
Global Phishing Survey

1H2012

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Global Response
to Cybercrime

Goals

- Study domain names and URLs to:
 - Provide a consistent benchmark for scope of phishing problems worldwide
 - Understand what phishers are doing
 - Identify new trends, hot-spots, success stories
 - Suggest anti-abuse measures
- Collected data from APWG database, CNNIC, and several other sources



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Data Sources

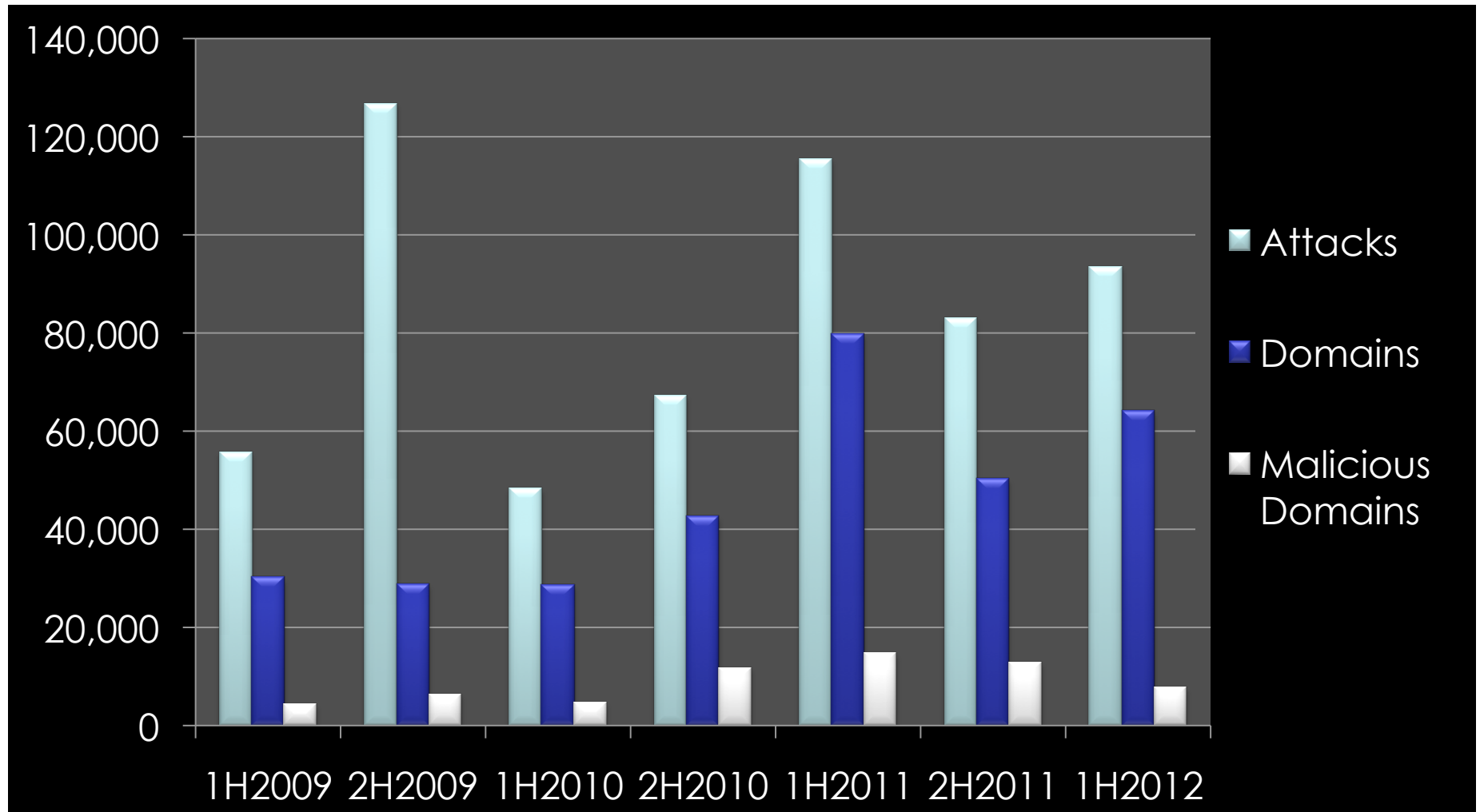
- Comprehensive sources:
 - APWG feed, phishing feeds, private sources, honeypots, CNNIC / APAC, DomainTools
- Millions of phishing URLs → small number of domain names and attacks.
- 240 million domain names in the world's registries



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Overview



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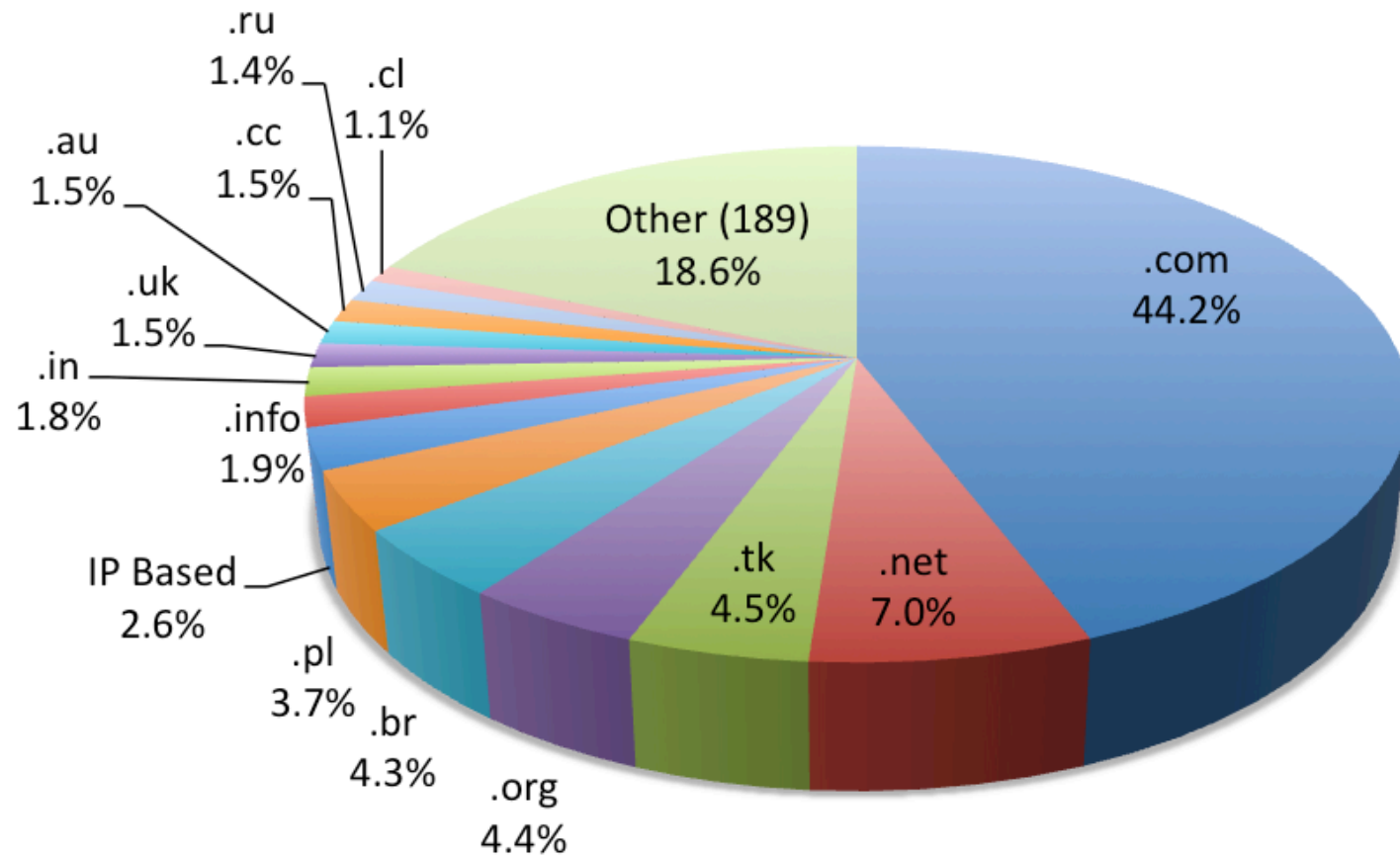
Basic Statistics

	1H2012	2H2011	1H2011	2H2010	1H2010
Phishing domain names	64,204	50,298	79,753	42,624	28,646
Attacks	93,462	83,083	115,472	67,677	48,244
TLDs used	202	190	200	183	177
IP-based phish (unique IPs)	1,864	1,720	2,385	2,318	2,018
Maliciously registered domains	7,712	12,895	14,650	11,769	4,755
IDN domains	58	36	33	10	10
Targets	486	487	520	587	568



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All Phishing Attacks by TLD, 1H2012



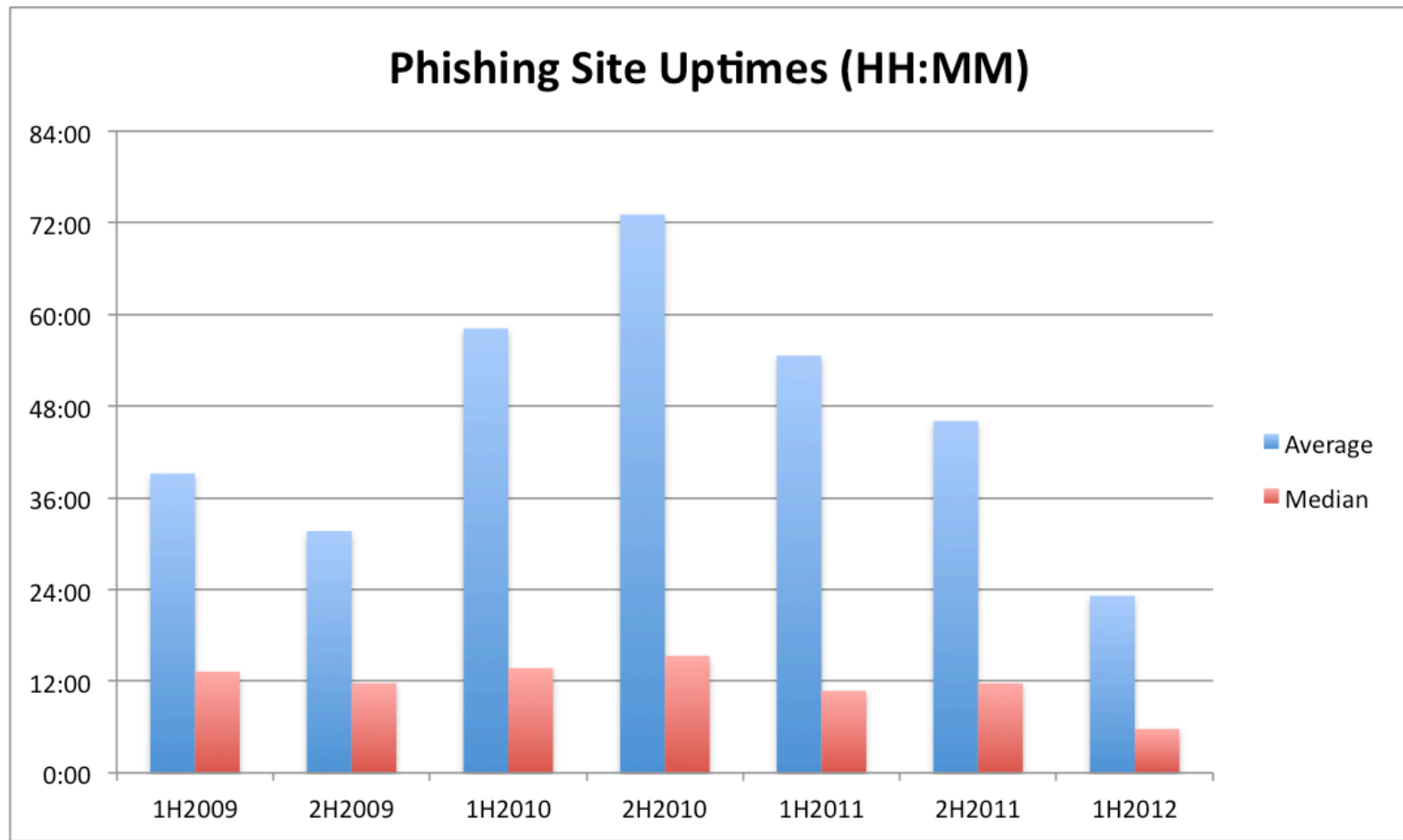
Phishing by TLD: Score

Rank	TLD	TLD Location	# Unique Phishing attacks 1H2012	Unique Domain Names used 1H2012	Domains in registry, May 2012	Score: Phish per 10,000 domains 1H2012
1	cl	Chile	1,024	831	383,100	21.7
2	pe	Peru	126	115	61,530	18.7
3	id	Indonesia	113	95	78,000	12.2
4	th	Thailand	122	77	69,490	11.1
5	br	Brazil	4,039	3,207	2,959,495	10.8
6	ec	Ecuador	36	31	30,001	10.3
7	ro	Romania	967	533	576,323	9.2
8	za	South Africa	764	644	779,500	8.3
9	in	India	1,690	1,351	1,674,552	8.1
10	uy	Uruguay	35	29	36,908	7.9



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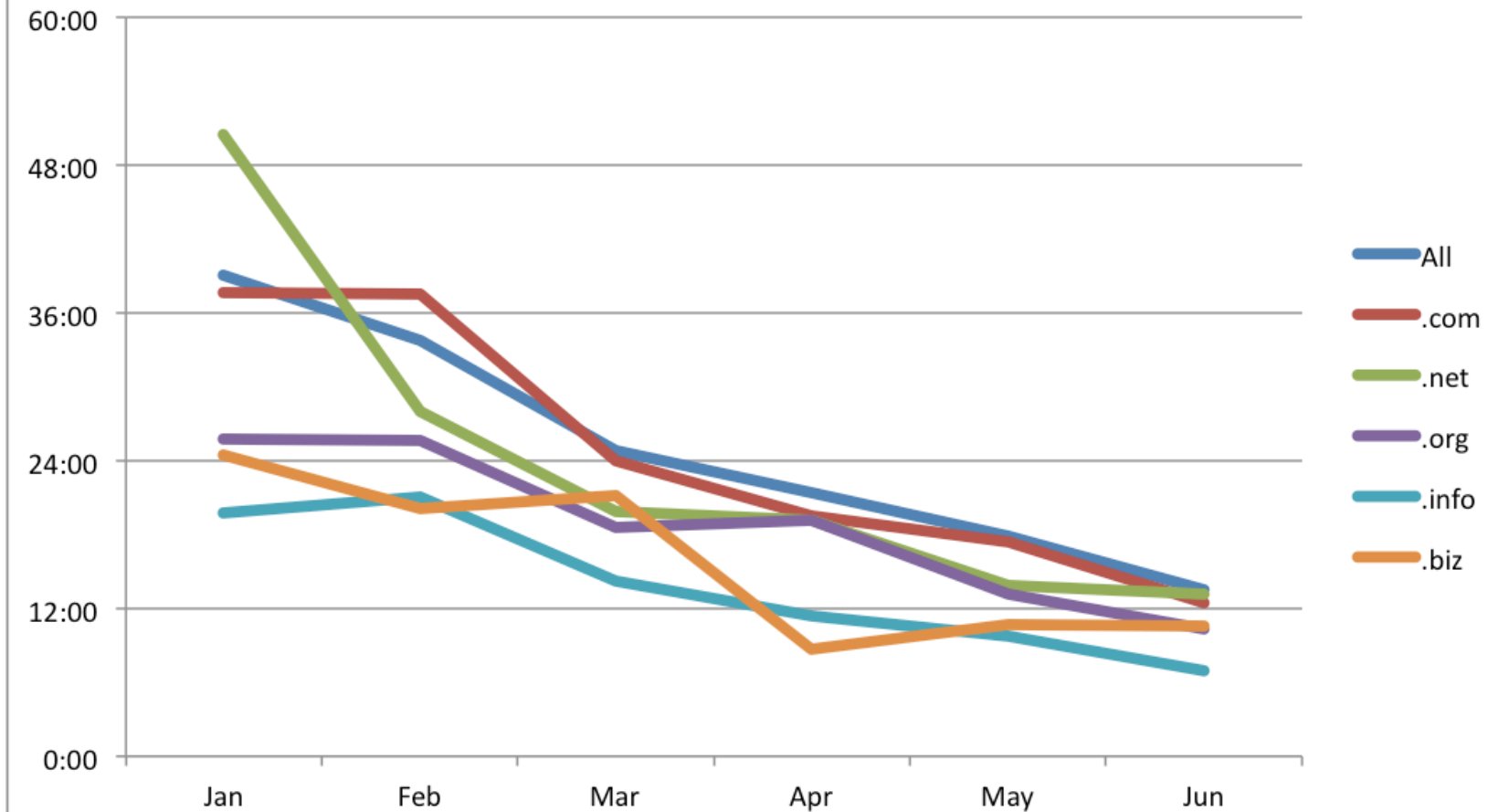
Phishing Site Uptimes 1H2012: 23:10 hours average, 5:45 median



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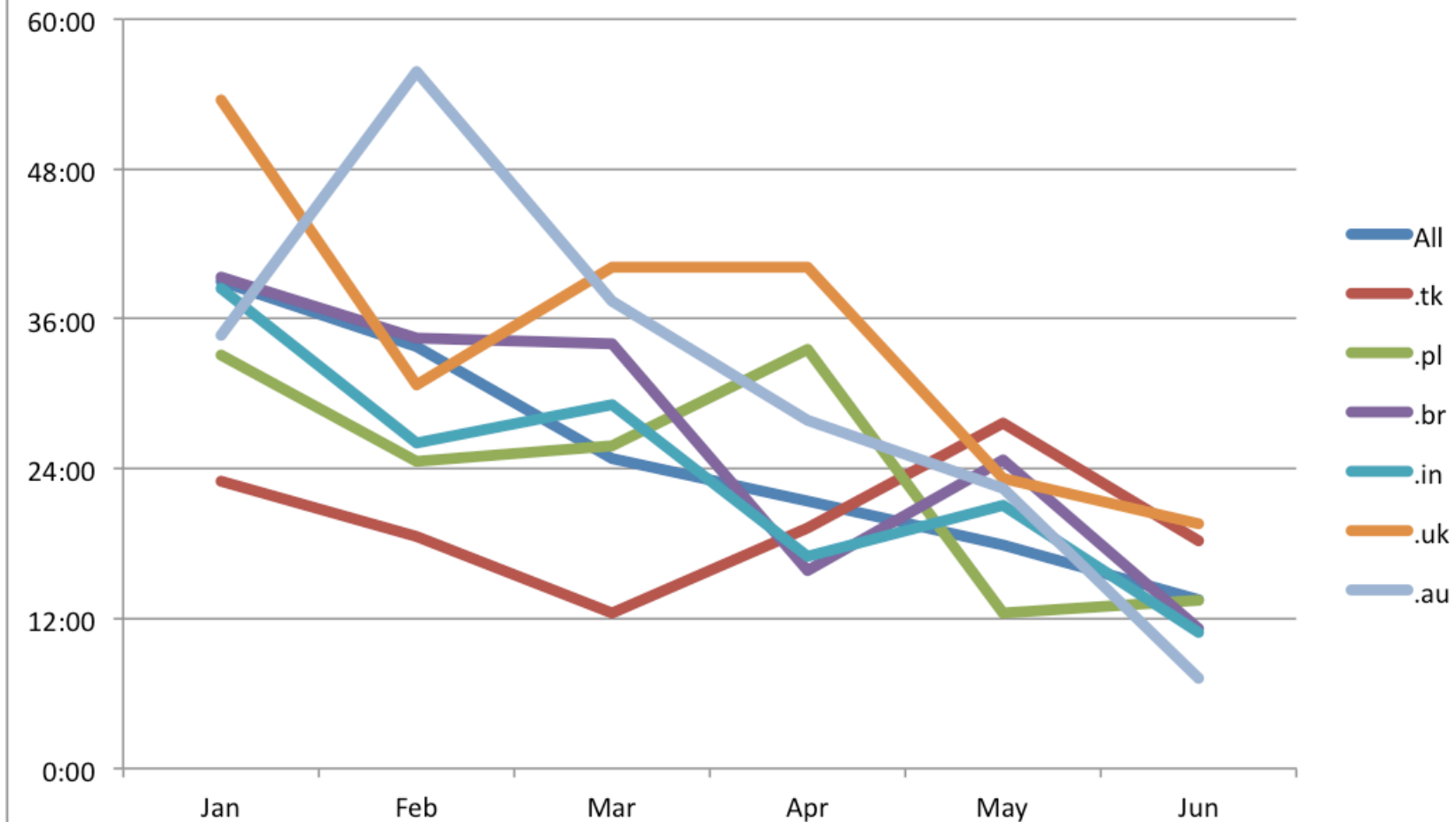
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gTLDs Average Phishing Uptimes 1H2012 (HH:MM)



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ccTLDs Average Phishing Uptimes 1H2012 (HH:MM)



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Virtual Server Hacking

- Phisher compromises server with single phishing site
- Updates server configuration to serve same site on ALL domains
- Great for spamming.
- 143 mass incidents, each involving at least 50 domains.
- **Involved 21,845 unique attacks, each using a different domain name. This was 23% of all phishing attacks worldwide.**

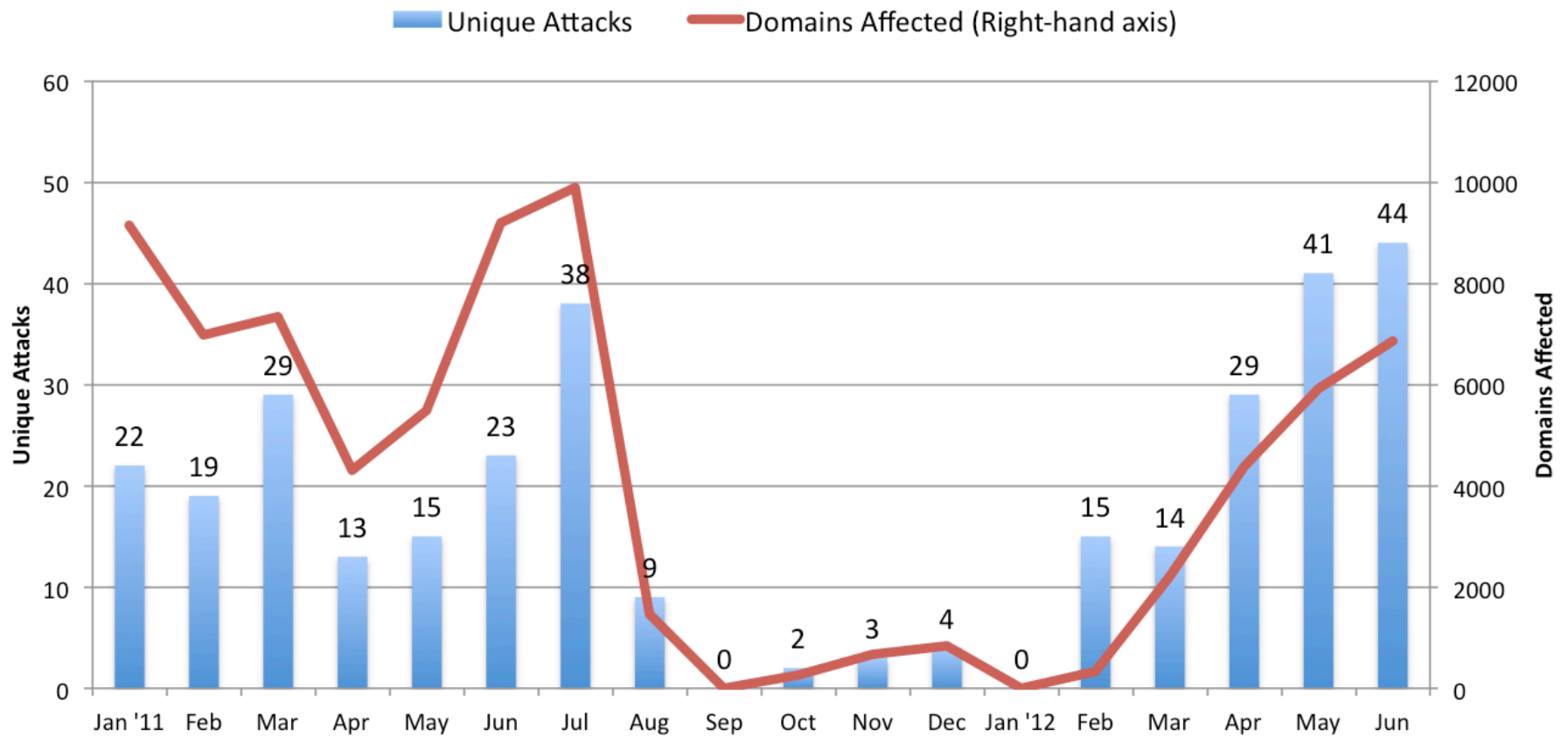


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Shared Virtual Server Attacks, Domains Affected, 2011 - 1H2012



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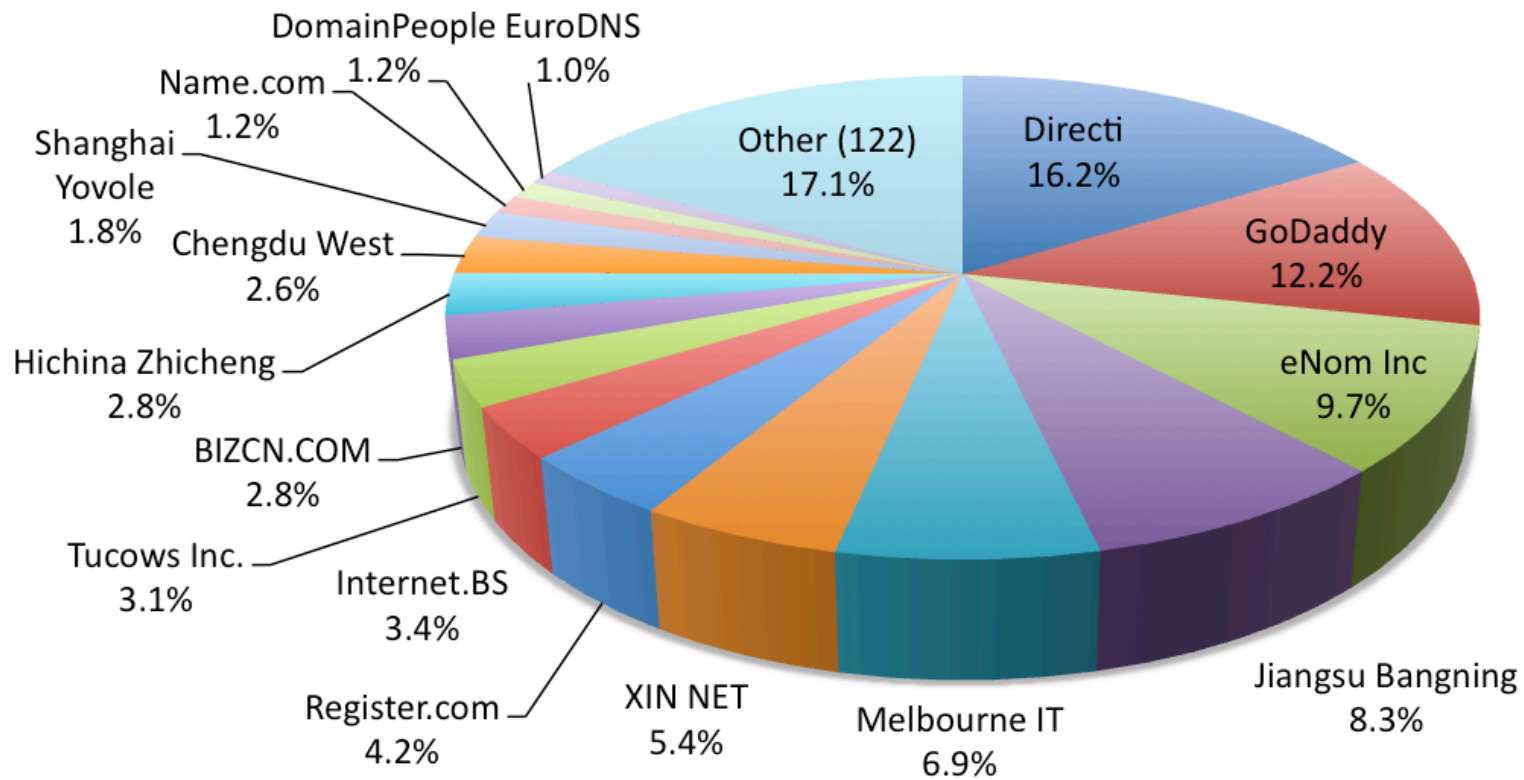
Phishing by Registrar

Rank	Registrar	Malicious Domain Names used for phishing 1H2012	TLD domains at registrar, September 2012	Score: Phish per 10,000 domains 1H2012
1	Shanghi Yovole Networks Inc.	63	1,537	44.2
2	Chengdu West Dimension Digital Technology Co.	88	3,177	30.9
3	Jiangsu Bangning Science and Technology Co. Ltd.	287	76,858	3.9
4	Internet.BS Corp.	118	89,402	1.5
5	BIZCN.COM, INC.	97	278,109	0.4
6	Directi Internet Solutions Pvt. Ltd. dba PublicDomainRegistry.com	558	1,724,071	0.4
7	Xin Net Technology Corp.	184	980,268	0.2



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Malicious Domain Registrations, by Registrar 1H2012



Use of Subdomain Services

Register

Report Abuse!

Get free domain



Check availability

usa.cc

- usa.cc
- nut.cc
- ibiz.cc
- igg.biz
- tld.cc

Choose any

WHAT IS FREEAVAILABLEDOMAINS.COM?

It is zero cost alternative to conventional .com, .net, .co.uk and other domains.
Currently you can register up to 25 free domain names.
Full DNS management included.
Free DNS service for your own domains.



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Subdomain Resellers

Provider	Rank	Attacks
bee.pl (osa.pl)	1	2,290
freeavailabledomains.com	2	958
x90x.net	3	799
Oray	4	548
ServersFree.com	5	541
nazuka.net	6	326
altervista.org	7	324
blo.pl	8	310
ias3.com	9	284
linkpc.net	10	275

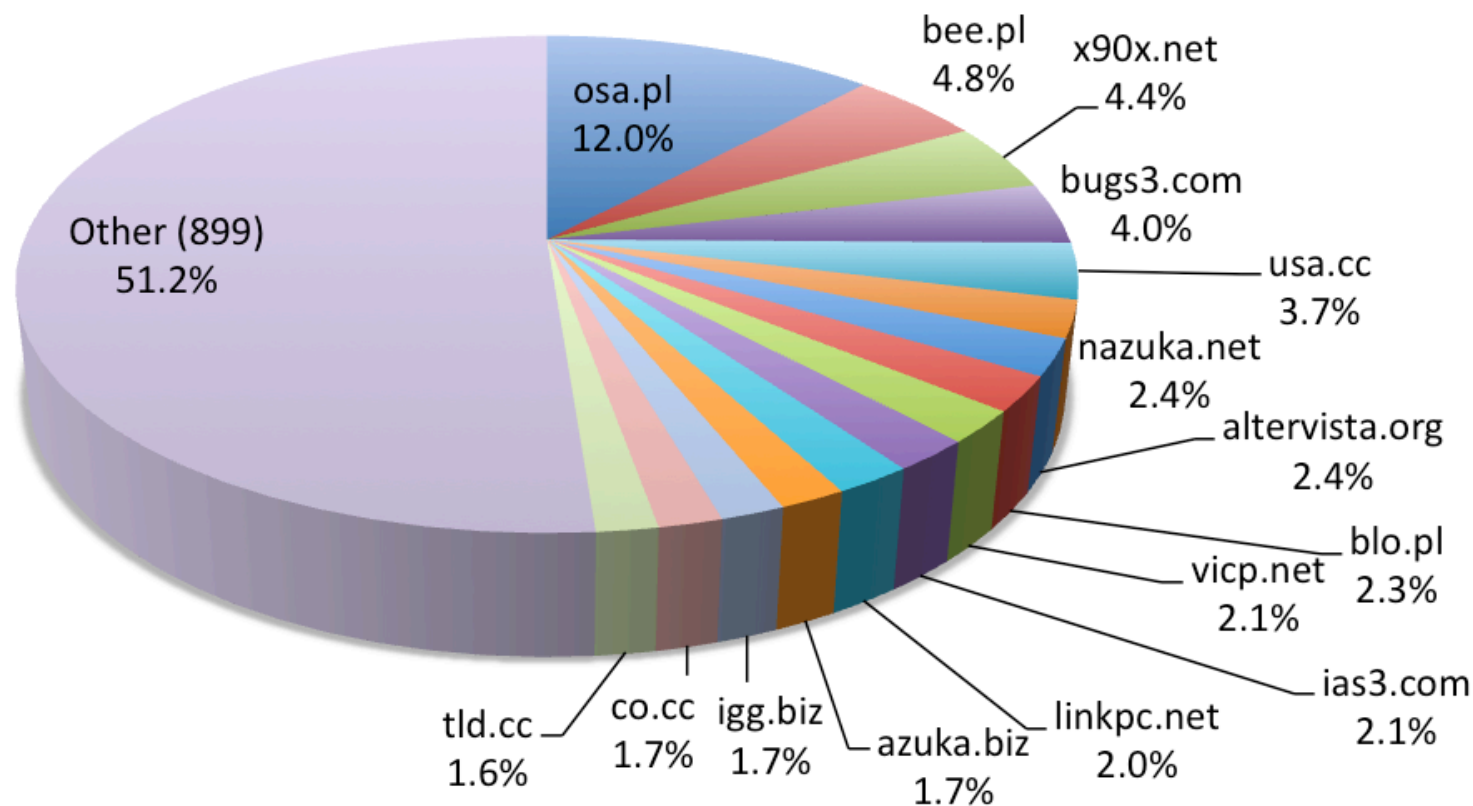


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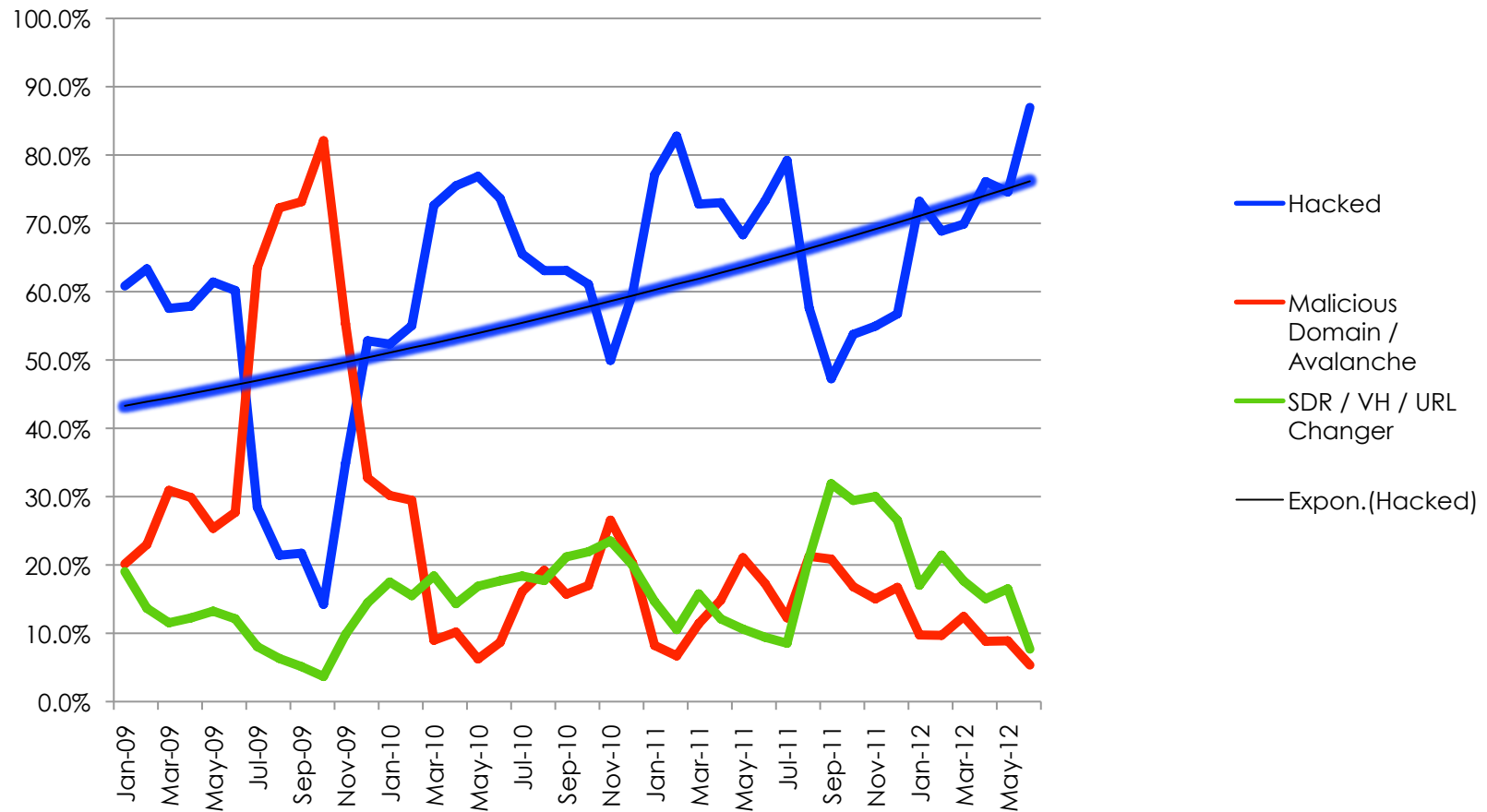
Top Subdomain Services Used for Phishing 1H2012



International Domain Names (IDNs)



Shifting Tactics



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Thank you!

Full report on the APWG.org
Web site, under “Resources”

