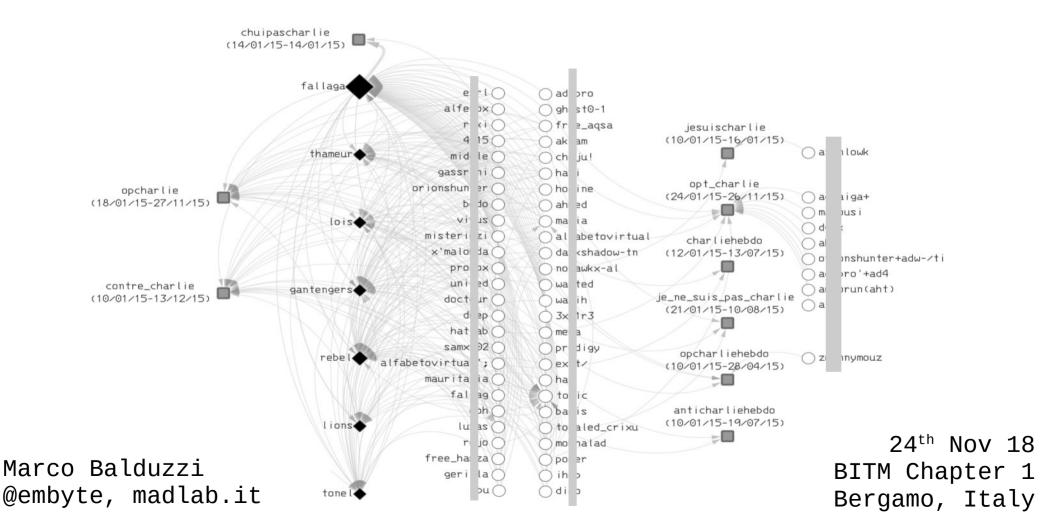
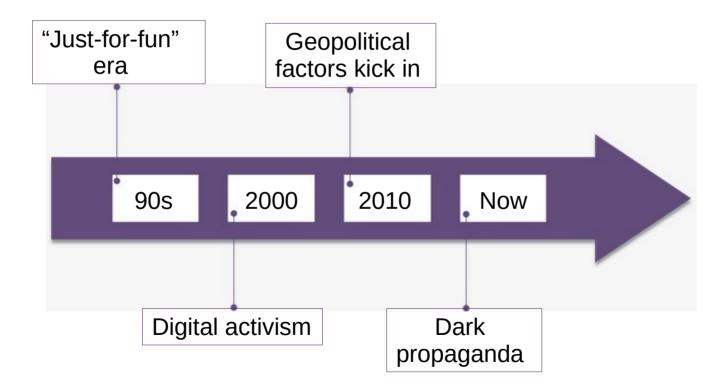
Investigate Web Campaigns at Large

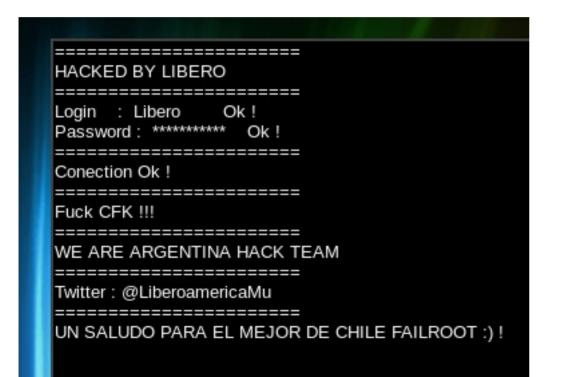


Web Defacement Website Compromise Homepage Hijacking

Evolution



"Just-for-fun" Era



| owned by ssh-2 | CHILE |

uname -a;id

Linux obelix 2.6.15-1-686 #2 Mon Mar 6 15:27:08 UTC 2006 i686 GNU/Linux

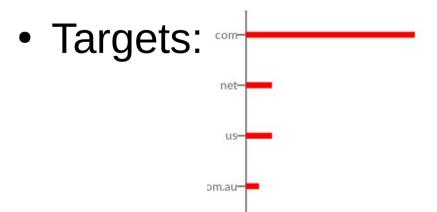
uid=0(root) gid=33(www-data) groups=33(www-data)

Digital Activism

We hack because we are fighting against bad information, all of us ain't terrorists, or stupid boyz who don't know what they're doing. We're just some guys, maybe we've grown fastly, but we're curious. Is it a crime to be interested in learning? Each of us has an own life, which can be good or bad. We don't like to live in misinformation or ignorance. We want a better world; a world where there ain't inequalities, differences, injustices: a new world! We don't want that the world will be guided by multinational companies, we don't want a world like this. Our world has to be of everyone who passes his/her own believings, religions, races, politic ideas, social conditions and everything which makes differences between people. We want this, and we're fighting for this. We are against each kind of war, against each kind of oppression, against each form of abuse of power: we're fighting and we'll fight in each place where the individual freedom is threatened. We will fight under each flag besides people we don't even know but whose idea of freedom is the same of our one. We haven't open access to the means of communication which are false, they say what they want and in the way they prefer, this is the only way to spread our ideas. Northern Ireland, Kosovo, Iran, Iraq, Afghanistan, Chile, Peru, Myanmar, Brazil, Philippines, Palestine, Pakistan, Kurdistan, Turkey, Algeria, South Africa, China Taiwan, Kenya are places where freedom is a dream, open your eyes, open your mind, wake up, and all toghether we'll turn freedom from dream to reality. You can agree with us or not. If you agree with us let diffuse this message to make our ideas become everybody's ideas

Geopolitical-driven Campaigns

- Death statement is 2nd of May 2011
- Campaign is 6th-12th of May





Sama bin Laden is not die ~ he Lives inside us .. God save you if you realy gone or still alive and be Sure will come a Millions of Osama bin Laden ..

Public Repositories



Search :				Notifier ~	Search	Notifier	Mass Notifier	Top10	00 User
TOP30 User	Date	Notifie	er	Domain			Country	PR	View
No1: 越南邻国宰相 [34333]	2016-02-12	То		http://bananabags.c	co.za/		Country	0	View
No2 : Jack Riderr [19199]	2016-02-12	То		http://bsvrenault.co	o.za/	Country	0	View	
No3: Mr.Kro0oz.305 [10672]	2016-02-12	То		http://bsgtriathlon.c	org/		Country	0	View
No4 : AlfabetoVirtual [8907]	2016-02-12	То		http://broadbandon	demand.co.za/		Country	0	View
No5: 宇少 [6559]	2016-02-12	То		http://bettacars.co.	za/		Country	0	View
No6:大圣 [6486]	2016-02-12	То		http://blog.camelot	kennels.co.za/		Country	0	View
No7: 域血 [5408]	2016-02-12	AI	Virtual	http://www.conseils	-incendie.fr/imag	es/j		0	View
No8 : That is me [5282]	2016-02-12	Al	Virtual	http://portalmare.it/	/images/jdownloa	ds/s	Country	0	View
No9: 憔悴 [5013]	2016-02-12	Al	Virtual	http://www.fruitinfo	.hu/images/jdowr	load		0	View

http://0536ink.com/cm.html

View

cł

2016-02-12

14

No11: 童梦玉 [4685]

No10: 颓废 [4791]

Others



Hack Mirror

@hackmirror

The place where we make you a legend

◎ The Universe

S hackmirror.com

Iscrizione a marzo 2012

Archive: Onhold Notify Search Rankings Con	Lates		Welcome to ace.com Let's Show off ied Mirrors	
Hi There! I am so happy to annouce the new Mirror-zone.org unrestected information site, with few nice changes.	Name		Domain	
We are now at testing this script, this means the script is not stable, and you may get some errors, if you face any issues please contact us and we will be glade to work with you to in	Dı	non	http://upsanddowns-hordaland.no/web	
order to resolve such issues. Also, this not mean that the Gold release will have the some futures with the bugs fixes, and we will continue to add new futures to the site.	Dı	non	http://bradfordcurtainsandblinds.co.uk/w	
Best Regards, Adminstration	Di	non	http://leatherheaddistrictscouts.org.uk/we	
	Di	non	http://leatherheaddistrictscouts.org.uk/w	
Hello	Dı	non	http://pickwickassociation.org.uk/weby	
mirror-zone.org followers, Did your defaced site mirror goes to onhold ? Because your notify name are missing on your deface page if you want your mirror goes to archive directly	Di	non	http://rhodapartridge.co.uk/webyep	

than follow the instructions 100

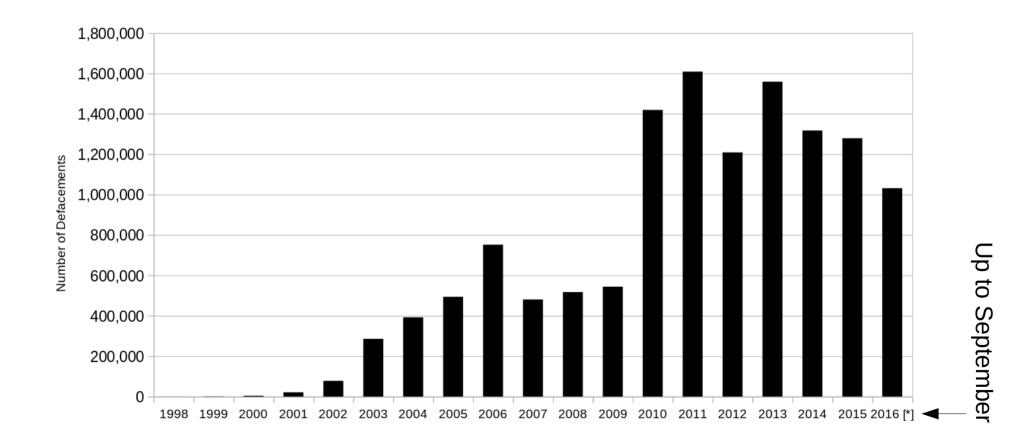
THE site :)



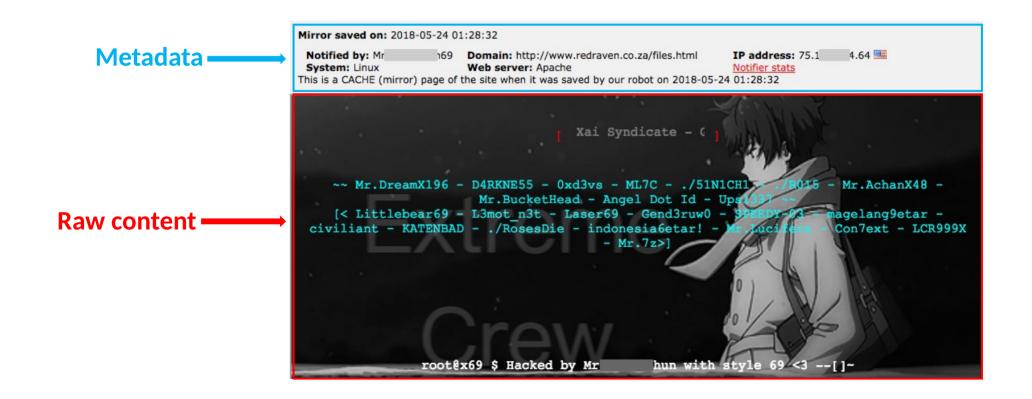
ZONE-H In Numbers

News: **4.738** Admins: **4** Registered Users: **142.949** Early Warning subscriptions: **7312** Digital Attacks: **13.498.756** Attacks On Hold: **333.287** Online Users: **268**

Timeline Evolution



Data Format



Detection Engineering

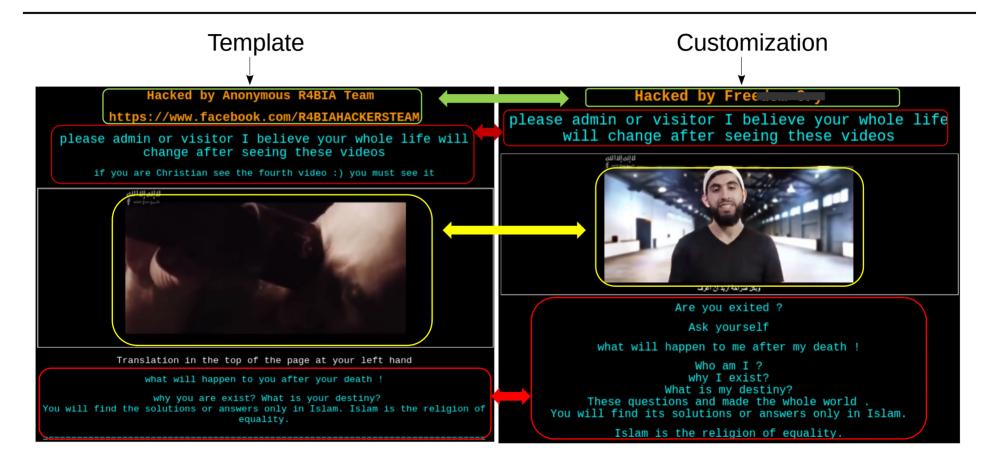
Key Observations





We are : Dr.

Key Observations



Key Observations

1. Actors **cooperate** in teams

Especially if driven by strong ideologies

2. Defacements are organized around **campaigns**

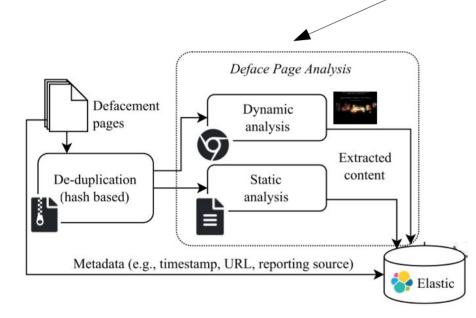
3. When a team prepares and runs a campaign, it tends to re-use a common **template** that each member can customize

Next Generation* Defacement Explorer

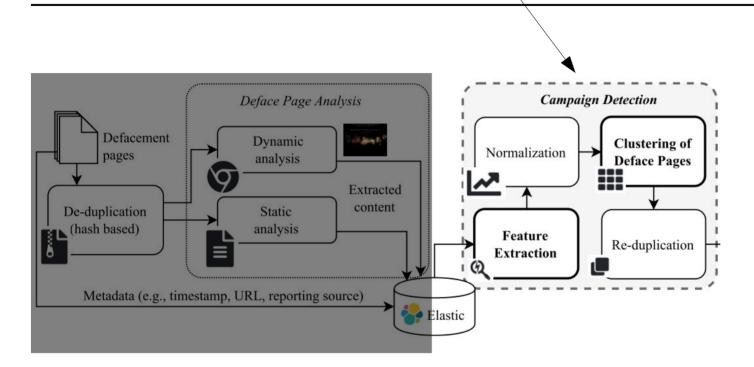
(DefPloreX-NG)

(*) 1st generation presented at BH Arsenal

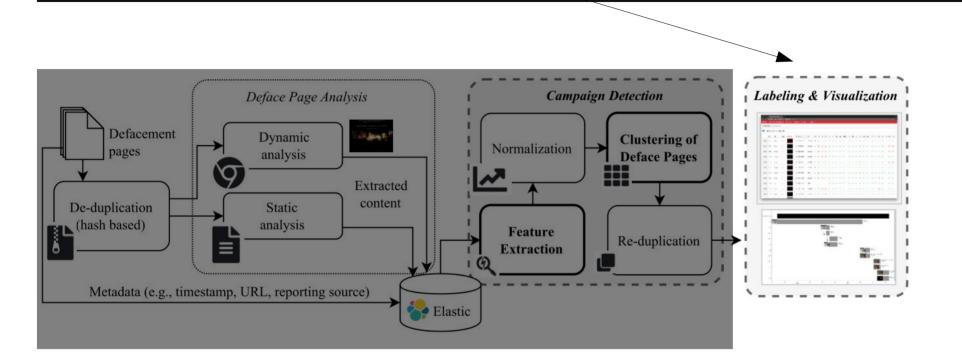
Deface Page Analysis



Campaign Detection



Labeling & Visualization



DefPloreX	Exp	lore defacement records like a sir.	📰 Features	I Records I	🙈 Clusters	Took 9,764 n	ns						
3,730 recor	rds	"Free Kashmir" AND tld_name:"in"	-	- Pre-Filte	ering Search				Th	e Indo-F	Pakist	ani co	nflict
503 cluster	r s p		•	– Campai	gns Search								
Choose cl	lusterir	ng features											
	Size	Кеу		Start	End	N. Attackers	N. Text Hashes	N. TLDs	N. Domains	Timeline			
Details	183			2013-11-01 12:00	2015-04-01 12:00	4	14	1	183	120 30- 1998-01	2002-10	2007-07	208.6-30
Details	153			2011-09-01 12:00	2016-04-01 12:00	4	7	1	135	80 20= 1978-01	2002-10	2007-07	201.6-30
Details	137		╸	2012-03-01 12:00	2015-11-01 12:00	3	3	1	120	140 35- 1998-01	2002-10	2007-07	208.6-30
Details	132			2011-06-01 12:00	2016-03-01 12:00	18	39	1	131	32 8	2002-10	2007-07	Jacobian 1006-30
Details	122			2015-03-01 12:00	2016-05-01 12:00	3	4	1	122	36 0	2002-10	2007-07	2016-10

JSON	17264154 • •	2012-03-18 01:10	
JSON	17264170 • •	2012-03-18 01:10	
JSON	17264172	2012-03-18 01:10	
JSON	17264197	2012-03-18 01:12	

Muslim Liberation Army Security Compromised by XtReMiSt

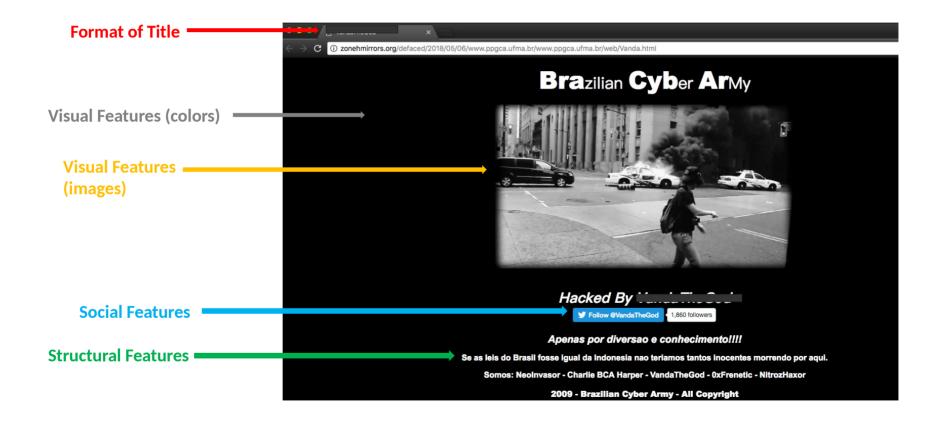
Free Kashmir .. Freedom is our goal..// End the Occupation

"Indian Panel Code (Act No. 45 of 1860) CHAPTER -II 18: India . India means the territory of India excluding the State of Jammu and Kashmir . "

This institutionalized impunity with which the killings of civilians by military and police forces in Jammu and Kashmir continues should be a source of shame for India which propagates to be a democracy!

Implementation Details

Features Engineering



Clustering

- BIRCH
 - Balanced Iterative Reducing and Clustering Hierarchies
- Do **not** materialize the entire distance matrix
 - Statistical values are efficient to compute
 - Quickly find the closest cluster for each new data points

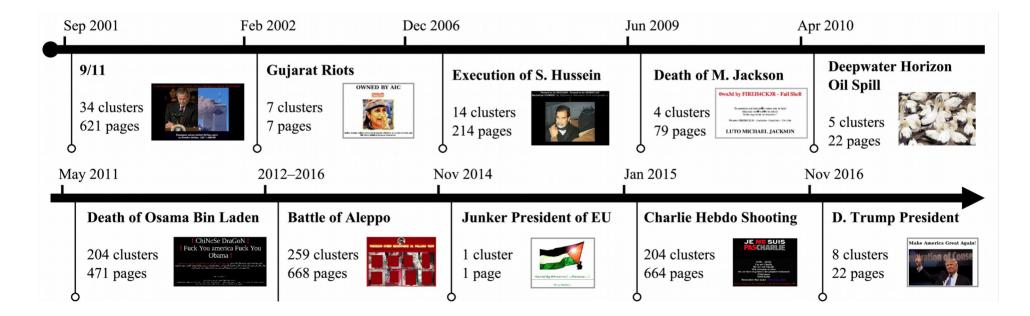
Labeling

- Each cluster is represented by a succinct report
 - Time span
 - Screenshot thumbnails (by perceptual hash)
 - Name of actors and teams
 - Keywords used in campaigns (e.g. #opfrance)
 - Category of targets (e.g, news, governmental sites)

Findings

Geopolitical Real-World Events

Successfully detected

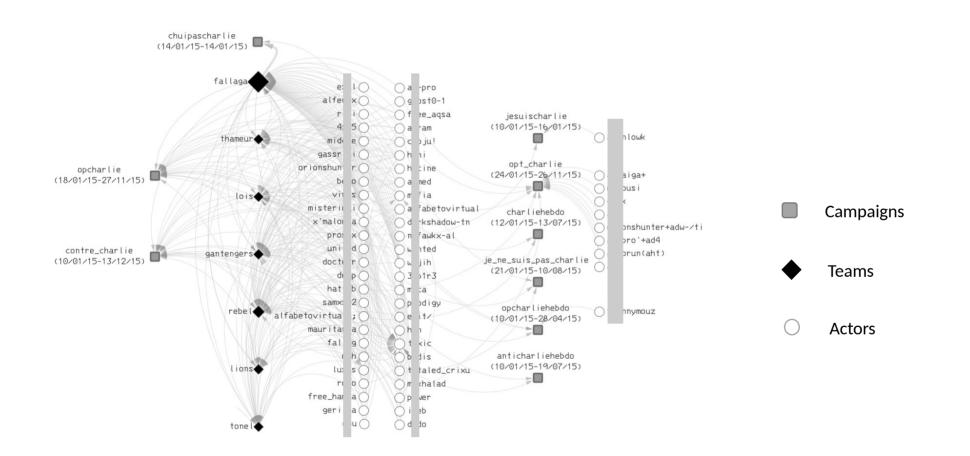


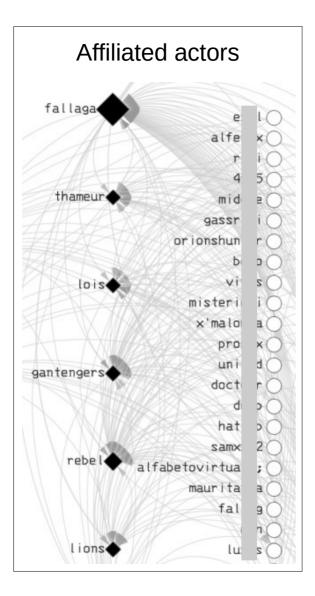
The "Charlie Hebdo" case

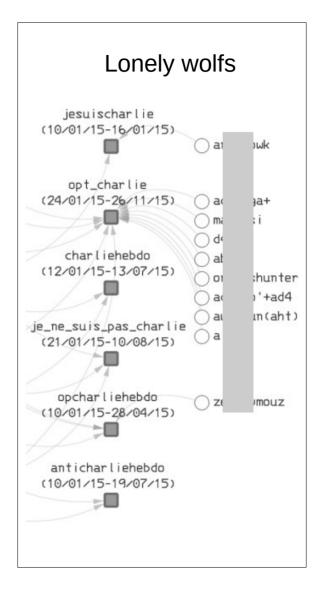


Hello.. Admin I'm not Charlie We are not Charlie This message is clear We are here to protect our prophet Mohamed #OpFrance #OpCharlie Remember that name **Docteur Hm**

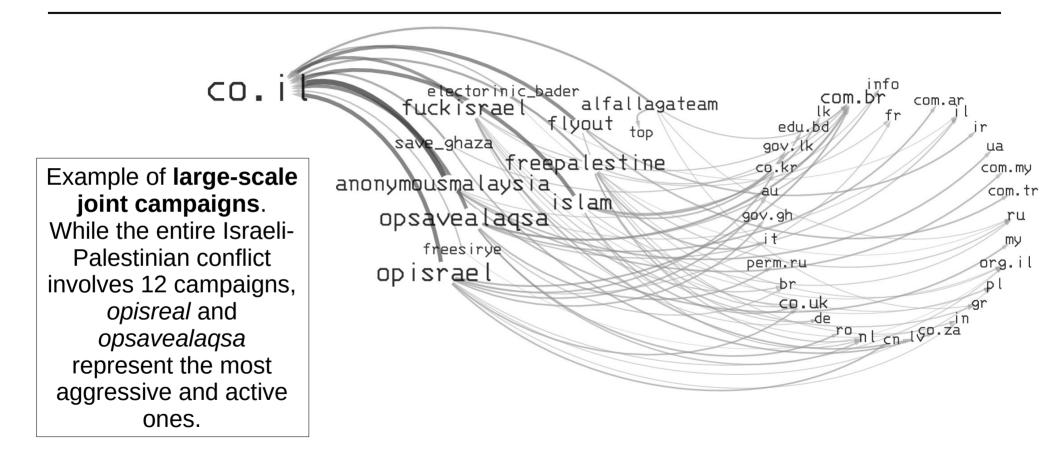
The "Charlie Hebdo" case



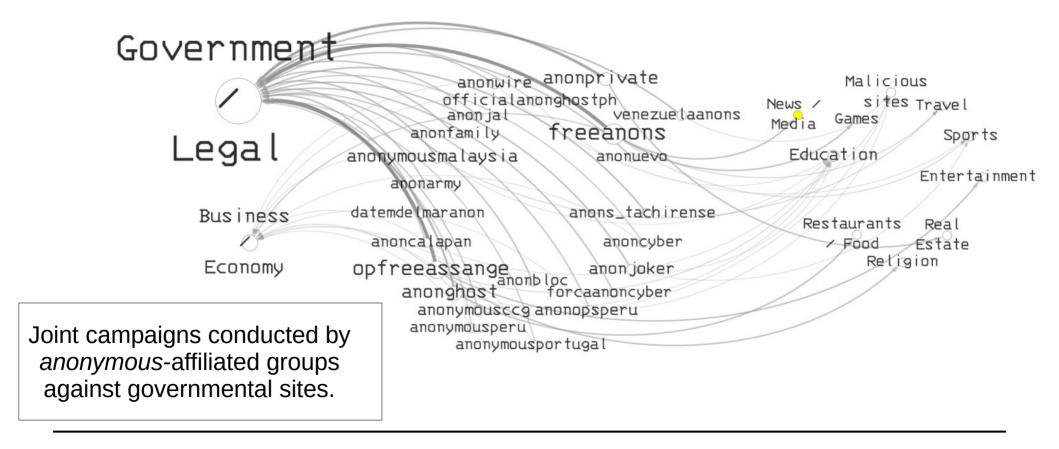




The Israeli-Palestinian conflict

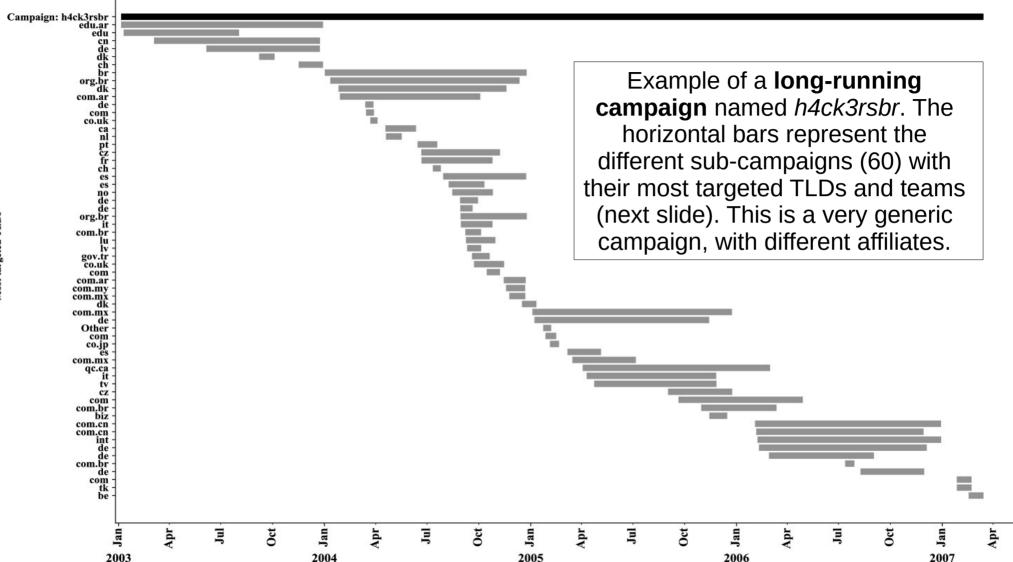


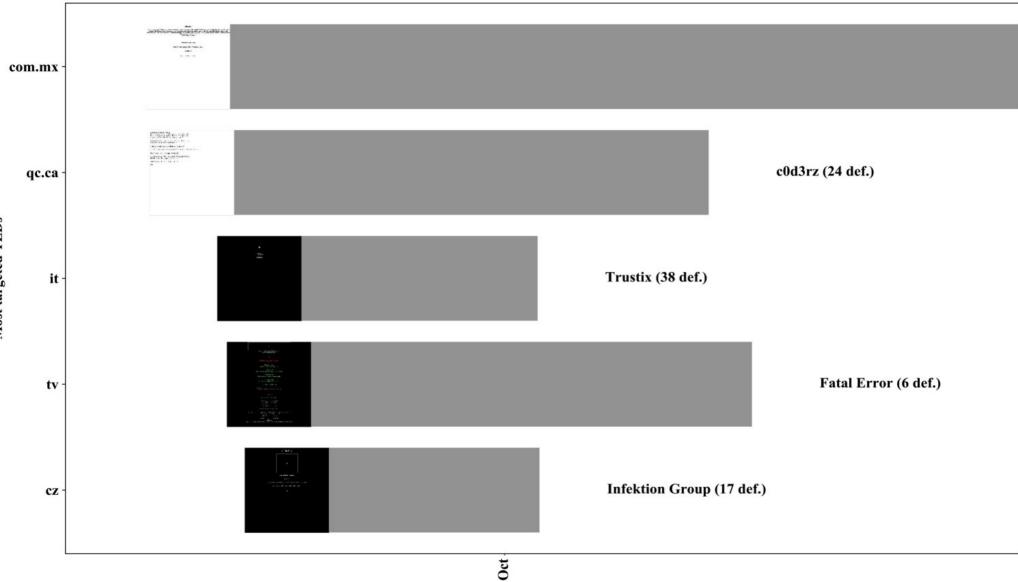
Anonymous Operations



Long-Term vs. Aggressive Campaigns







Most targeted TLDs

Conclusions

- Dark propaganda
- Prevailing phenomenon
- Driven by geopolitical motivations
- Key targets, influencing sites

• Contribute to make the Internet a better world!

Conclusions

- DefPloreX-NG
- GitHub (old code, new ask): https://github.com/trendmicro/defplorex
- Paper*:

https://documents.trendmicro.com/assets/wp/
wp-web-defacement-campaigns-uncoveredgaining-insights-from-deface-pages-usingdefplorex-ng.pdf

(*) Joint work with Federico Maggi, Ryan Flores, Lion Gu and Vincenzo Ciancaglini

Thanks! Questions?



Marco Balduzzi @embyte, madlab.it

HACKED BY Anonymous Ghost Gaza

|#Save Gaza| Death To Zionist |

We are Muslims, we the people will not accept that Palestine be <mark>occ</mark>upied for Israel will not eliminate Israel electronically on screens today and tomorrow with machine guns in the next Trqbona our attacks we Army Long live Palestine, Hamas Qassam
Op #Electorinic , #OP IL , #OP FR , #OP US , #OP UK

Cyber war has been declared on Zionist cyber space and you will see exactly what we are capable of. Our Target is your Governement's Websites ... We Will Take You Off From The Internet !

Your Credit Cards Your Bank's Accounts, Your Servers, Your Facebook, Twitters ... Are In Danger !

We Never Forget what You Do against the Humanity ... In GaZa Millions Of People Were Dead ... Palastinian's Muslims,Innocent Childrens, Womens Are Killed In The Force's Attacks...

Zionist Forces Destroyed Palestinian's Families , Homes ,schools, hospitals,mosks ... But No One Cares ! its the time to stop killing innocent peoples , and stop killing palastinians childs coz all da world know that zionist are the real terrorist.

Governement and Peopel of the thing named "Israel" will be a goal of Palestinian resistance rockets. To save your self your Family... You MUST forced your government to release every

prisoners on hunger strike... and to get out from Palestine Coz: NOUR MAPE FF WILL STAY PALASTINE FOR EVER. TILL WE DIE