

THIS WAY



NO, it is not about horror stories concerning JavaScript

WEALL LOVE FEAR-MONGERING.

```
A Good Cast Is Worth Repeating ...
             The Players
Morgan . . . . . BORIS KARLOFF
Penderel . . . MELVYN DOUGLAS
Sir William Porterhouse . . . Charles Laughton
Gladys .... Lillian Bond
Horace Femm . . . . . Ernest Thesiger
Rebecca Femm . . . . . . . Eva Moore
Philip Waverton . . . . . Raymond Massey
Margaret Waverton . . . . . . . . . . . . Gloria Stuart
Sir Roderick Femm . . . John Dudgeon
Saul Femm . . . . . . . . . . . Brember Wills
                       . Brember Wills
                     . . John Dudgeon
```

starting with the credits...

A Short History

of the javascript security arsenal

Cast

cfcd208495d565ef66e7dff9f98764da c4ca4238a0b923820dcc509a6f75849b c81e728d9d4c2f636f067f89cc14862c eccbc87e4b5ce2fe28308fd9f2a7baf3 a87ff679a2f3e71d9181a67b7542122c e4da3b7fbbce2345d7772b0674a318d5 1679091c5a880faf6fb5e6087eb1b2dc 8f14e45fceea167a5a36dedd4bea2543 c9f0f895fb98ab9159f51fd0297e236d 45c48cce2e2d7fbdea1afc51c7c6ad26 d3d9446802a44259755d38e6d163e820 6512bd43d9caa6e02c990b0a82652dca c20ad4d76fe97759aa27a0c99bff6710 c51ce410c124a10e0db5e4b97fc2af39 aab3238922bcc25a6f606eb525ffdc56 9bf31c7ff062936a96d3c8bd1f8f2ff3 c74d97b01eae257e44aa9d5bade97baf 70efdf2ec9b086079795c442636b55fb

. . . .

Web Technologies Of The 90s





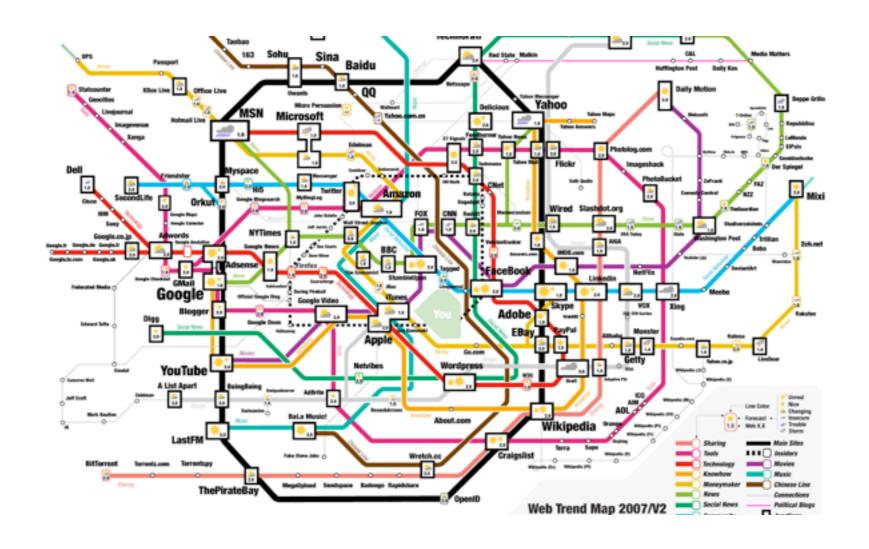


Web Technologies As Of Today

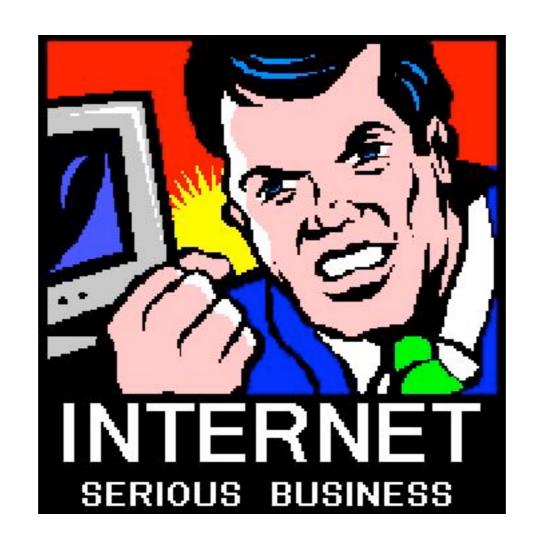




NOISE



THE WWW MAP



SERIOUS BUSINESS



SECURITY IS FASHION

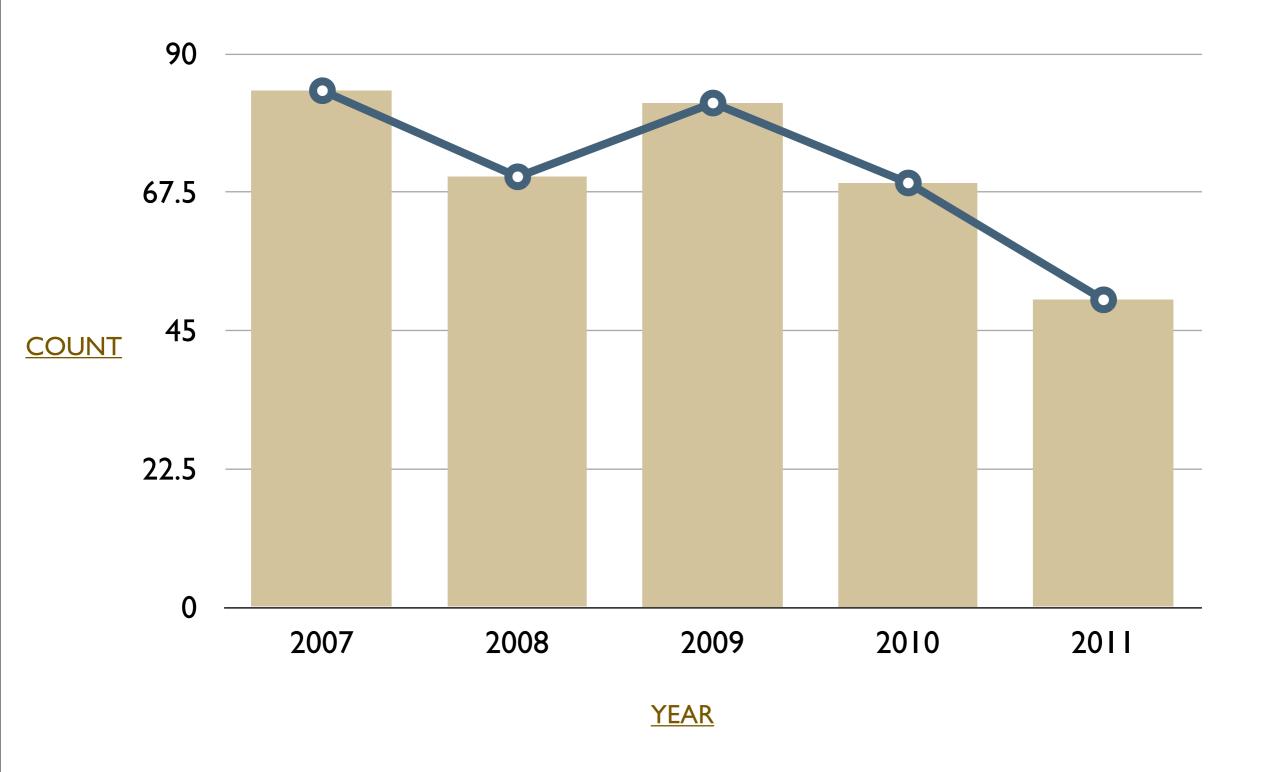
- XSS Vulnerabilities in Common Shockwave Flash Files
- Universal XSS in Adobe's Acrobat Reader Plugin
- Firefox's JAR: Protocol Issues
- Cross-site Printing (Printer Spamming)
- Hiding JS in Valid Images
- Firefoxurl URI Handler Flow
- Anti-DNS Pinning (DNS Rebinding)
- Google Gmail E-mail Hijack Techniques
- PDF XSS Can Compromise Your Machine
- Port Scan without JavaScript

- GIFAR
- Breaking Google Gears' Cross-Origin Communication Model
- Safari Carpet Bomb
- Clickjacking/Videojacking
- A Different Opera
- Abusing HTML 5 Structured Client-side Storage
- Cross-domain leaks of site logins via Authenticated CSS
- Tunneling TCP over HTTP over SQL Injection
- ActiveX Repurposing
- Flash Parameter Injection

- Creating a rogue CA certificate
- HTTP Parameter Pollution (HPP)
- Flickr's API Signature Forgery Vulnerability (MD5 extension attack)
- Cross-domain search timing
- Slowloris HTTP DoS
- Microsoft IIS 0-Day Vulnerability Parsing Files (semi-colon bug)
- Exploiting exploitable XSS
- Our Favorite XSS Filters and how to Attack them
- RFC1918 Caching Security Issues
- DNS Rebinding Persistent Cookies, Scarping & Spamming and Session Fixation

- Padding Oracle' Crypto Attack
- Evercookie
- Hacking Auto-Complete
- Attacking HTTPS with Cache Injection
- Bypassing CSRF protections with ClickJacking and HTTP Parameter Pollution
- Universal XSS in IE8
- HTTP POST DoS
- JavaSnoop
- CSS History Hack in Firefox Without JavaScript for Intranet Portscanning
- Java Applet DNS Rebinding

- Bypassing Flash's local-with-filesystem sandbox
- Abusing HTTP Status Codes to Expose Private Information
- SpyTunes: Find out what iTunes music someone else has
- CSRF: Flash + 307 redirect = Game Over
- Close encounter of the third kind (client-side JavaScript vulnerabilities)
- Tracking users that block cookies with a HTTP redirect
- The Failure of Noise-Based Non-Continuous Audio Captchas
- Kindle Touch (5.0) Jailbreak/Root and SSH
- NULLs in entities in Firefox
- Timing Attacks on CSS Shaders





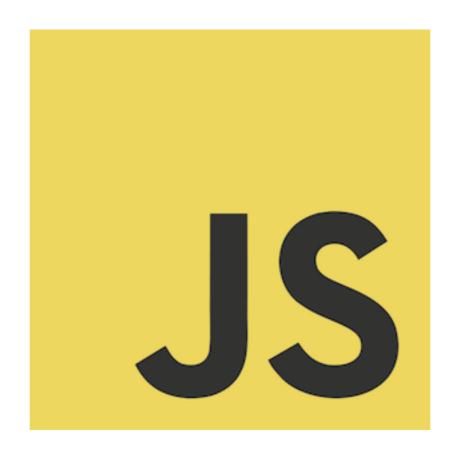
WARNING



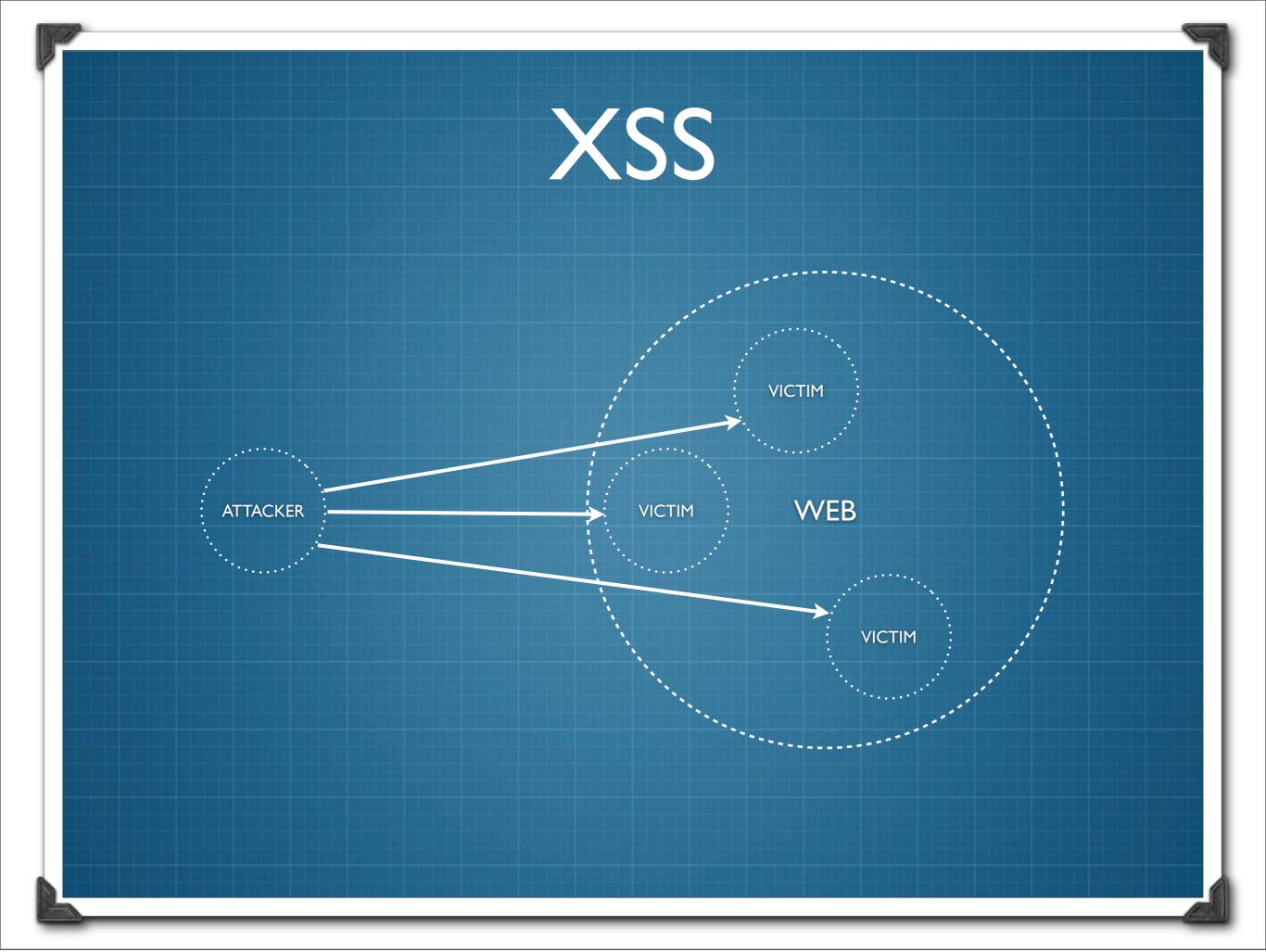
JAVASCRIPT



NOTAJAX



JUST JAVASCRIPT



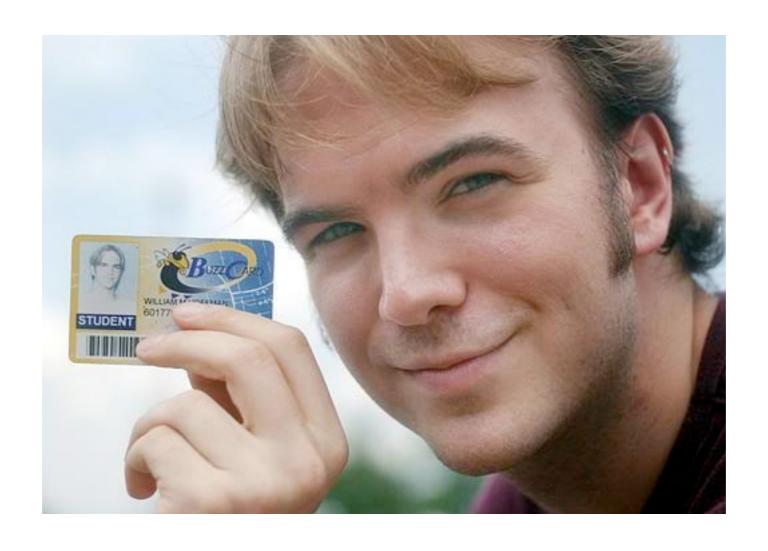
alert(1);

Some XSS Attacks

- 2005 Myspace Worm, Facebook Worm
- 2006 Yammaner Worm
- 2007 Orkut Worm
- 2008 Yahoo IM XSS
- 2009 Twitter hit by multiple XSS variants, Memova XSS
- 2010 Apache XSS Attack
- 2011 Obama XSS, PWN2OWN via XSS, Skype XSS
- 2012 Facebook Math.Random XSS, Gmail Stored XSS



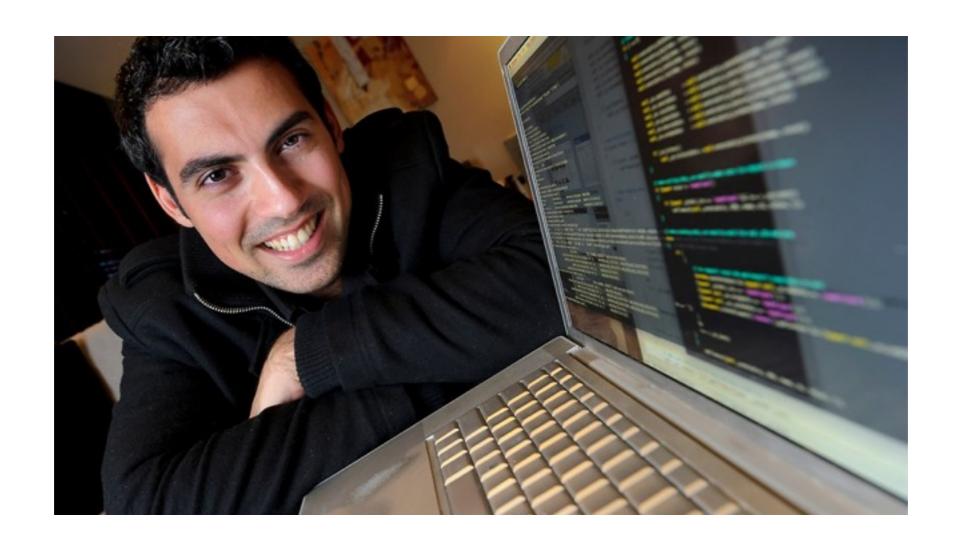
...inspiration for this presentation...



JIKTO

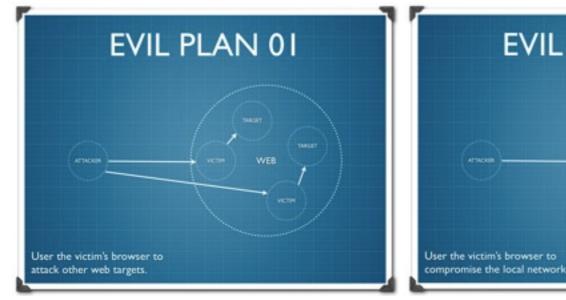


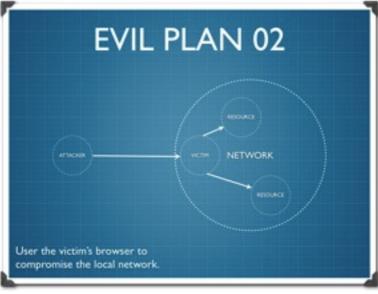
ATTACKAPI



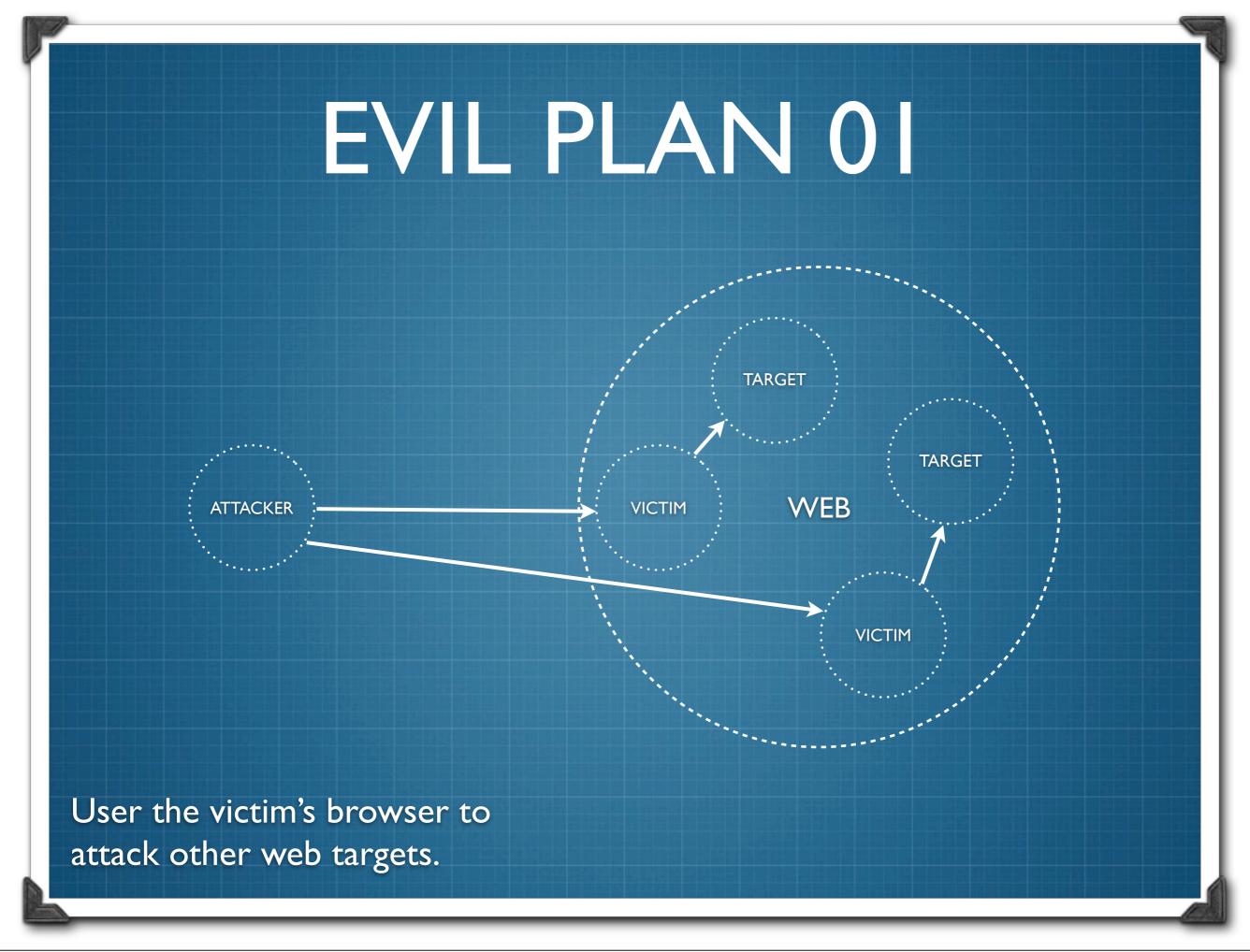
MYSPACEWORM

3 Evil Plans

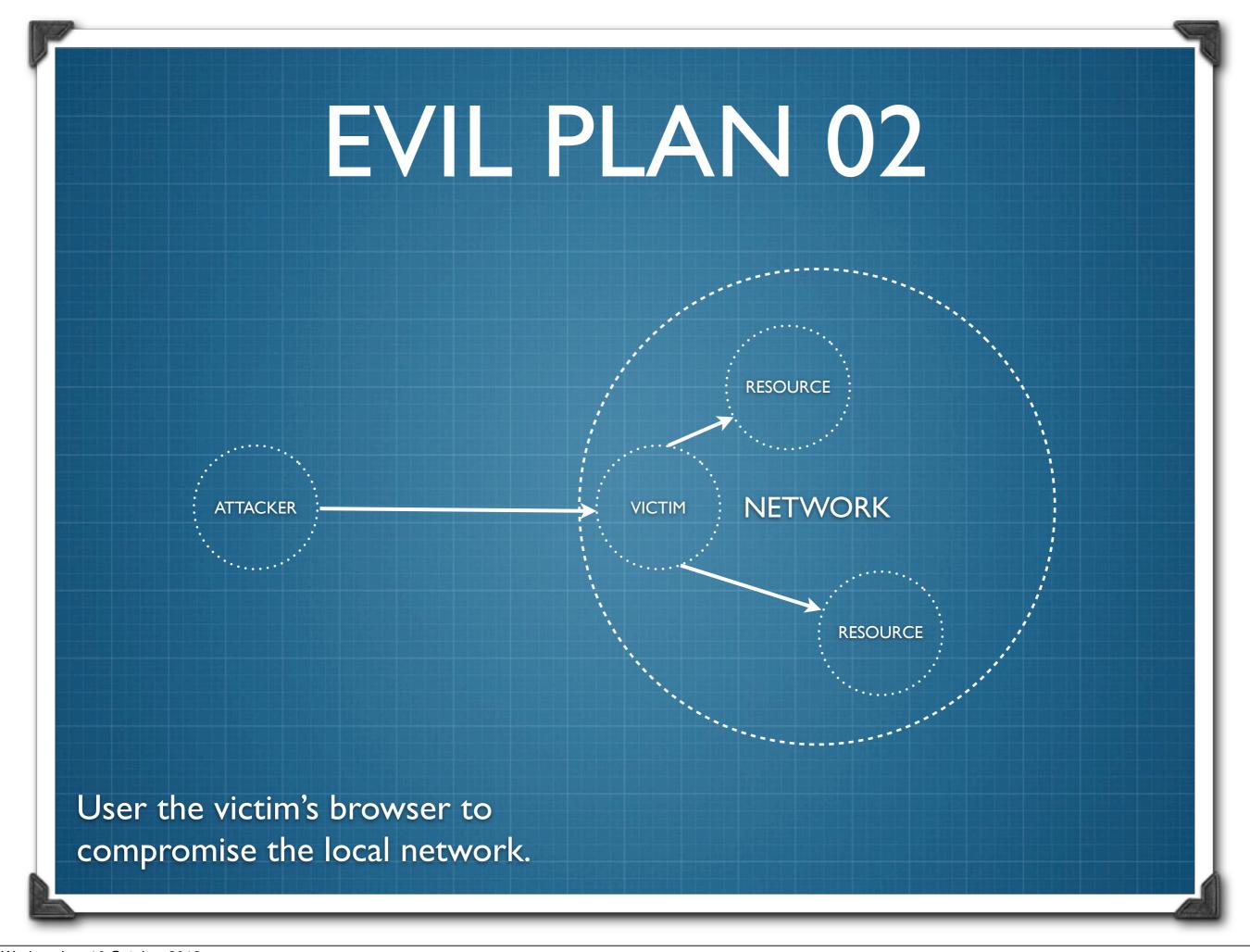








Evil Plan 0 I JIKTO



Evil Plan 02

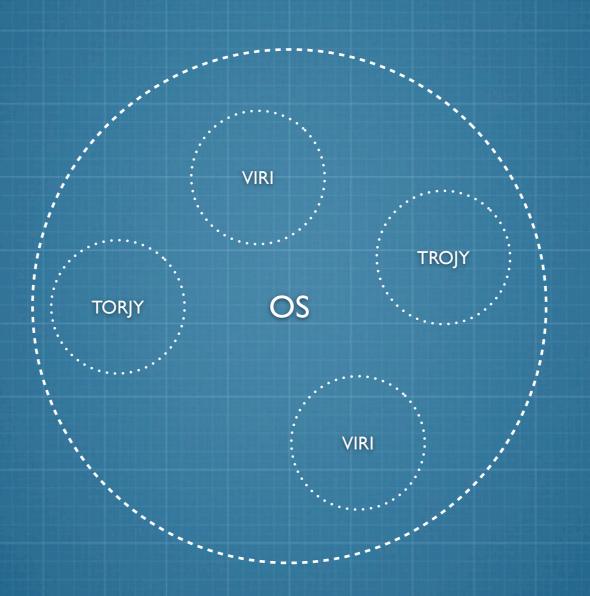
- JavaScript Port Scanner
- JavaScript Authorisation Brutforcer
- Attacking UPnP
- CSRF and Authentication Bypass in home routers
- Attacking Linksys cameras
- Attacking other embedded network devices

EVIL PLAN 03 **VICTIM ATTACKER** SOCIAL VICTIM NETWORK **VICTIM** User the victim's browser to attack other people's profiles.

Evil Plan 03 ALL OF 'EM



BONUS EVIL PLAN



User the victim's browser to compromise the system.

Bonus Evil Plan



Attacking Browsers and Browser Chrome



Abuse Browser Extension System



Weaken Browser Security Controls



Use other system tools like JScript, etc.

GNUCITIZEN

2005, 2006, 2007, 2008



TOOLS

Client-Side Exploitation





UST

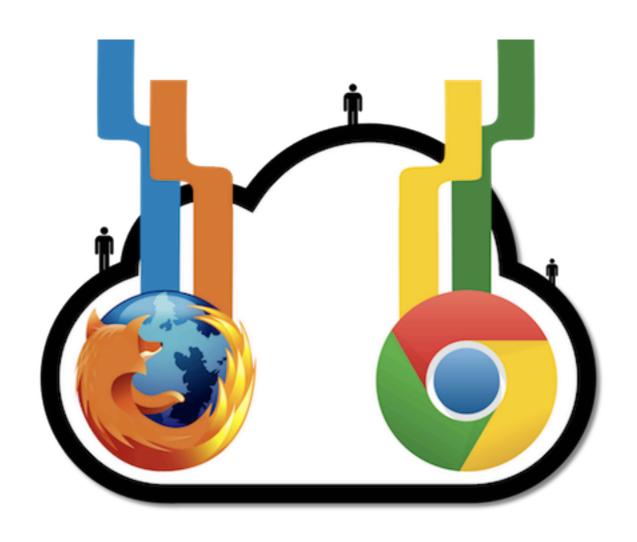
...but also...
SET, XSSF, XSSER, WebSploit



...it is about using the browser for security testing....

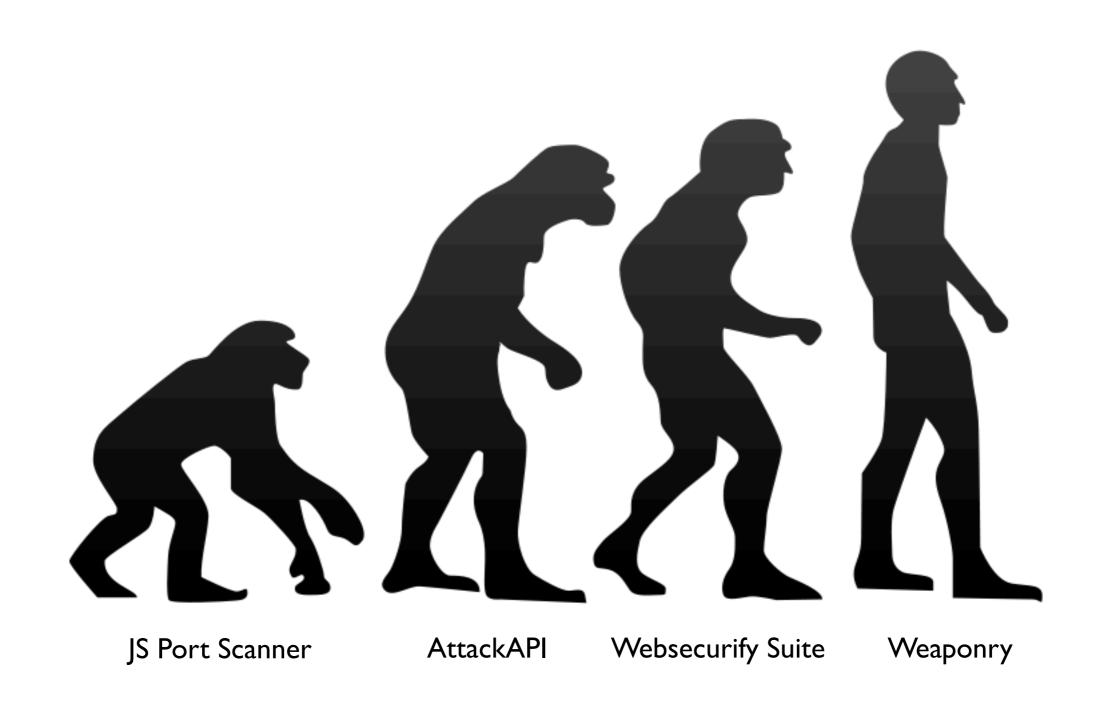


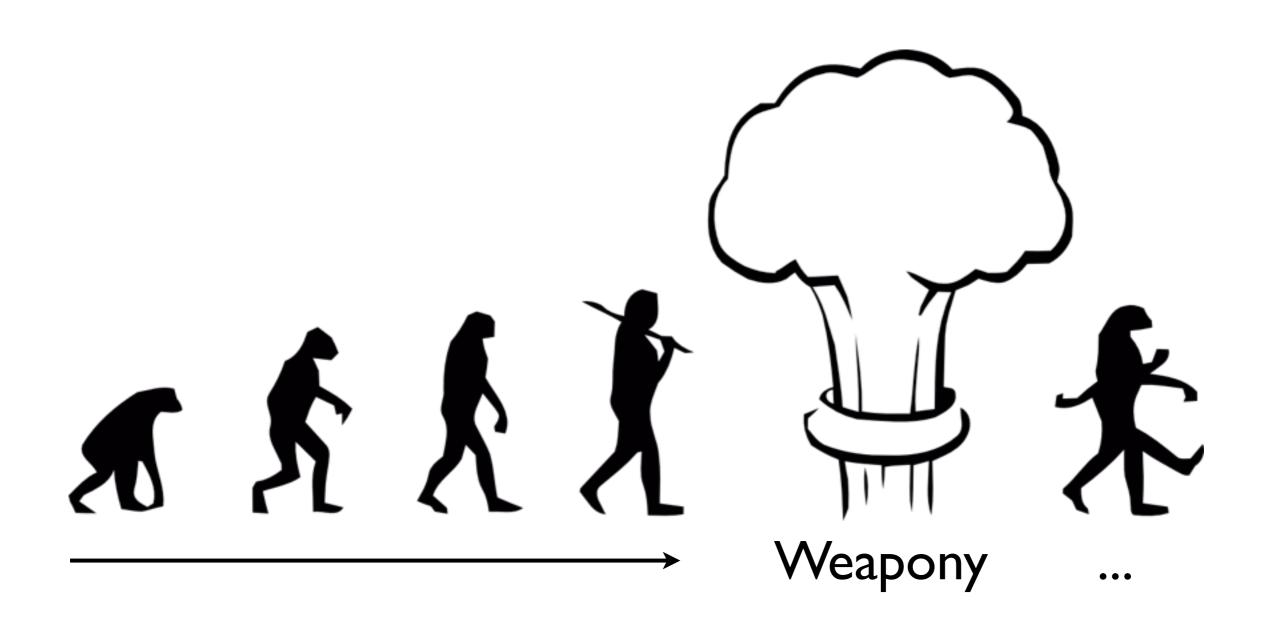
THE WEB IN A BOX



GNUCITIZEN

2009, 2010, 2011, 2012







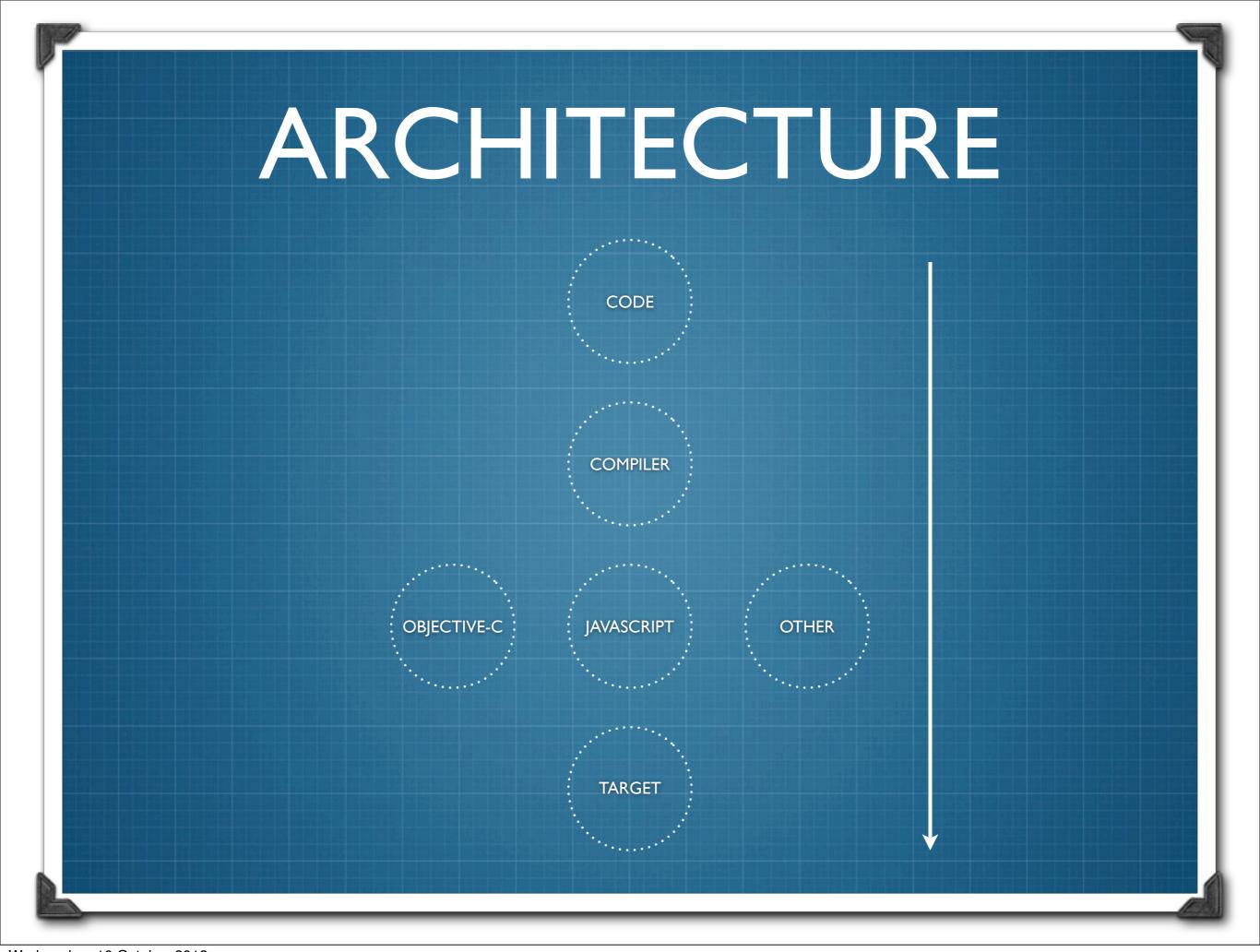
Create a Client-side Security Scanner

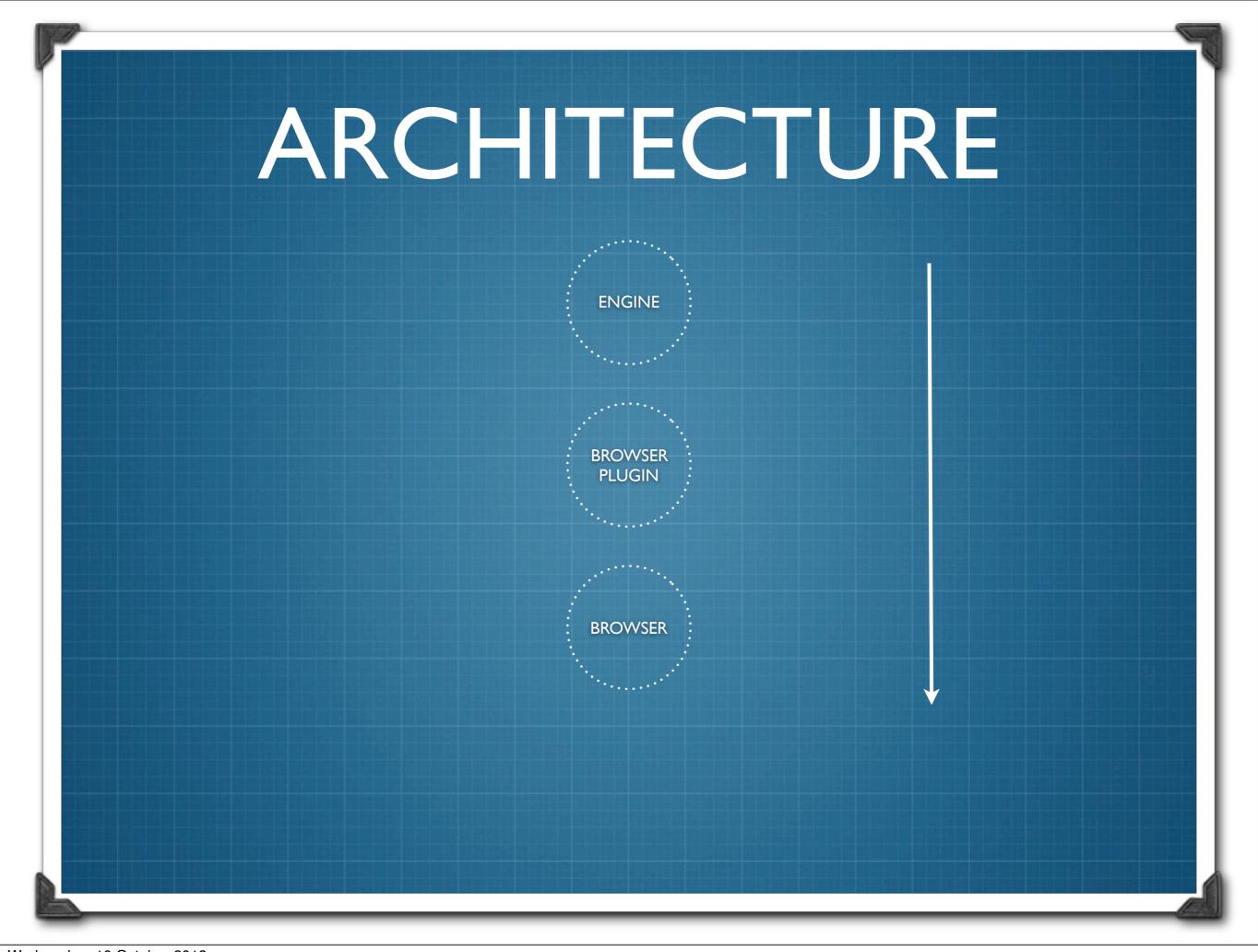


Create Client-side Security Tools



BUT JAVASCRIPT ****S







I BELIEVE IN THIS

So Long, and Thanks for All the Fish

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~LinsenSchuss
Tkgd2007
Anonymous Contributors

Universal Pictures, MGM, etc...

Pentesting In Action

