



CYBER SECURITY

- ASHWIN PHADKE



STATISTICS

- More than 4,000 ransomware attacks have occurred every day since the beginning of 2016.
- In 2016, the U.S government spent a whopping \$28 billion on cyber security — and this is expected to increase in 2017 – 2018.
- The average amount demanded after a ransomware attack is \$1,077.
- 1 in 131 emails contains a malware.
- In 2017, 6.5 percent of people are victims of identity fraud — resulting in fraudsters defrauding people of about \$16 billion.
- Unfilled cyber security jobs are expected to reach 3.5 million by 2021 — compared to about 1 million in 2016.
- 230,000 new malware samples are produced every day — and this is predicted to only keep growing.
- China is the country with highest number of malware-infected computers in the world.
- 78 percent of people claim to know the risks that come with clicking unknown links in emails and yet still click these links.
- Android is the second most targeted platform by hackers after Windows.



THIS GUY IS FAMILIARLY UNFAMILIAR



#1

Blockchain will find uses outside of cryptocurrencies but cybercriminals will focus on coins and exchanges

#2

Cybercriminals will use AI and machine learning to conduct attacks

#3

Supply chain attacks will become mainstream

#4

File-less and file-light malware will explode

#5

Organisations will still struggle with SaaS security

CYBERSECURITY PREDICTIONS 2018

**#6**

More breaches due to error, compromise and design

#7

Financial trojans will still account for more losses than ransomware

#8

Expensive home devices will be held to ransom

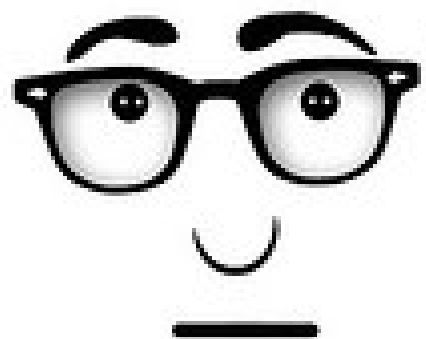
#9

IoT devices will be hijacked and used in DDoS attacks against us

#10

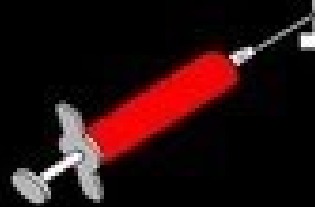
IoT devices will provide persistent access to home networks

If it's on the
Internet, it
isn't private.





SQL injection

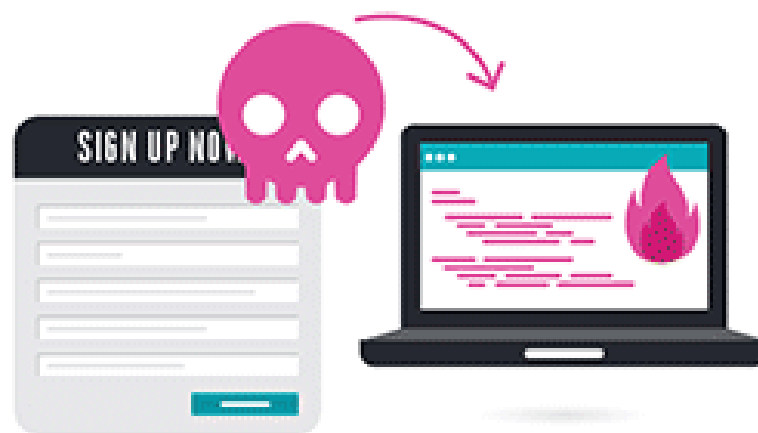




WHAT IS SQL INJECTION?



A SQL query is one way an application talks to the database.



SQL injection occurs when an application fails to sanitize untrusted data (such as data in web form fields) in a database query.



An attacker can use specially-crafted SQL commands to trick the application into asking the database to execute unexpected commands.

BROWSER
SNIFFING

JAVASCRIPT
ATTACKS

BROWSER SECURITY

INFECTED TERMINAL

CANVAS
FINGERPRINTING



I KNOW WHAT YOU DID ON THE WEB

HOW YOUR FAVORITE PERSONALIZED SITES ARE USING YOUR DATA

The sites you frequent on a daily basis are actively gathering facts about you. That's why that jacket you've been coyly eyeing inconspicuously appeared in an ad on an unrelated website. Social networks are betting on a future built on a personalized web, your own Internet paradise filled with items the virtual you will likely share, pin, tweet, or "like."

We take a look at what information your favorite sites gather and what they do with it.

COMPANY

NUMBER OF ACTIVE USERS

ANNUAL AD REVENUE

TYPE OF DATA GATHERED



Browser



Time, date



7,100,33 IP address



Search queries



Email address



Phone number



Device-specific information



Ad clicks



Location



OS Operating system



Third-party connect data



Profile information



SMS SMS routing information

How to define Android :
Someone is hearing, seeing and
knowing whatever you do with your
“SMART” phone



SCOPE OF CYBER ATTACKS:

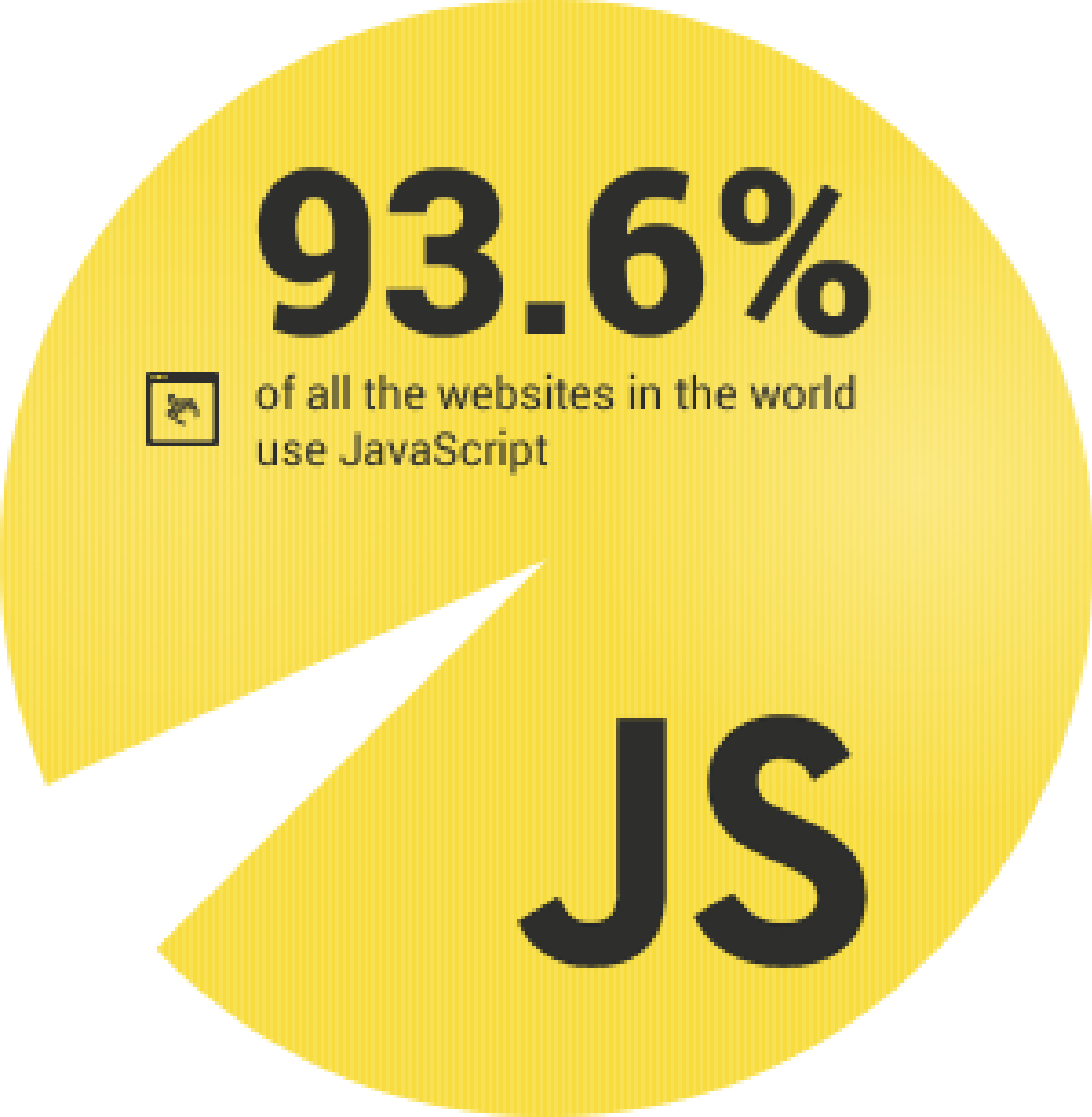


- Reconnaissance/Footprinting
- SQL Injection
- Scanning Networks
- Enumeration
- Hacking Web Servers
- Hacking Web Applications
- Cryptography
- Sniffing
- Session Hijacking
- Social Engineering
- System Hacking
- Denial of Service
- Hacking Wireless Networks
- Malware Threats
- Evading IDS, Firewalls, and
- Hacking Mobile Platforms

HEARD THEM ANYWHERE ?

- SPECTRE AND MELTDOWN
- WANNACRY
- NOTPETYA
- UBER
- YAHOO
- EQUIFAX
- VISA CARD



A yellow pie chart with a single slice removed, representing 93.6% of the total. The text '93.6%' is prominently displayed in the upper left portion of the chart. Below it, a small icon of a document with a checkmark is followed by the text 'of all the websites in the world use JavaScript'. The letters 'JS' are written in a large, bold font in the lower right portion of the chart.

93.6%



of all the websites in the world
use JavaScript

JS

JAVASCRIPT VULNERABILITIES

CAN IT BE YOUR CAREER ?



SO WHO'S GONNA SAVE ME FROM THIS
T-REX



TIPS

- DUCK DUCK GO .
- TORR
- VPN
- TWEAK YOUR PRIVACY SETTINGS
- USE A GOOD ANTIVIRUS
- BETTER BE PROTECTED AGAINST MALWARE , ADWARE
- USE OPEN SOURCE SOFTWARE(LINUX)
- SECURE YOUR ROUTER
- GET A DECENT LOOK AT SETTINGS.
- BE AWARE
- **AND A FEW VOCAL TIPS : YEAH ! THEY ARE WATCHING**



DuckDuckGo



ASHWIN PHADKE

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THANK YOU