!
RIP Tor!

[reply](#)



[#dontblocktor](#)



On February 9th, 2016 Anonymous said:

Tor is DEAD!

And Cloudflare KILLED it!

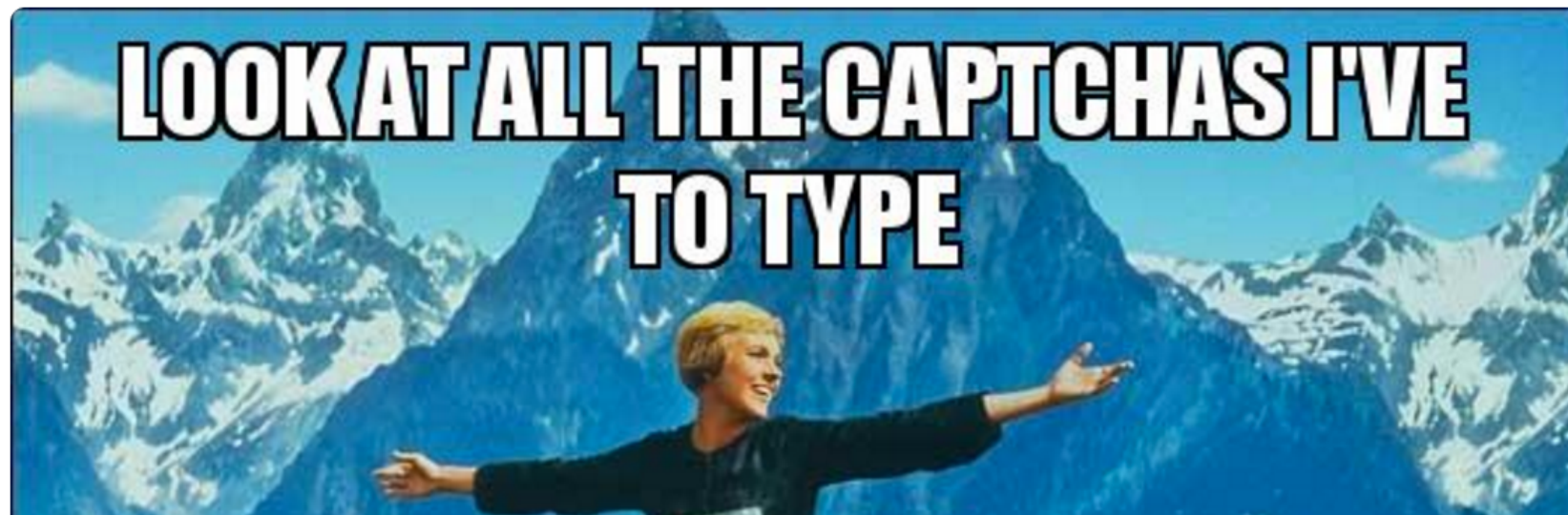
RIP Tor

On January 24th, 2016 Anonymous said:

Every time I use Tor I want to KILL everyone who works for Cloudflare.



[#dontblocktor](#)



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Tor is DEAD!

And Cloudflare KILLED it!

RIP Tor

On January 24th, 2016 Anonymous said:

Every time I use Tor I want to KILL everyone who works for Cloudflare.



On February 9th, 2016 Anonymous said:

What is the point of Tor any more when it seems like the whole web is on Cloudflare!?

[#dontblocktor](#)

**LOOK AT ALL THE CAPTCHAS I'VE
TO TYPE**

**TRYING TO DECRYPT THE
CAPTCHAS**



WHEN USING TOR

makeameme.org

On February 9th, 2016
Tor is DEAD!
And Cloudflare Killed It
RIP Tor

On Jan 9th
Every

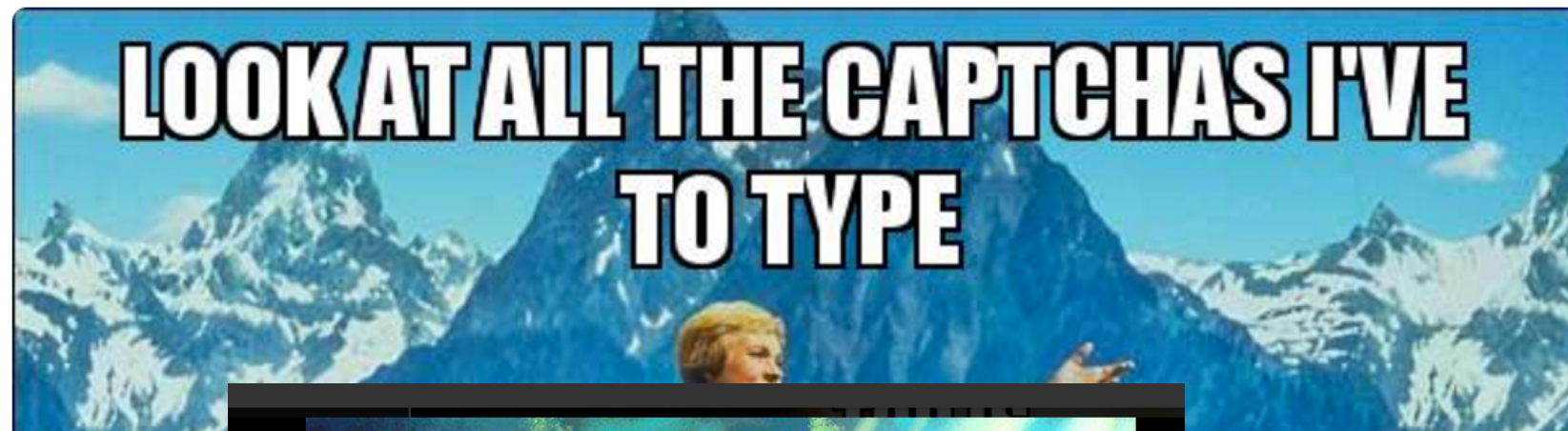
everyone who works for Cloudflare.

R

the whole web is on Clownfare!?

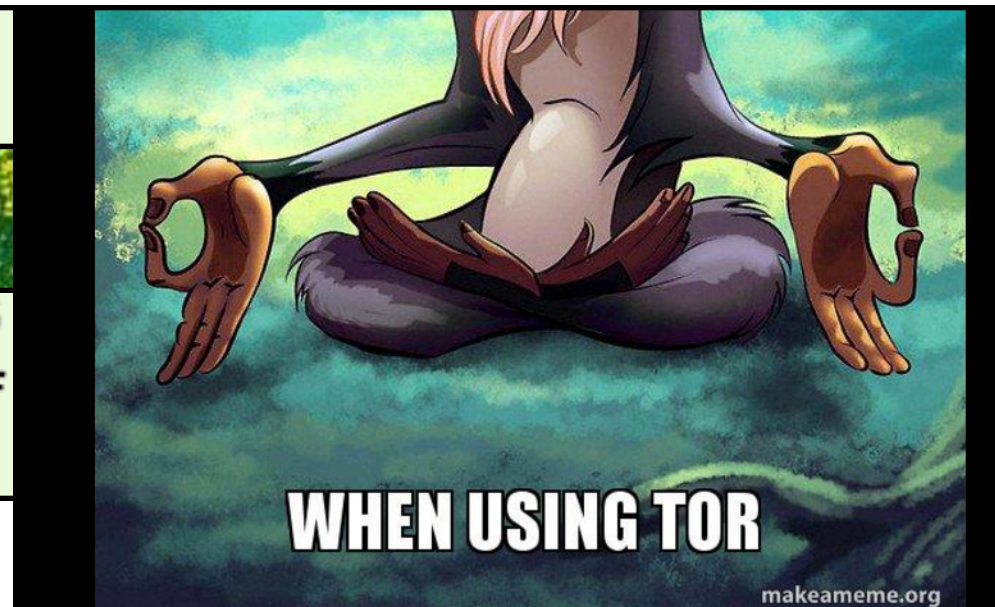
On February 9th, 2016
What is the point of

[#dontblocktor](#)



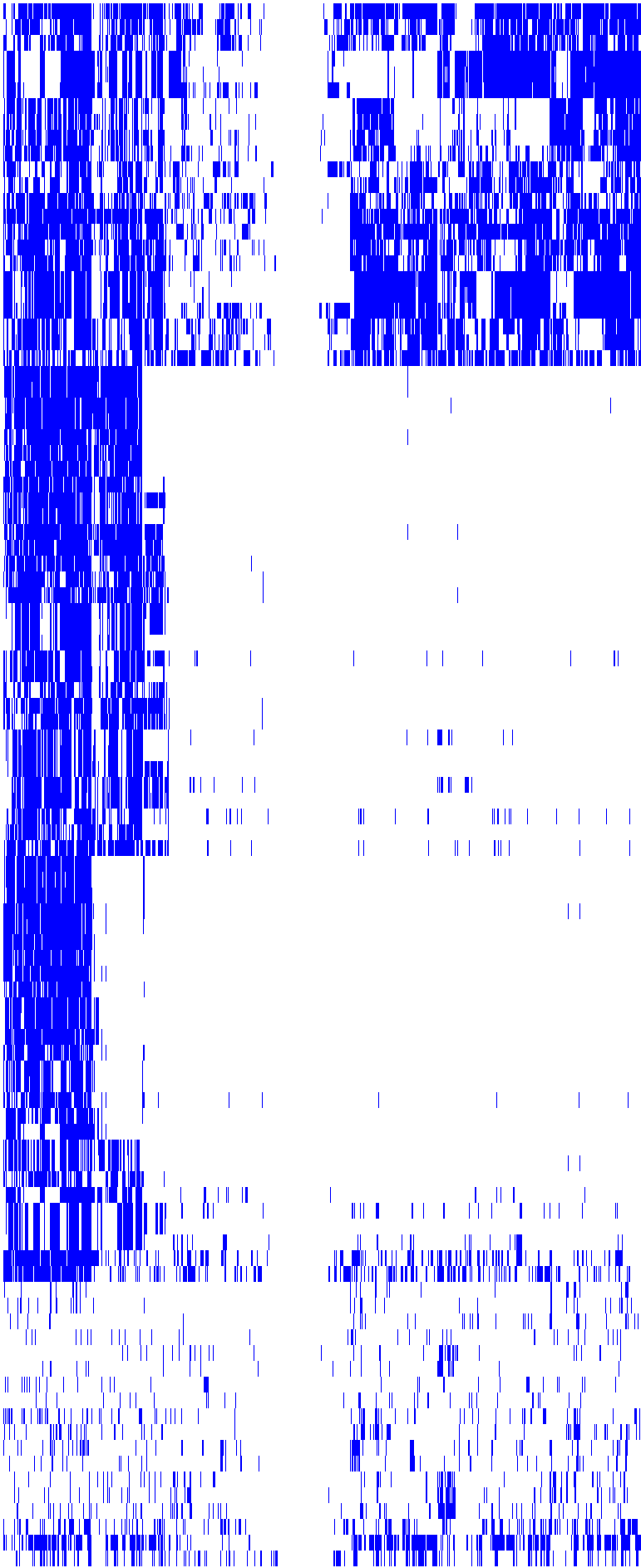
last night I had a dream that there were two new ways to solve cloudflare captchas: writing sentences w/ emoji & proving $P = NP$

On February 9th, 2016
What is the point of



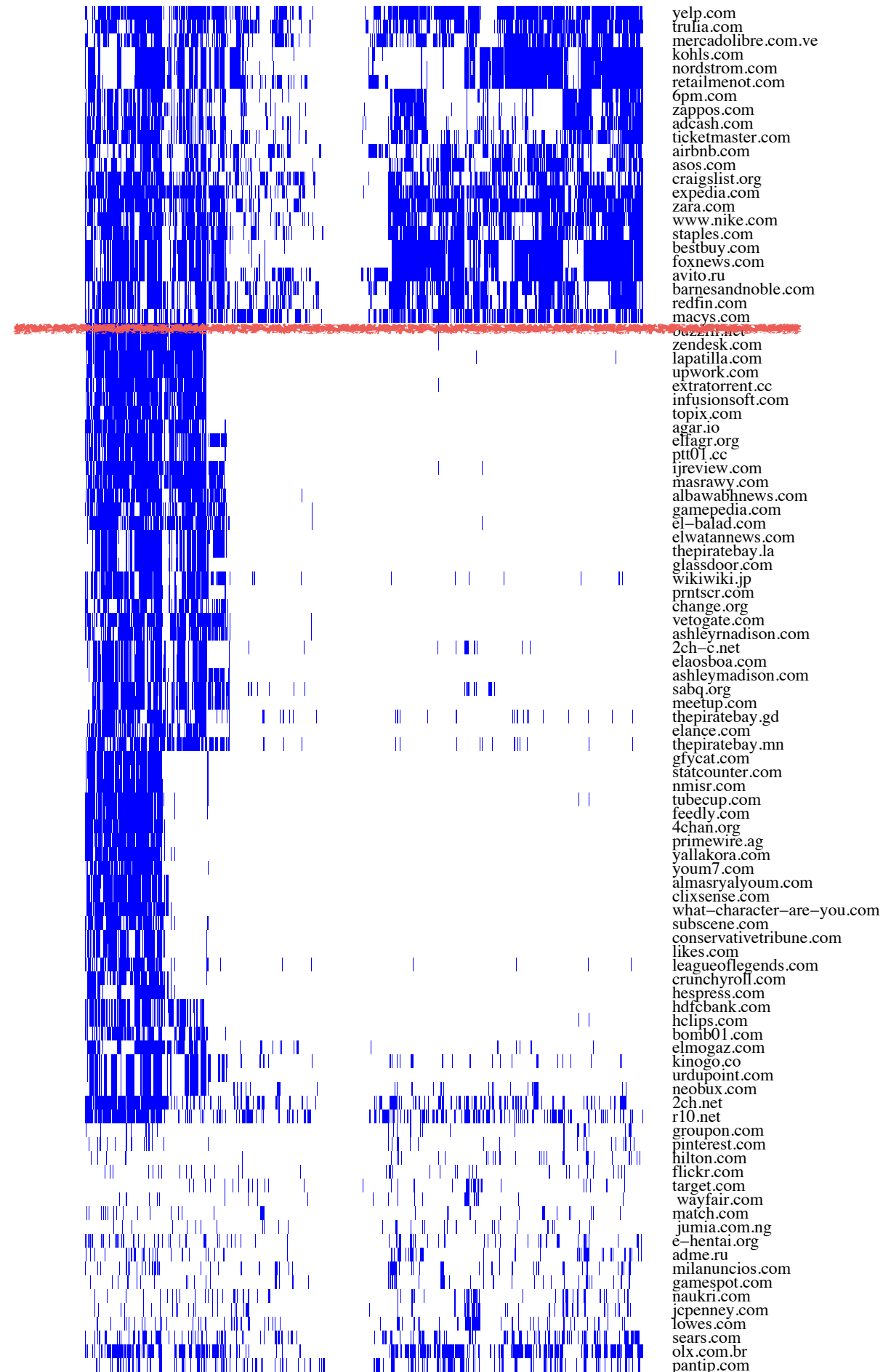
the whole web is on Clownfare!?

How many of the ~900 Tor exits
are blocked?



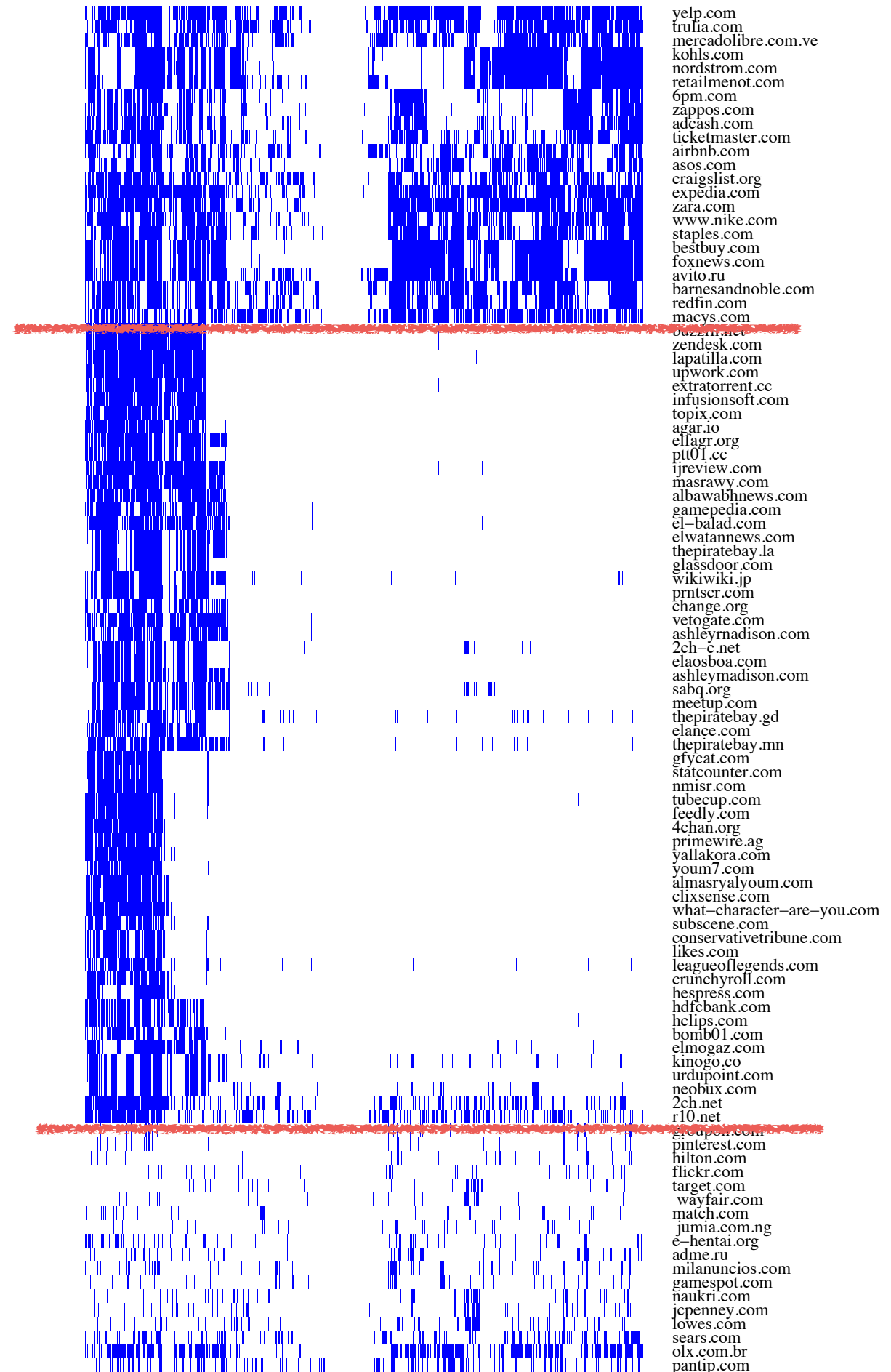
yelp.com
trulia.com
mercadolibre.com.ve
kohls.com
nordstrom.com
retailmenot.com
6pm.com
zappos.com
adcash.com
ticketmaster.com
airbnb.com
asos.com
craigslist.org
expedia.com
zara.com
www.nike.com
staples.com
bestbuy.com
foxnews.com
avito.ru
barnesandnoble.com
redfin.com
macys.com
buzzfil.net
zendesk.com
lapatilla.com
upwork.com
extratorrent.cc
infusionsoft.com
topix.com
agar.io
elfagr.org
ptt01.cc
ijreview.com
masrawy.com
albawabhnews.com
gamepedia.com
el-balad.com
elwatannews.com
thepiratebay.la
glassdoor.com
wikiwiki.jp
prntscr.com
change.org
vetogate.com
ashleymadison.com
2ch-c.net
elaosboa.com
ashleymadison.com
sabq.org
meetup.com
thepiratebay.gd
elance.com
thepiratebay.mn
gfycat.com
statcounter.com
nmisr.com
tubecup.com
feedly.com
4chan.org
primewire.ag
yallakora.com
youm7.com
almasryalyoum.com
clixsense.com
what-character-are-you.com
subscene.com
conservativetribune.com
likes.com
leagueoflegends.com
crunchyroll.com
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bomb01.com
elmogaz.com
kinogo.co
urdupoint.com
neobux.com
2ch.net
r10.net
groupon.com
pinterest.com
hilton.com
flickr.com
target.com
wayfair.com
match.com
jumia.com.ng
e-hentai.org
adme.ru
milanuncios.com
gamespot.com
naukri.com
jcpennney.com
lowes.com
sears.com
olx.com.br
pantip.com

~20 of Alexa top 1k websites
block > 50% of the exits



~20 of Alexa top 1k websites
block > 50% of the exits

~60 of Alexa top 1k websites
block < 25% of the exits



Why do exits get blocked?

- Two flavours:
 - ✧ Web services use **Tor specific blacklist**
 - ✧ **Block all** the Tor exits
 - ✧ Web services use **abuse-based blocking**
 - ✧ Block only exits with high abuse rate

Which exits are likely to have high abuse rate?

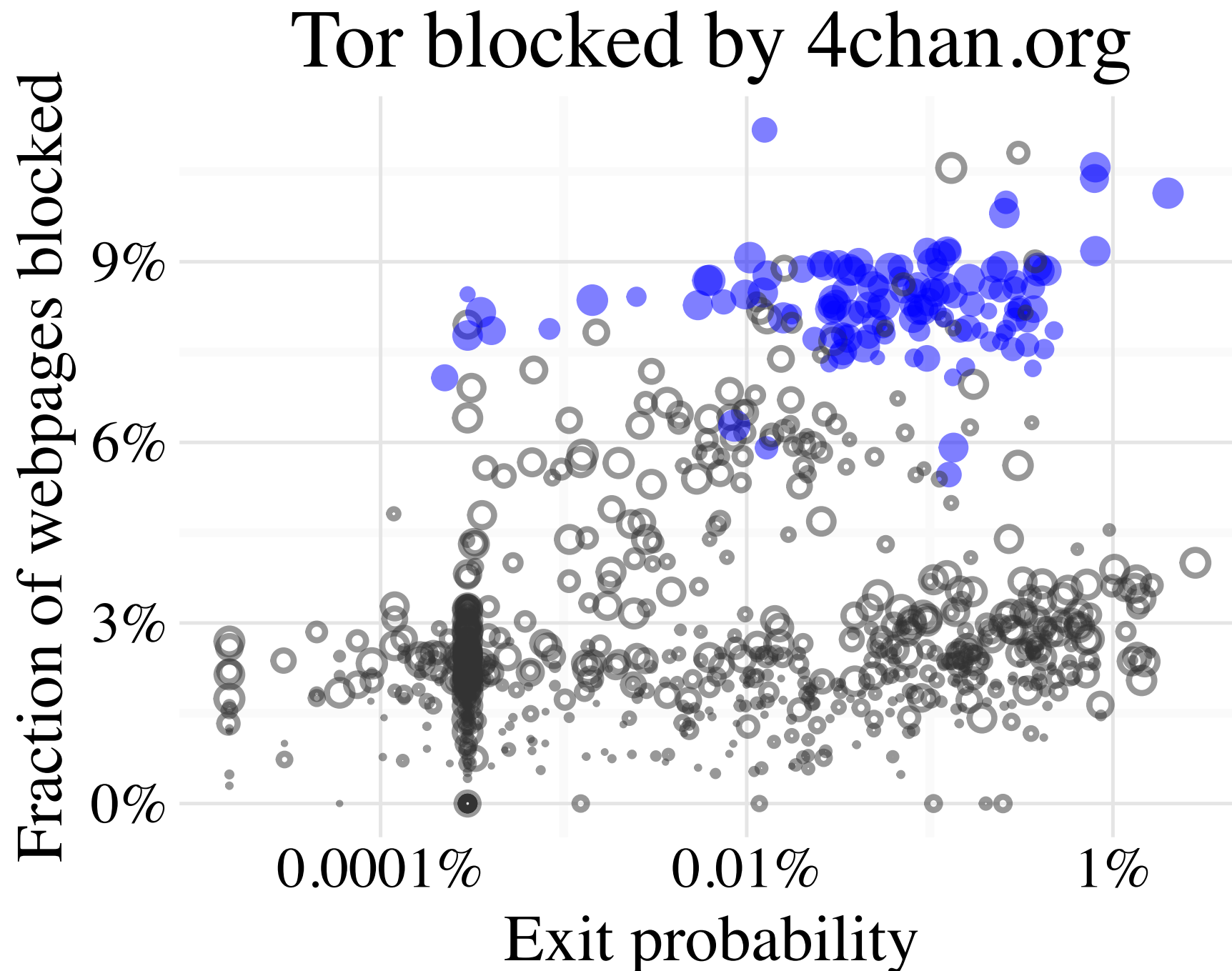
- Our hypothesis: high bandwidth and old age

Which exits are likely to have high abuse rate?

- Our hypothesis: high bandwidth and old age
- No statistically significant effect!
 - ❖ Except for few ...

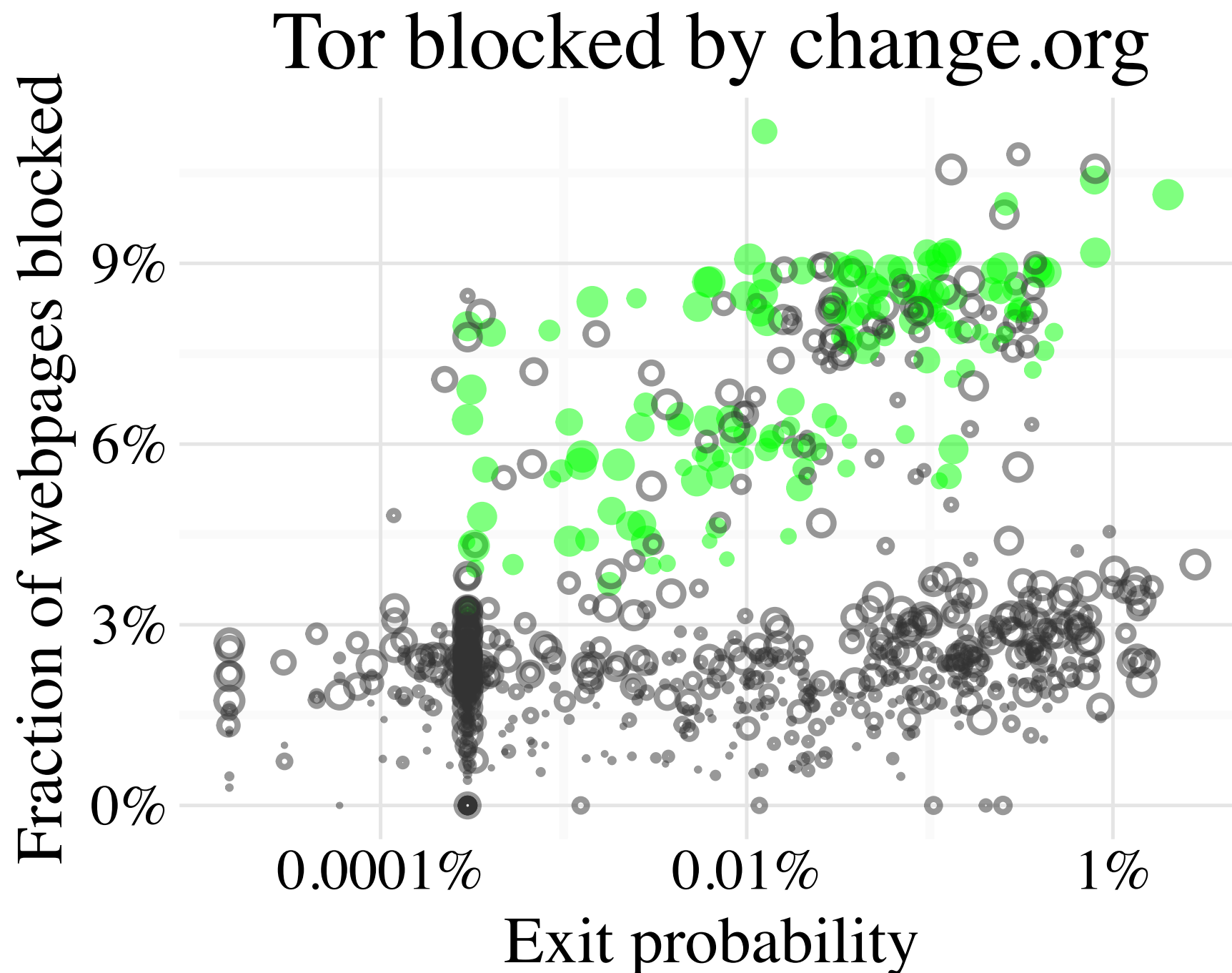
Which exits are blocked?

Old and high bandwidth



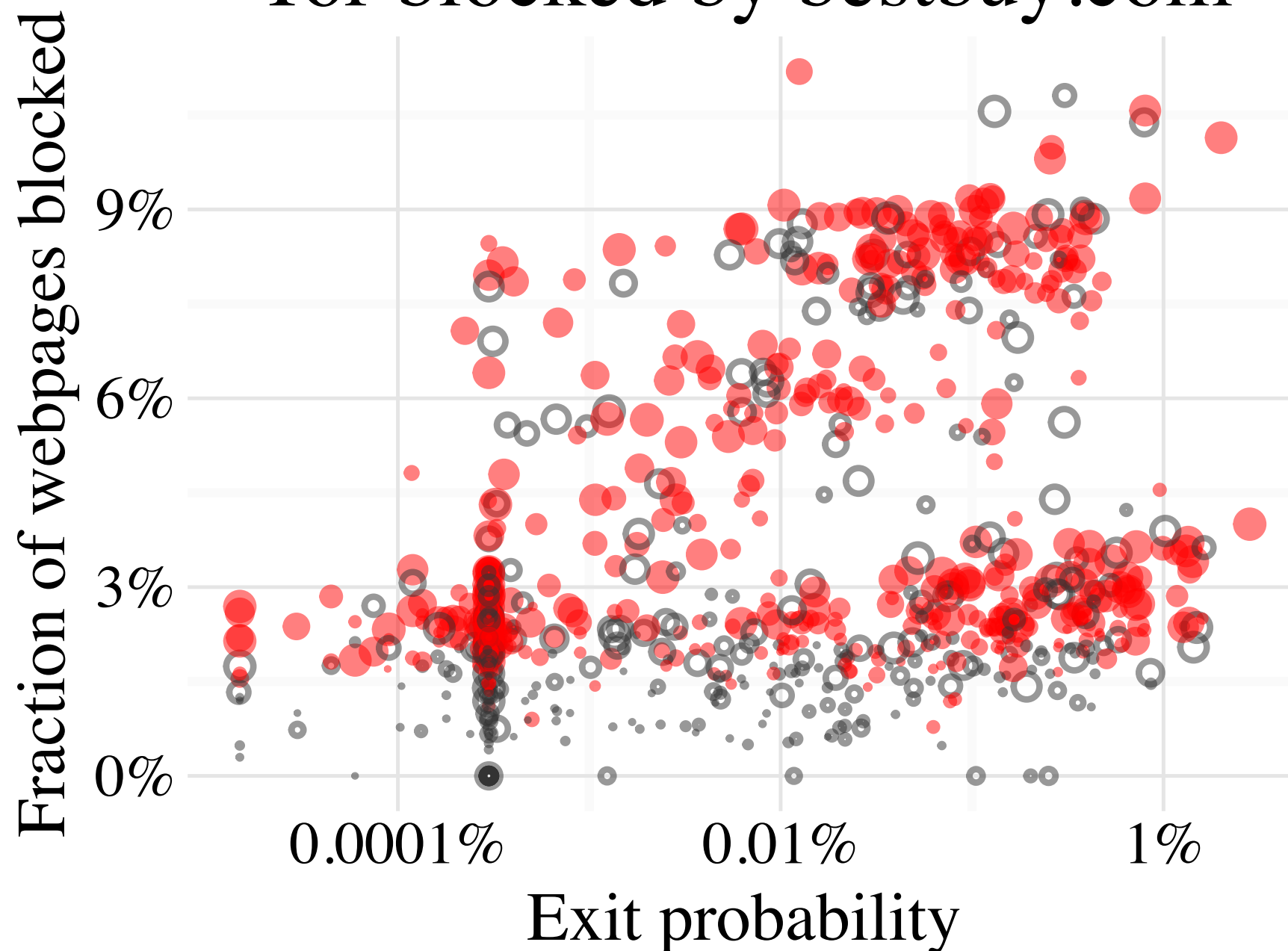
Which exits are blocked?

Old and high bandwidth



Akamai blocks most exits

Tor blocked by bestbuy.com



Homepage unblocked but blocked activity

- Google homepage was never blocked but searching was blocked from 23-40% of the ~900 exits.

Response to <https://www.google.com/#q=hello>

 Sorry...

We're sorry...

... but your computer or network may be sending automated queries. To protect our users, we can't process your request right now.

See [Google Help](#) for more information.

[Google Home](#)

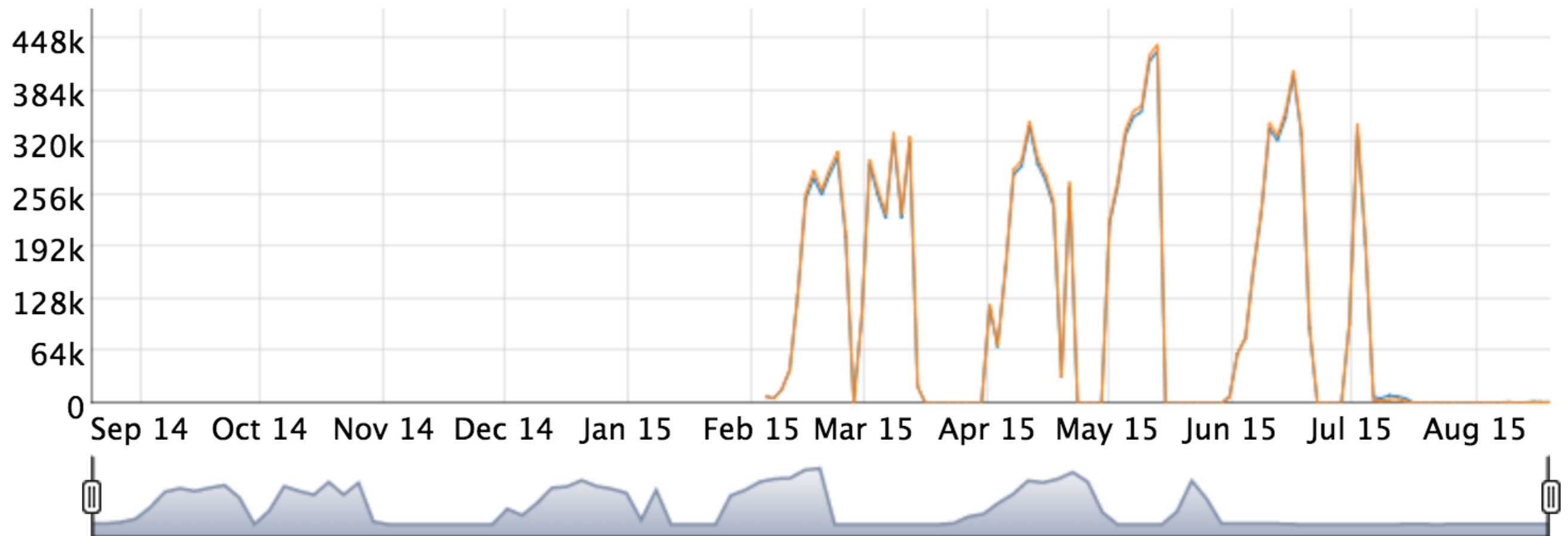
Exits that were never blocked

- 42 exits were never blocked

Exits that were never blocked

- 42 exits were never blocked

Uptime of one of the 42 exits

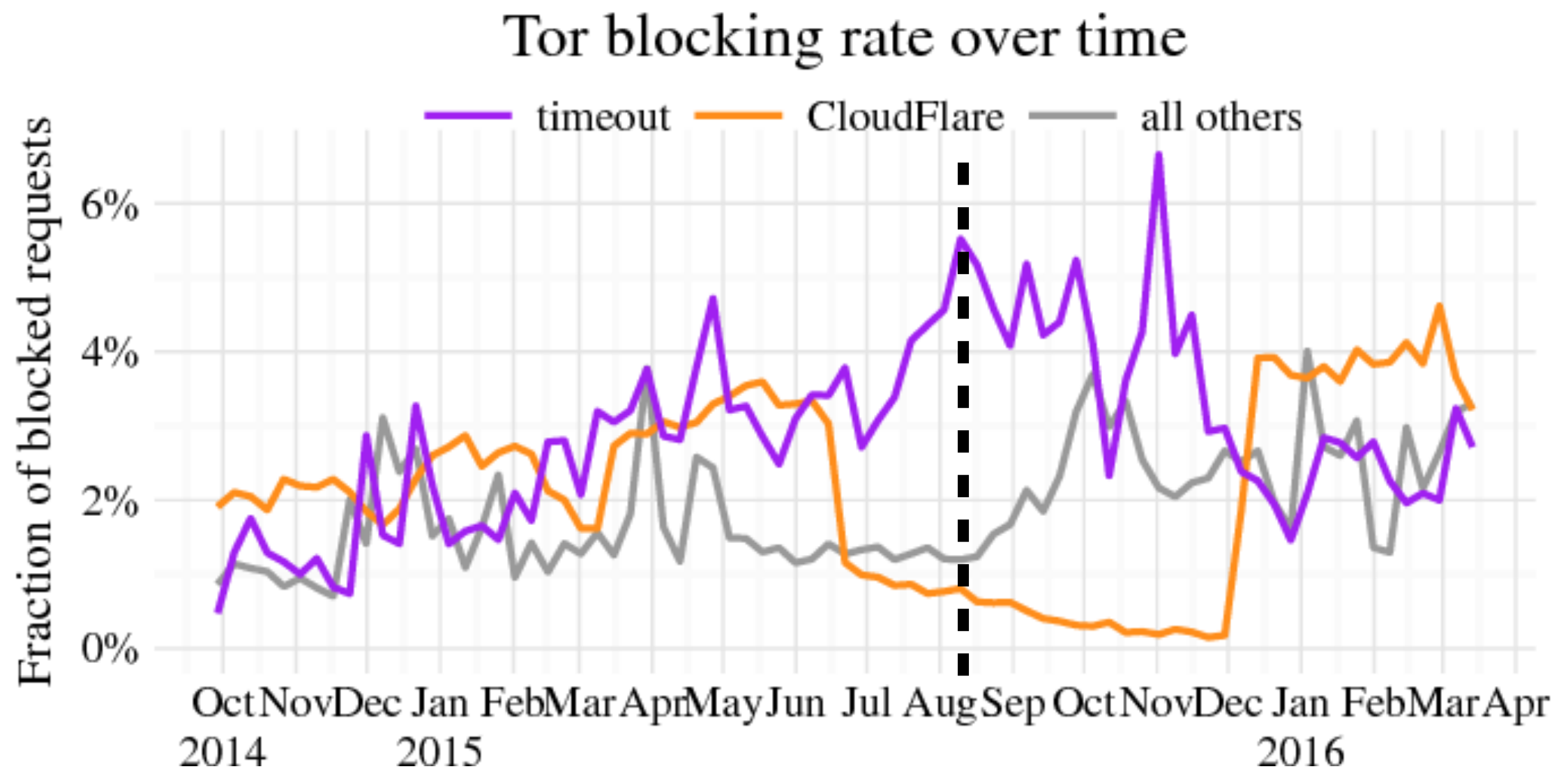


Historical Tor Blocking

- Open Observatory Network Interference (OONI)
 - ❖ Studies censorship in different countries
 - ❖ Visits website through Tor and without Tor
 - ❖ Over 2300 websites visited (Sep'14-Aug'15)

<http://explorer.ooni.io>

6.8% of 2300 websites blocked Tor

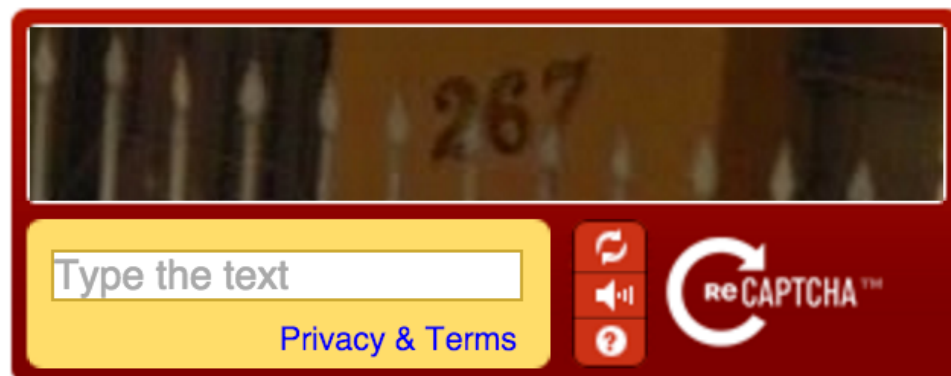


Sites that explicitly block Tor

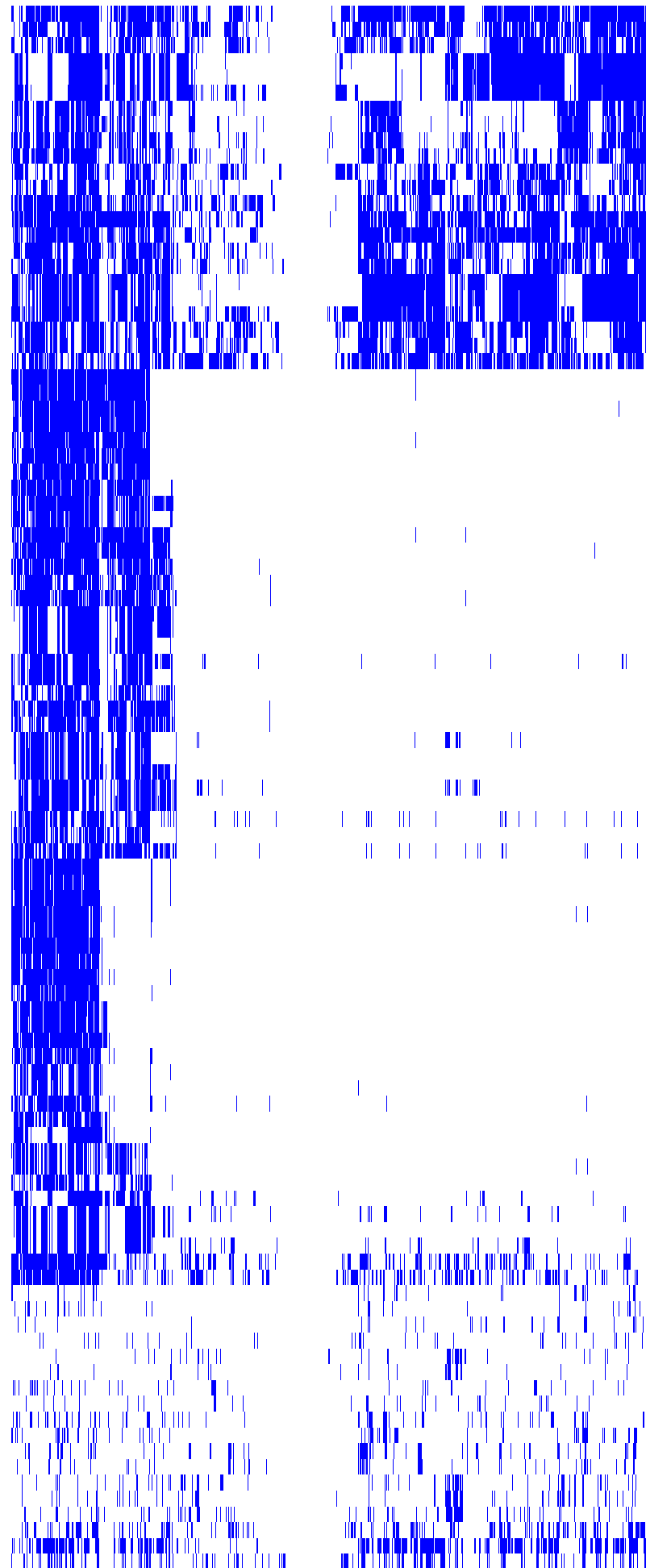
- Convio: Not Implemented Tor IP not allowed
- ezinearticles.com

It appears that you are using Tor anonymizing software

No Problem! We just need you to enter a Captcha so we can confirm that you are a person and not a bot.

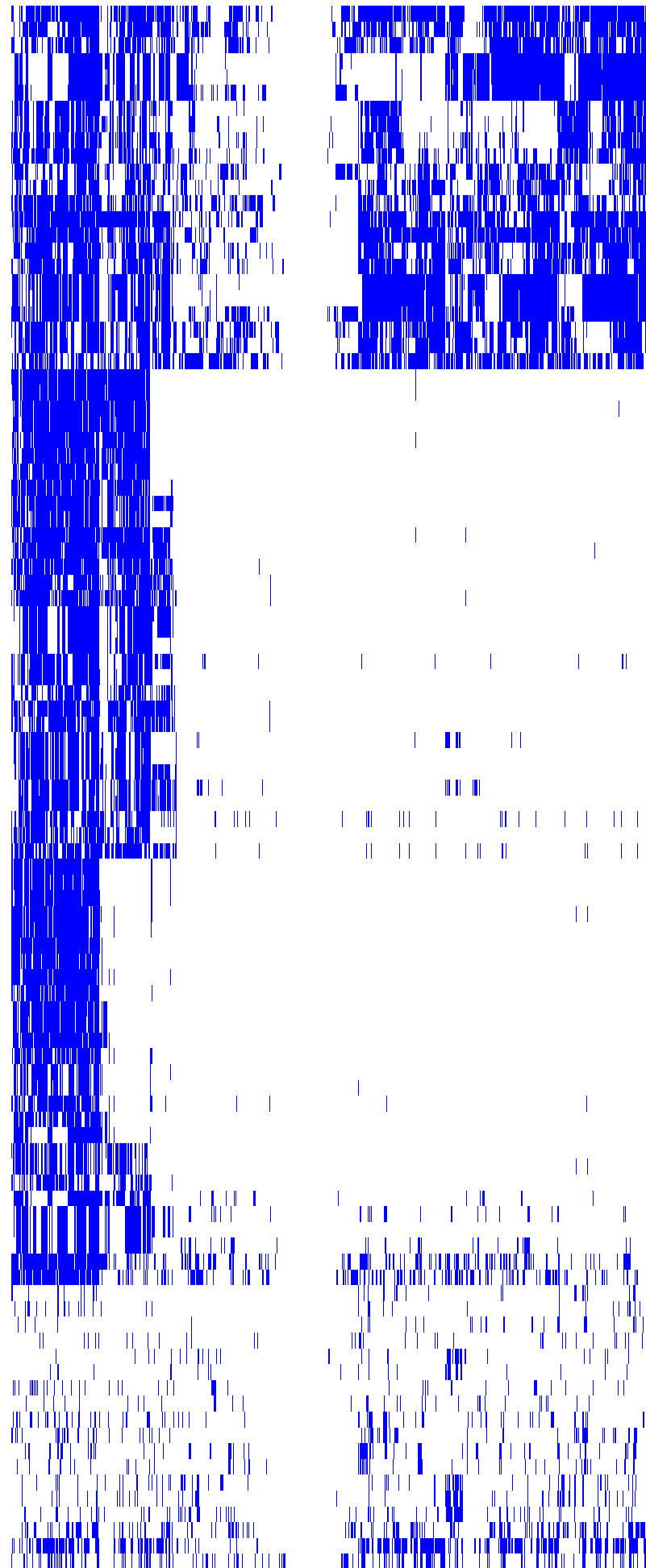


<---Tor exits (~900)---> Aug, 2015



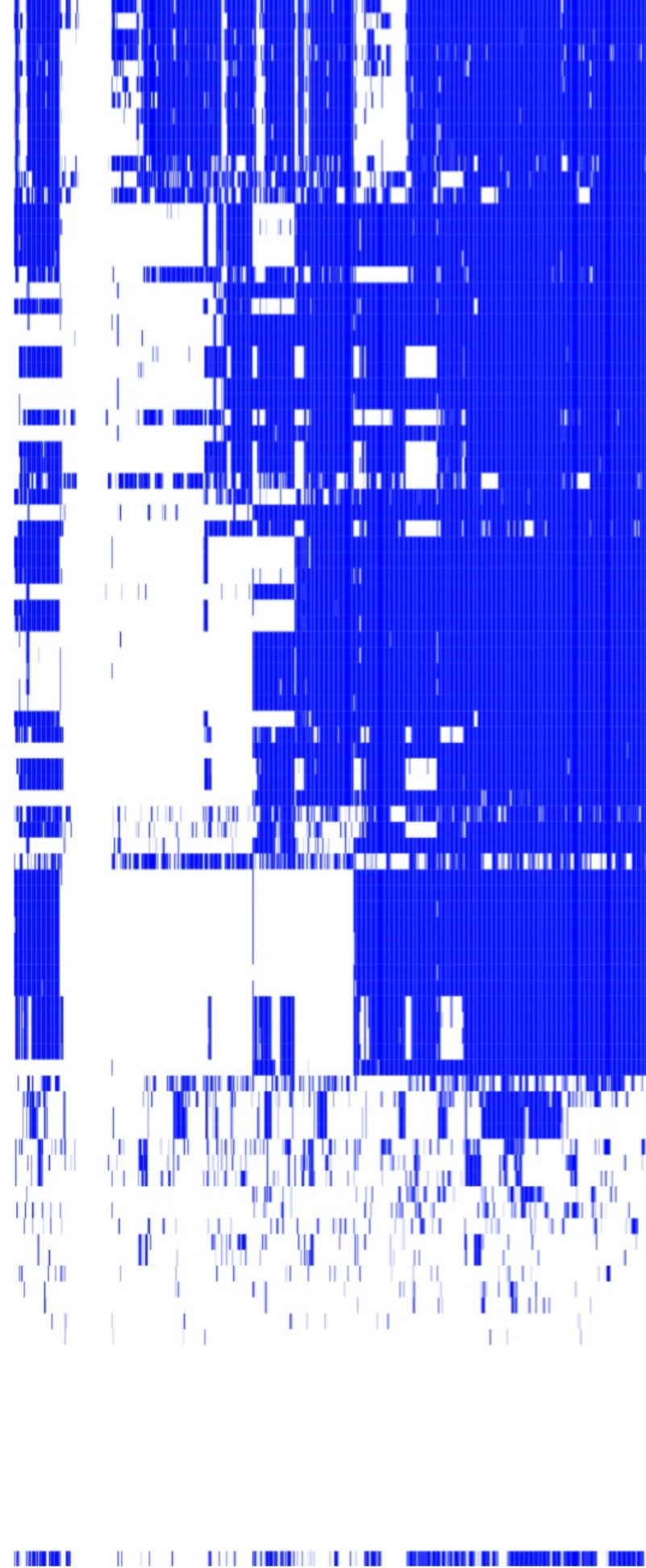
yelp.com
trulia.com
mercadolibre.com.ve
kohls.com
nordstrom.com
retailmenot.com
6pm.com
zappos.com
adcash.com
ticketmaster.com
airbnb.com
asos.com
craigslist.org
expedia.com
zara.com
www.nike.com
staples.com
bestbuy.com
foxnews.com
avito.ru
barnesandnoble.com
redfin.com
macys.com
buzzfil.net
zendesk.com
lapatilla.com
upwork.com
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infusionsoft.com
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masrawy.com
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tubecup.com
feedly.com
4chan.org
primewire.ag
yallakora.com
youm7.com
almasryalyoum.com
clixsense.com
what-character-are-you.com
subscene.com
conservativetribune.com
likes.com
leagueoflegends.com
crunchyrofl.com
hespress.com
hdfcbank.com
hclips.com
bomb01.com
elmogaz.com
kinogo.co
urdupoint.com
neobux.com
2ch.net
r10.net
groupon.com
pinterest.com
hilton.com
flickr.com
target.com
wayfair.com
match.com
jumia.com.ng
e-hentai.org
adme.ru
milanuncios.com
gamespot.com
naukri.com
jcpennney.com
lowes.com
sears.com
olx.com.br
pantip.com

<--Tor exits (~900)--> Aug, 2015



yelp.com
trulia.com
mercadolibre.com.ve
kohls.com
nordstrom.com
retailmenot.com
6pm.com
zappos.com
adcash.com
ticketmaster.com
airbnb.com
asos.com
craigslist.org
expedia.com
zara.com
www.nike.com
staples.com
bestbuy.com
foxnews.com
avito.ru
barnesandnoble.com
redfin.com
macys.com
buzzfil.net
zendesk.com
lapatilla.com
upwork.com
extratorrent.cc
infusionsoft.com
topix.com
agar.io
elfagr.org
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gamepedia.com
el-balad.com
elwatannews.com
thepiratebay.la
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prntscr.com
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elance.com
thepiratebay.mn
gfycat.com
statcounter.com
nmsr.com
tubecup.com
feedly.com
4chan.org
primewire.ag
yallakora.com
youm7.com
almasryalyoum.com
clixsense.com
what-character-are-you.com
subscene.com
conservativetribune.com
likes.com
leagueoflegends.com
crunchyroll.com
hespress.com
hdfcbank.com
hclips.com
bomb01.com
elmogaz.com
kinogo.co
urdupoint.com
neobux.com
2ch.net
r10.net
groupon.com
pinterest.com
hilton.com
flickr.com
target.com
wayfair.com
match.com
jumia.com.ng
e-hentai.org
adme.ru
milanuncios.com
gamespot.com
naukri.com
jcpennney.com
lowes.com
sears.com
olx.com.br
pantip.com

<--Tor exits (~900)--> (Feb, 2016)



avito.ru
ticketmaster.com
retailmenot.com
trulia.com
redfin.com
kohls.com
yelp.com
nordstrom.com
foxnews.com
zara.com
airbnb.com
lowes.com
macys.com
change.org
youm7.com
hdfcbank.com
urdupoint.com
expedia.com
elwatannews.com
primewire.ag
ashleymadison.com
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el-balad.com
sabq.org
gamepedia.com
meetup.com
asos.com
agar.io
ijreview.com
masrawy.com
sears.com
leagueoflegends.com
kinogo.co
zendesk.com
tubecup.com
hclips.com
bomb01.com
2ch-c.net
nmsr.com
glassdoor.com
elmogaz.com
elance.com
ashleymadison.com
prntscr.com
topix.com
elaosboa.com
conservativetribune.com
upwork.com
lapatilla.com
buzzfil.net
infusionsoft.com
craigslist.org
2ch.net
neobux.com
barnesandnoble.com
statcounter.com
almasryalyoum.com
4chan.org
feedly.com
gfycat.com
clixsense.com
what-character-are-you.com
yallakora.com
likes.com
hespress.com
crunchyroll.com
subscene.com
extratorrent.cc
bestbuy.com
adcash.com
zappos.com
6pm.com
jcpennney.com
naukri.com
staples.com
ptt01.cc
e-hentai.org
gamespot.com
wayfair.com
target.com
match.com
pinterest.com
groupon.com
flickr.com
olx.com.br
www.nike.com
vetogate.com
jumia.com.ng
hilton.com
albawabnews.com
mercadolibre.com.ve
thepiratebay.mn
pantip.com
r10.net
thepiratebay.gd
thepiratebay.la
adme.ru
milanuncios.com
elfagr.org

Functionality Blocking (2017)

Websites	Interaction	Discrimination observed
A-500	Front page	20.03%
S-243	Front page	17.44%
	Front page + Search	21.33% (+3.89%)
L-62	Front page	17.08%
	Front page + Login	24.56% (+7.48%)

Why blocking happens?

Exit Family	# Exits	% Tor Traffic	Email Dates	# Complaints	Top Complaint
Torservers.net	10–20	7.05%	2010/06–2016/04	2,987,017	DMCA Violation (99.74%)
apx	3	1.94%	2014/11–2016/05	293	Automated Scan (38.49%)
TorLand1	1	0.75%	2011/12–2016/10	307	Malicious Traffic (16.99%)
jahjah	1	0.17%	2016/1–2017/1	75	Unauthorized Login Attempts (34.1%)
Our exits	10	3.14%	2016/9–2017/2	650	Network Attack (48.68%)

Why blocking happens?

Category	Includes	Percent
Network abuse	DDoS, botnet, compromised machines	38.03%
Unauthorized access	Failed login attempts, brute-force attacks, exploits for gaining access	26.45%
Automated scan	Port scans, vulnerability scans, automated crawling	14.15%
Spam	Email, comment, and forum spam	9.01%
Harassment	Threats, obscenity	1.05%
Other	(unreadable encrypted emails, emails not reporting abuse)	11.31%

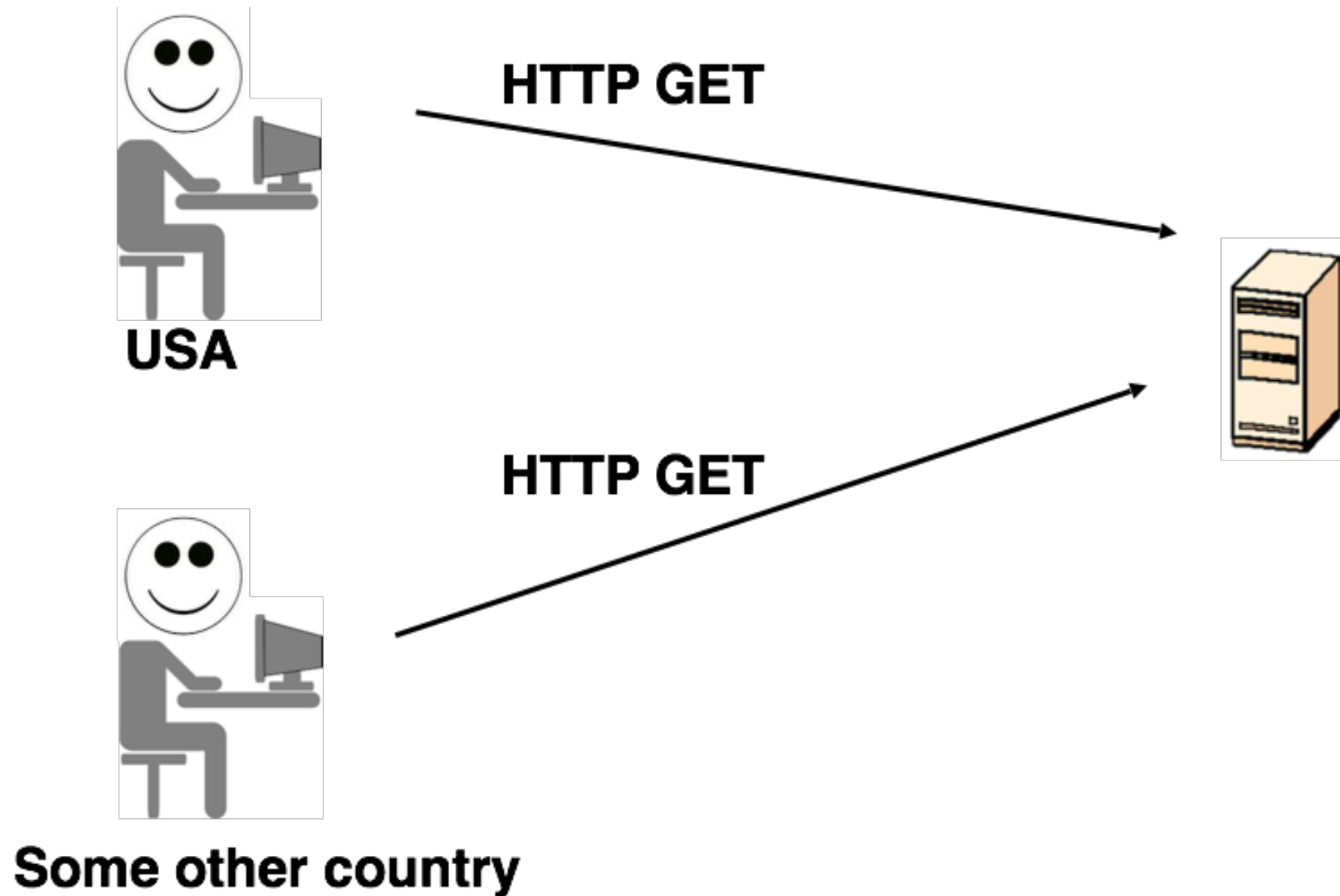
Table 3: Categories of the Non-DMCA Email Complaints (Total 8,370 emails)

A lot has changed for the Tor users

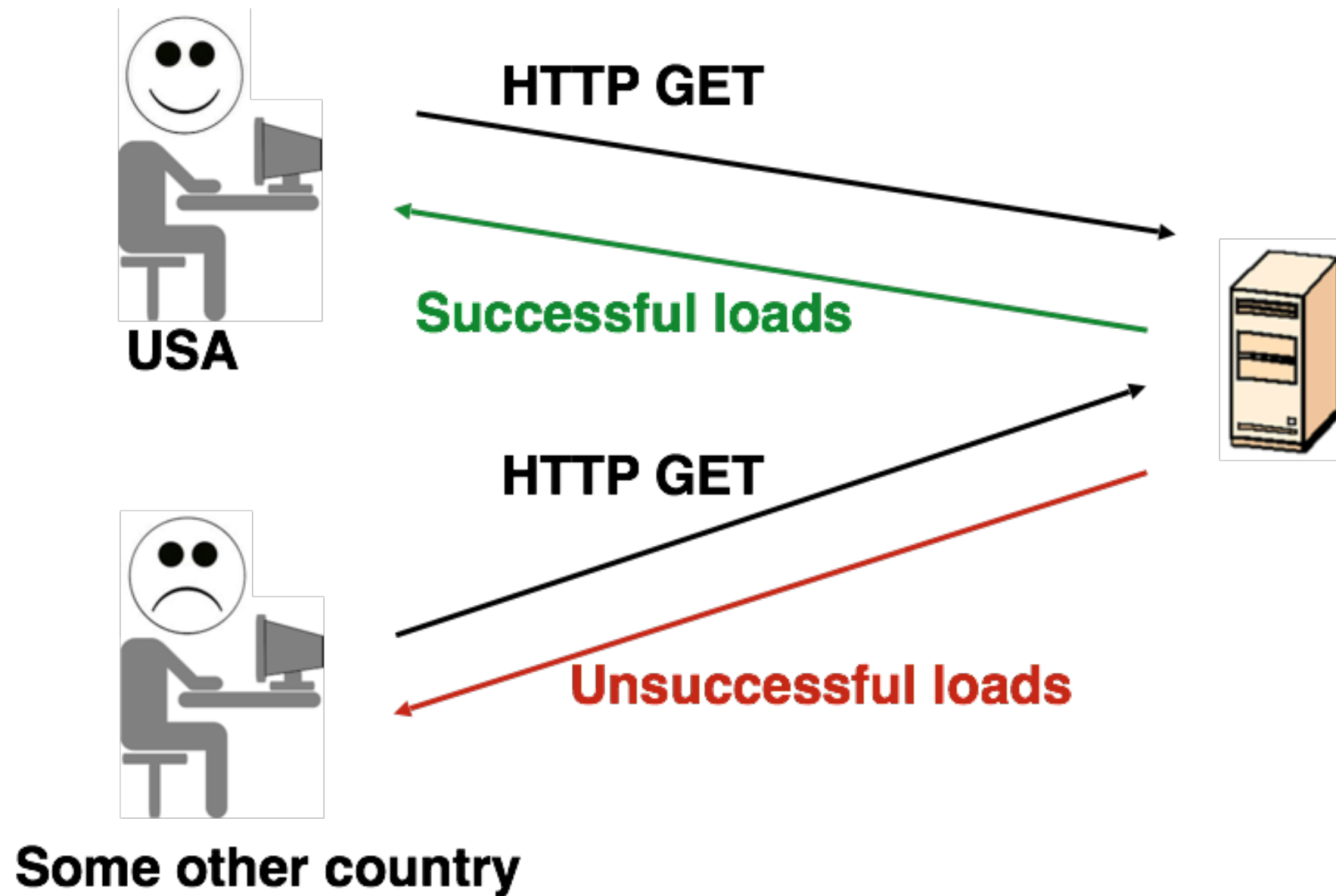
- Cloudflare added Tor as a “country”
- Privacy pass
- Cloudflare onions

What about other forms of
server-side blocking?

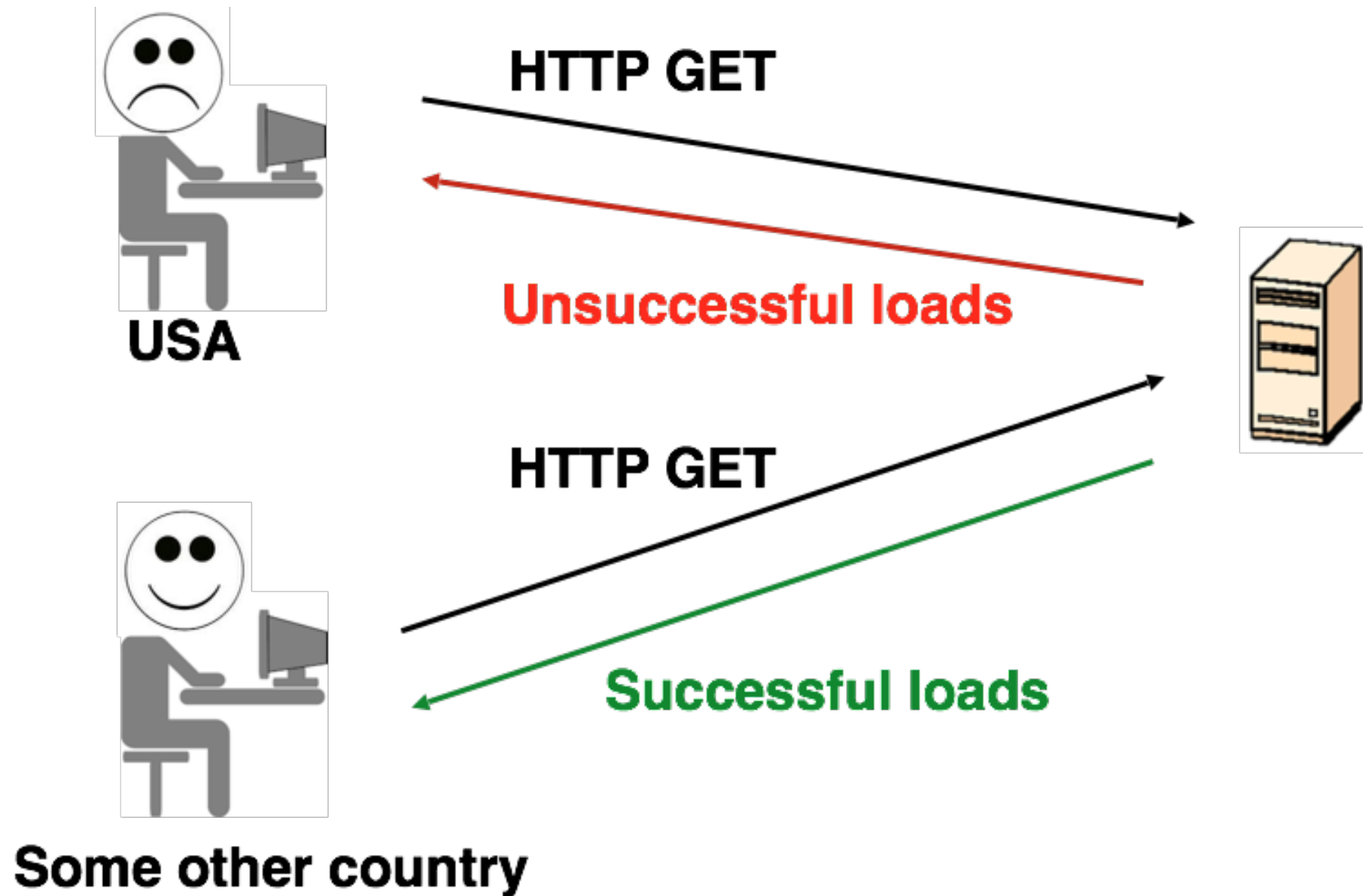
How to measure Regional Blocking?



How to measure Regional Blocking?



How to measure Regional Blocking?



How to measure Regional Blocking?

List of
unavailable websites

Traceroute

Manual Analysis



Measurement Around the World



Websites that block the African Region

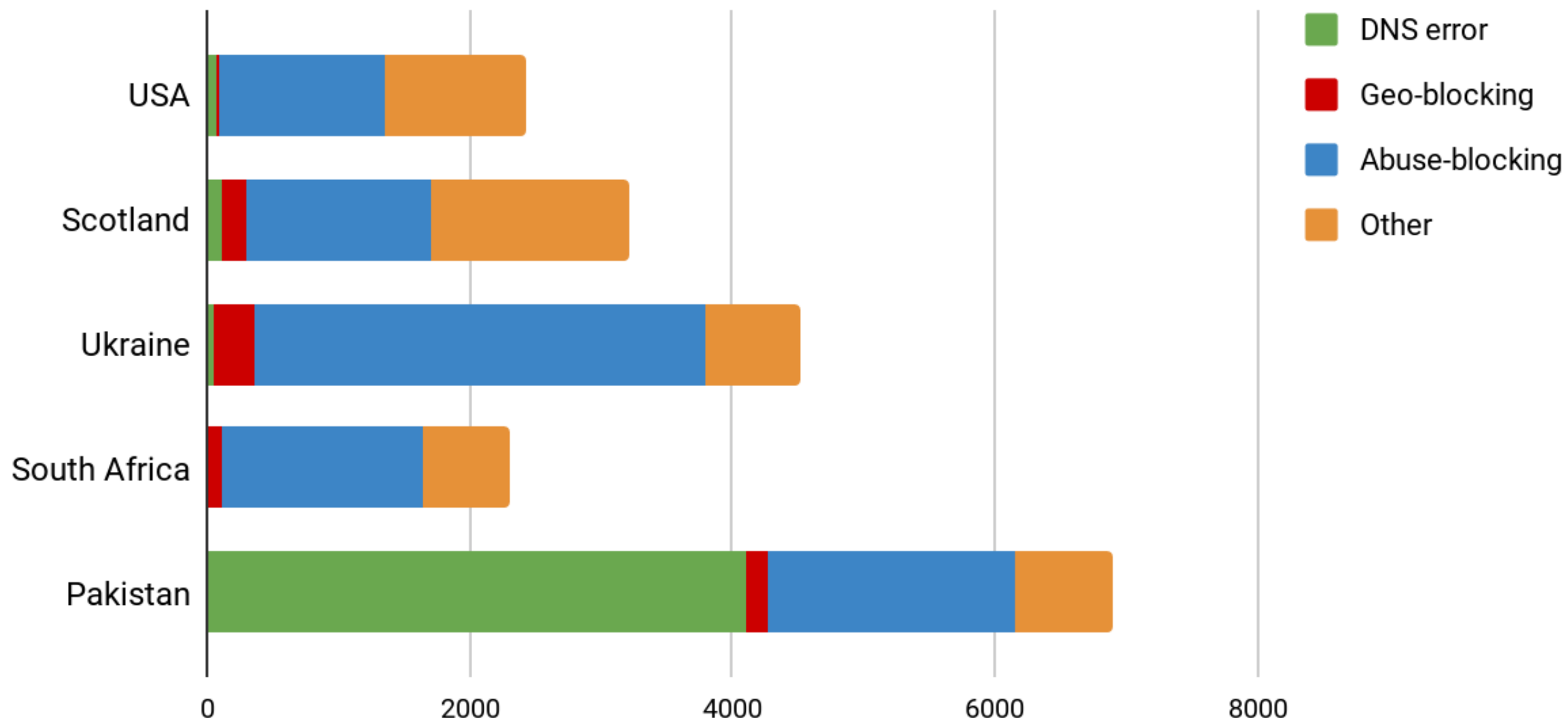
URL/Country	BWA	KEN	ZAF	PAK	BGR	UKR	IND	GBR	USA
kirklands.com	403	403	403	403†	403	403	403	403	200
panerabread.com	403	403	403	403	403	403	403	403	200
gasbuddy.com	403	403	403	403	403	403	403	403	200
publix.com	TO	TO	TO	TO	TO	TO	TO	TO	200
pizzahut.com	403	403	403	403†	403	403	403	200	200
sunpass.com	TO	TO	TO	TO	TO	TO	TO	200	200
www.allconnect.com	CE	CE	CE	CE	CE	CE	200	CE	200
forumodua.com	503	503	503	503	503	200	503	503	200
funimation.com	403	403	403	403	403	403	403	200	200
tombola.co.uk	403	403	403	403	403	403	403	200	200
safeway.com	403	403	403	403†	403	403	200	403	200
apartments.com	403	403	403	403†	200	403	200†	200	200
duke-energy.com	DE	DE	DE†	DE	DE	DE	200	200	200
cgg.gov.in	403	403	403	DE	403	403	200	200	200
odeon.co.uk	TO	TO	TO	TO	TO	TO	200	200	200
lendingtree.com	403	403	403	403	200	403	200	200	200
restaurant.com	CE	CE	TO†	CE†	CE	200	200	200	200
pbteen.com	403	403	403	CE†	200	200	200	200	200
potterybarn.com	403	403	403	200†	200	200	200	200	200
pikabu.ru	TO	TO	TO	200	200	200	200	200	200
williams-sonoma.com	403	403	403	200	200	200	200	200	200

Websites that block Pakistan

URL/Country	PAK	UKR	BGR	IND	ZAF	KEN	BWA	GBR	USA
panerabread.com	403	403	403	403	403	403	403	403	200
gasbuddy.com	403	403	403	403	403	403	403	403	200
publix.com	TO	TO	TO	TO	TO	TO	TO	TO	200
forumodua.com	503	200	503	503	503	503	503	503	200
funimation.com	403	403	403	403	403	403	403	200	200
sunpass.com	TO	TO	TO	TO	TO	TO	TO	200	200
www.allconnect.com	CE	CE	CE	200	CE	CE	CE	CE	200
peapod.com	403	403	403	403	403	403	200	403	200
tombola.co.uk	403	403	403	403	403	403	403	200	200
cgg.gov.in	DE	403	403	200	403	403	403	200	200
northerntool.com	403	403	403	403	403	200	200	403†	200
odeon.co.uk	TO	TO	TO	200	TO	TO	TO	200	200
hud.gov	DE	DE	DE	DE	DE†	200	DE	200	200
duke-energy.com	DE	DE	DE	200	DE†	DE	DE	200	200
uhaul.com	TO	TO	200	TO	200†	200	200	TO	200
lendingtree.com	403	403	200	200	403	403	403	200	200
tigerdirect.com	403	403	403	200	200	403	403	200	200
payless.com	DE	DE	DE	200	200†	200	DE	200	200
orvis.com	403	403	403	403	200	403	200	200	200
www.home-barista.com	503	503	503	200	503	200	200	200	200
moneytalksnews.com	403	200	403	403	403	200	200	200	200
ap.gov.in	DE	200	TO	200†	200	200	200	200	200
telegra.ph	TO	200	200	TO	200	200	200	200†	200
poloniex.com	403	403†	200	403	200	200	200	200	200
expekt.com	RD	200	RD	RD†	200	200	200	200	200
www.playstation.com	404	200	200	200	200	404	404	200	200
idbibank.co.in	TO	200	200	200†	200	200	200	200	200
dish.com	TO	TO	200	200	200	200	200	200	200
bankbazaar.com	403	403	200	200	200	200	200	200	200
brickset.com	403	403	200	200	200	200	200	200	200
nazk.gov.ua	DE	200	200	DE	200	200	200	200	200
tax.virginia.gov	DE	DE	200	200	200	200	200	200	200
wipro.com	TO	200	200†	200	200	200	200	200	200
carandclassic.co.uk	*200	200	200	*200	200	200	200	200	200
indianbank.net.in	CE	200	200	200†	200	200	200	200	200

Websites that block the USA

URL/Country	USA	IND	GBR	BGR	BWA	KEN	ZAF	UKR	PAK
joinpaknavy.gov.pl	TO	TO	CE	TO†	TO	TO	TO†	TO	200
joinpakarmy.gov.pl	TO	TO	CE†	TO	TO	TO†	TO	TO	200
parfums.ua	403	403	403	403	200	200	200	200	200
24video.sexy	403	200	403	200	200	200	200	200	200
subscene.com	503	200†	200	200	200	200	200	200	200
jrj.com.cn	TO	200†	200	200	200	200	200	200	200



Websites Blocked Due to GDPR

URL/Country	Before	After			
		US	BGR	GBR	DEU
bismarcktribune.com	200	200	DE	403	403
collegian.psu.edu	200	200	403	403	403
dailynebraskan.com	200	200	DE	403	403
dailyprogress.com	200	200	403	403	403
fredericknewspost.com	200	200	403	403	403
fredericksburg.com	200	200	403	DE	403
globegazette.com	200	200	403	403	403
greensboro.com	200	200	403	403	403
gwinnettdailypost.com	200	200	403	403	403
havasunews.com	200	200	403	403	403
heraldtimesonline.com	200	200	403	403	403
host.madison.com/wsj	200	200	403	403	403
journalnow.com	200	200	403	403	403
journalstar.com	200	200	403	403	403
journaltimes.com	200	200	DE	403	403
lacrossetribune.com	200	200	403	403	403
lancasteronline.com	200	200	403	403	403
napavalleyregister.com	200	200	DE	403	403
nwitimes.com	200	200	DE	403	403
omaha.com	200	200	403	403	403
pantagraph.com	200	200	403	403	403
pilotonline.com	200	200	403	403	403
postandcourier.com	200	200	403	403	403
postbulletin.com	200	200	403	403	403
pressofatlanticcity.com	200	200	DE	403	403

Blocking mechanisms: GEO blocking

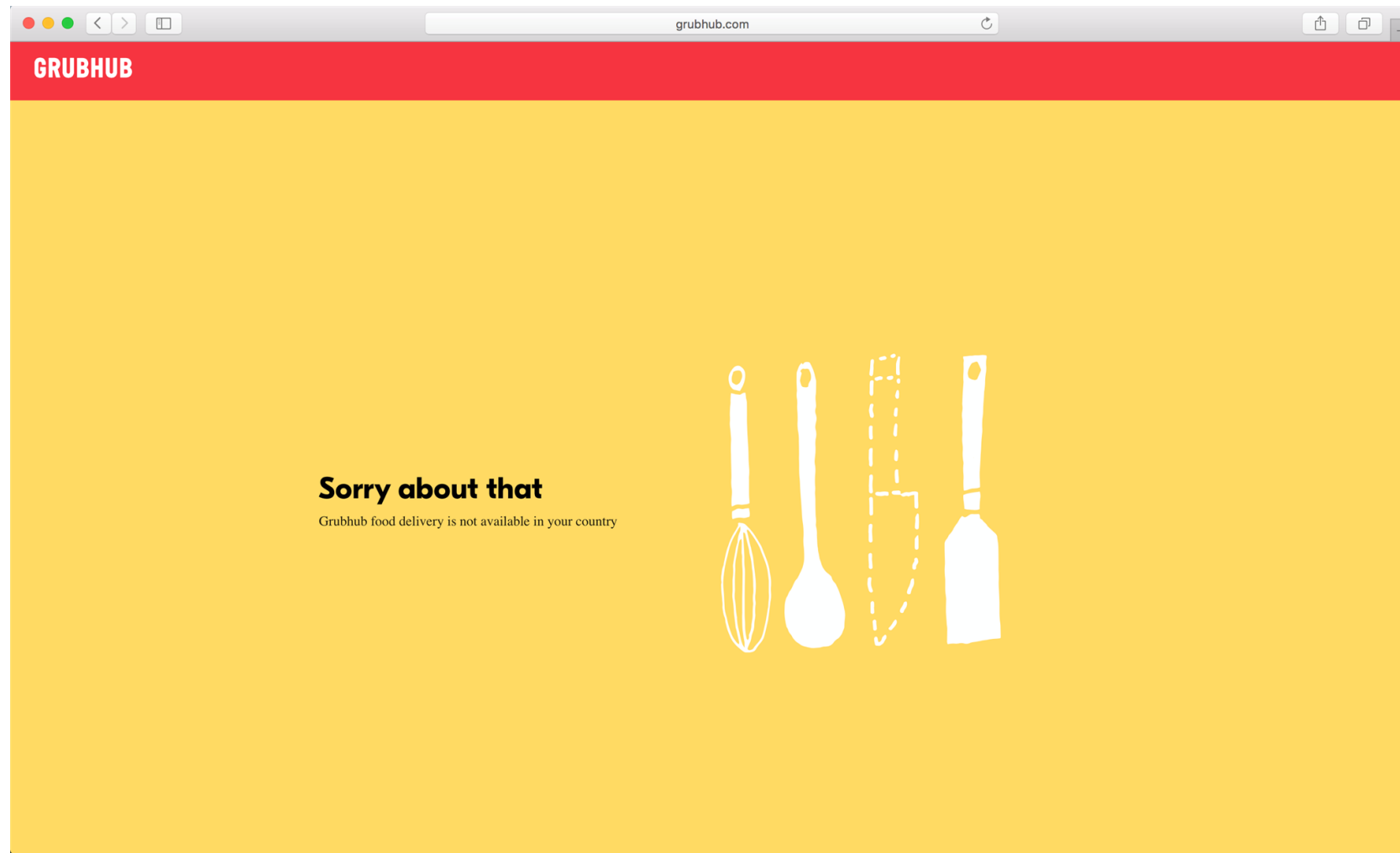
JCPenney



**We Are Currently Unable to Provide a
Shopping Experience for This Country**

Please try again later

Blocking mechanisms: GEO blocking



Blocking mechanisms: GEO blocking



SonicWALL | Network Security Appliance



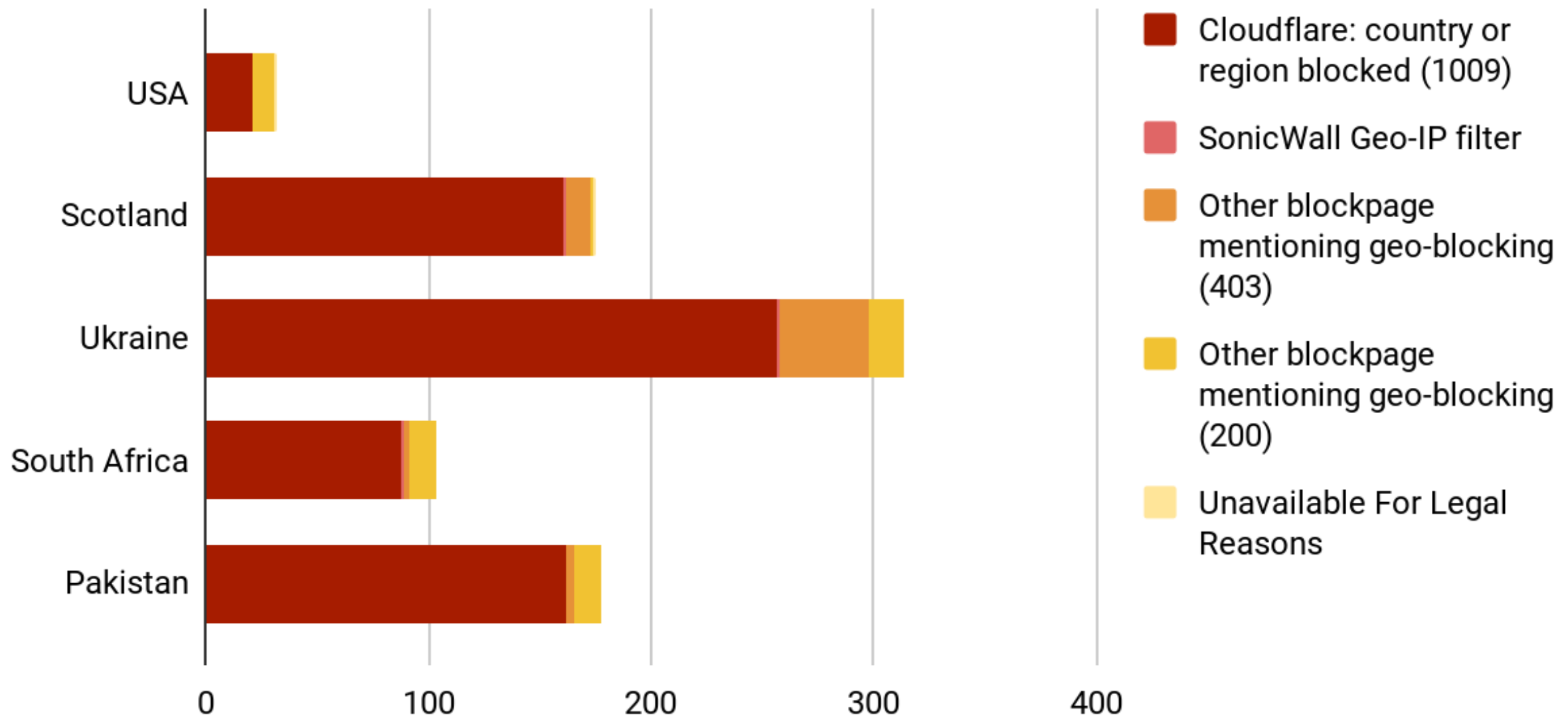
This site has been blocked by the network administrator.

Block reason: **Gateway GEO-IP Filter Alert**

IP address: **39.53.47.73**

Connection initiated from country: **Pakistan**

Types of GEO blocking



Blocking mechanisms: Security

www.lendingtree.com - Access Denied

Error code 16

This request was blocked by the security rules

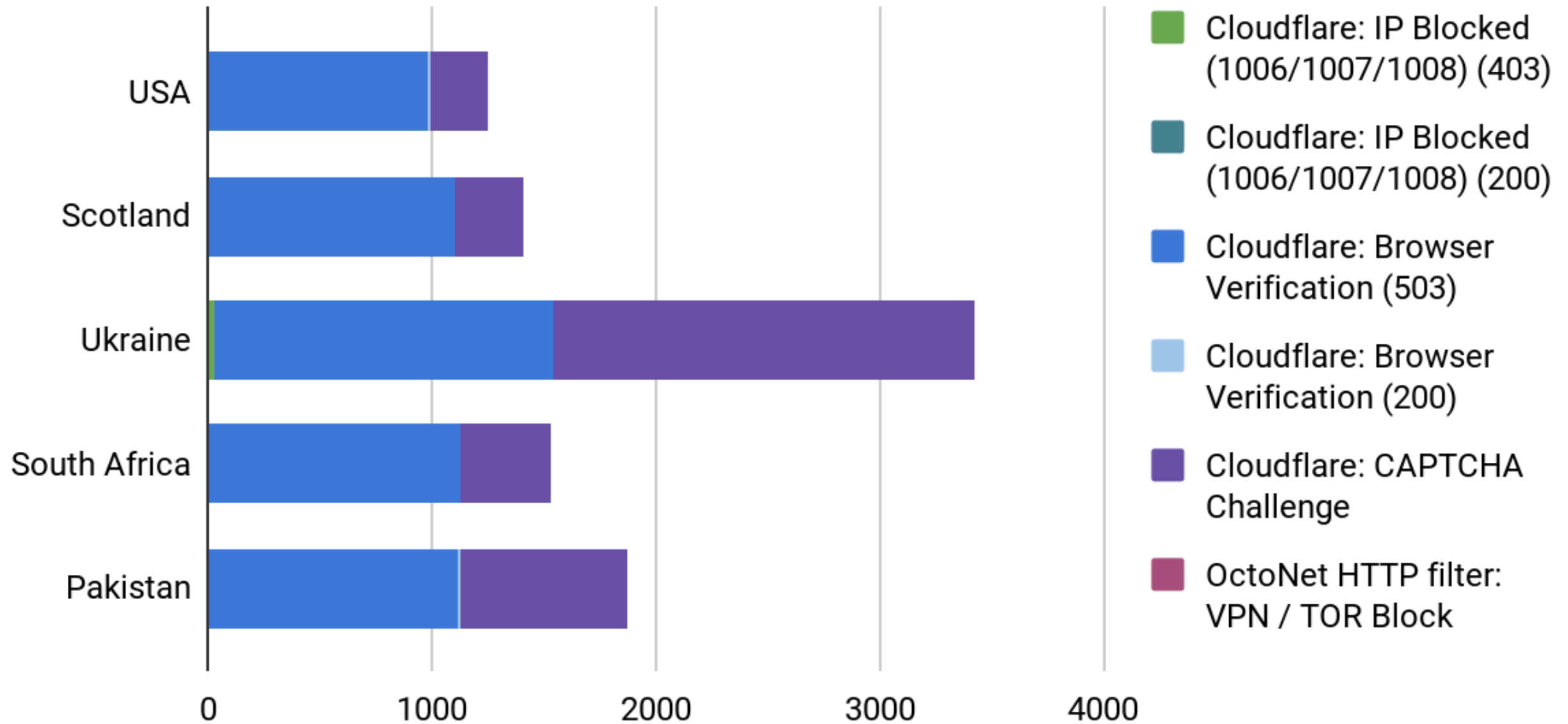
2018-05-23 09:03:55 UTC

Your IP [39.45.233.157](#) | Proxy IP [45.60.28.117](#) (ID 10407)

Incident ID: 407001860088678508-402561825777322917

Powered by [Incapsula](#)

Types of Security Based Blocking



Blocking mechanisms: ?

Access Denied

You don't have permission to access "http://www.f████████.com/" on this server.

Reference #18.97a51002.1533190068.5a7c90

Blocking mechanisms: ?

The requested URL was rejected. Please consult with your administrator.

Your support ID is: 5527351751160471927

Blocking mechanisms: Non-HTTP errors

Timeouts

Connection resets

Connection refused

Blocking mechanisms: Slow down page loading



Checking your browser before accessing [REDACTED].

This process is automatic. Your browser will redirect to your requested content shortly.

Please allow up to 5 seconds...

[DDoS protection by Cloudflare](#)

Ray ID: 421a43cf50f43e86

Limitations

Why Blocking Happens: Economic Reason

Bandwidth & requests

Region	North America	Europe	Asia	Australia & New Zealand	Brazil	South Africa
Bandwidth (per GB per region)						
First 10 TB	\$0.12	\$0.12	\$0.19	\$0.19	\$0.28	\$0.28
Next 10 TB	\$0.08	\$0.08	\$0.14	\$0.14	\$0.24	\$0.24
Requests (per 10,000 requests)						
All requests	\$0.0075	\$0.0075	\$0.0090	\$0.0090	\$0.0160	\$0.0160

We bill our customers a minimum of \$50 per month based on the combined total of your bandwidth and request usage.

Bandwidth for content delivery and streaming delivery is measured as Gbytes delivered from Fastly caches by region. Fees are calculated at the bandwidth rates. Rate reductions are applied automatically with greater usage.

HTTP and HTTPS requests are accumulated in units of 10,000 by region. Fees for content delivery and streaming delivery are calculated at the request rates.

Why Blocking Happens: Security reason

How can I block African (Nigerian) traffic from my site?

1 2 »

tomld2

Full Member

10+
YEARS

joined:Dec 24, 2003

posts:260

votes: 0

Msg#:639741 ▼

6:10 pm on Nov 19, 2004 (gmt 0)



I am so fed up with these darn African fraudsters. Not only do they order and try to get stuff shipped to them, but they order using the stolen credit cards real address just to be annoying. I've had up to \$5,000 in fraudelant orders in a single day.

Is it possible to block african traffic by IP? What's it called, Geo Targetting or something? What's a good company that offers this?

Why Blocking Happens: Security reason

How to block traffic from other countries in linux

Preventing site attacks from offending countries



It's a sad fact that the majority of malicious web traffic to US sites originates from the same handful of foreign countries. If your site doesn't benefit from actual users living in those countries, you may resolve to block them from accessing your site entirely in order to prevent repeated attacks. Here's how to blacklist entire countries under linux using iptables and ipset.

MORE GOOD

Microsoft Office

The Tools We Lo

Best tools for pr

Implications for Censorship measurements

Looked at one year of OONI measurements:

- * 479,378 pairs of access from 111 countries in a year
- * 1.7% (8111) server-side blocking
- * **GEO blocking:**
 - * fordfoundation.org inaccessible from Russia
- * **Security based blocking:**
 - * plannedparenthood.org inaccessible from 29 countries

Thanks!

sadia@icsi.berkeley.edu

internet-freedom-science.org/website-unavailability/