

Security Awareness

A Hackers Mindset

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From developer to security specialist:

+10 years developer experience

+10 years information security experience

OWASP:

OWASP Netherlands, Chapter Leader

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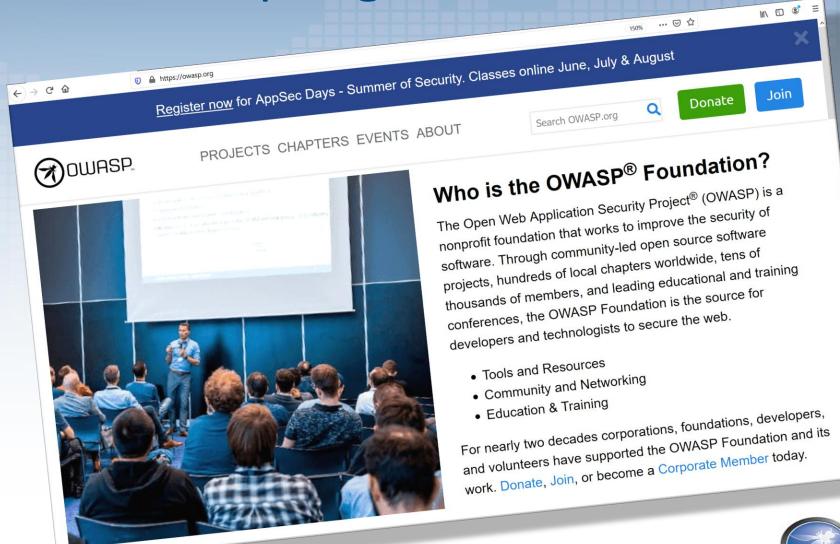
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OWASP Mission

 to make application security "visible," so that people and organizations can make informed decisions about application security risks



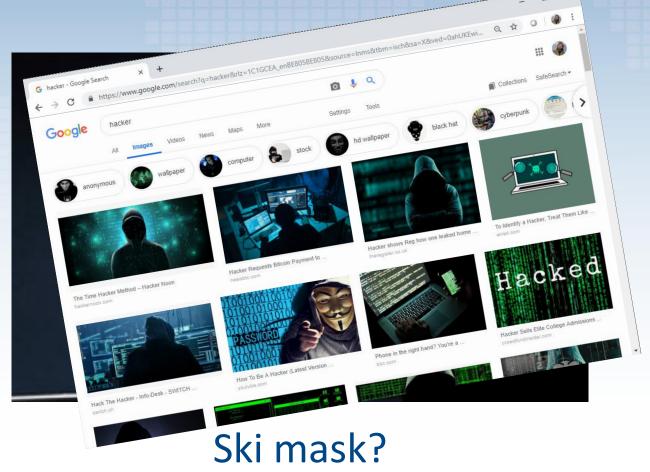


OWASP Top 10 - 2013	→	OWASP Top 10 - 2017
A1 – Injection	→	A1:2017-Injection
A2 – Broken Authentication and Session Management	→	A2:2017-Broken Authentication
A3 - Cross-Site Scripting (XSS)	7	A3:2017-Sensitive Data Exposure
A4 – Insecure Direct Object References [Merged+A7]	U	A4:2017-XML External Entities (XXE) [NEW]
A5 – Security Misconfiguration	7	A5:2017-Broken Access Control [Merged]
A6 – Sensitive Data Exposure	71	A6:2017-Security Misconfiguration
A7 – Missing Function Level Access Contr [Merged+A4]	U	A7:2017-Cross-Site Scripting (XSS)
A8 - Cross-Site Request Forgery (CSRF)	×	A8:2017-Insecure Deserialization [NEW, Community]
A9 – Using Components with Known Vulnerabilities	→	A9:2017-Using Components with Known Vulnerabilities
A10 – Unvalidated Redirects and Forwards	×	A10:2017-Insufficient Logging&Monitoring [NEW,Comm.]





What (not) is a hacker





What (not) is a hacker

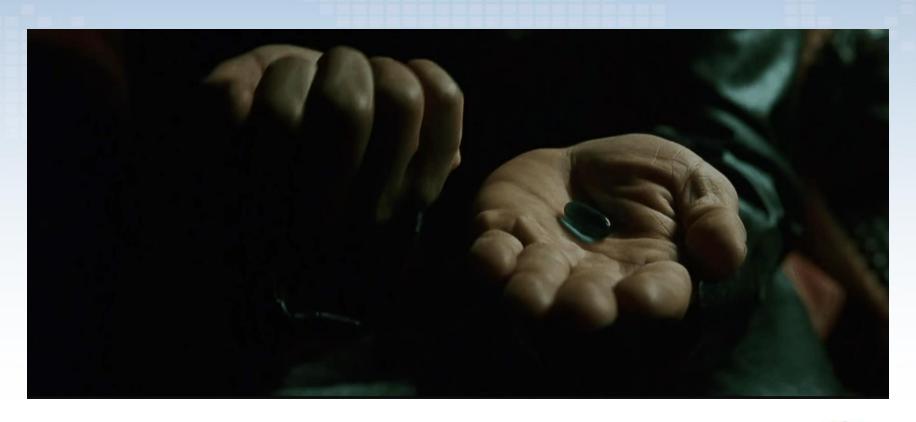


Hoodie? ..only if functional!



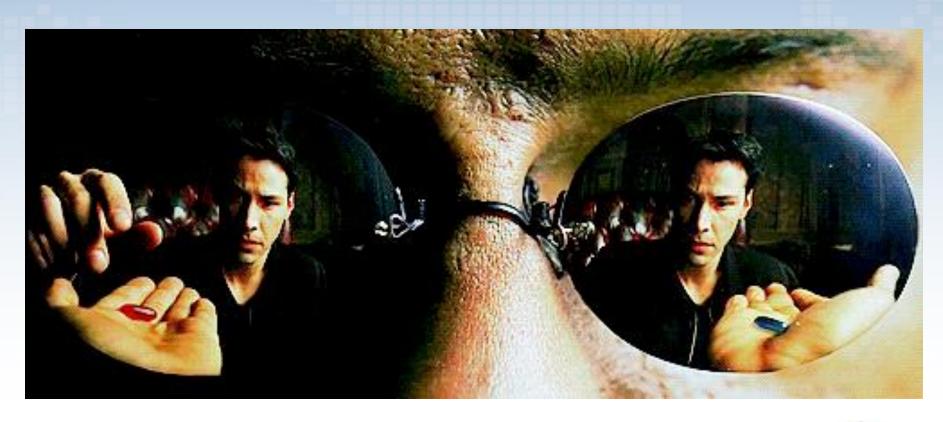
Jeb Application y Project

Disclaimer





Disclaimer





Physics



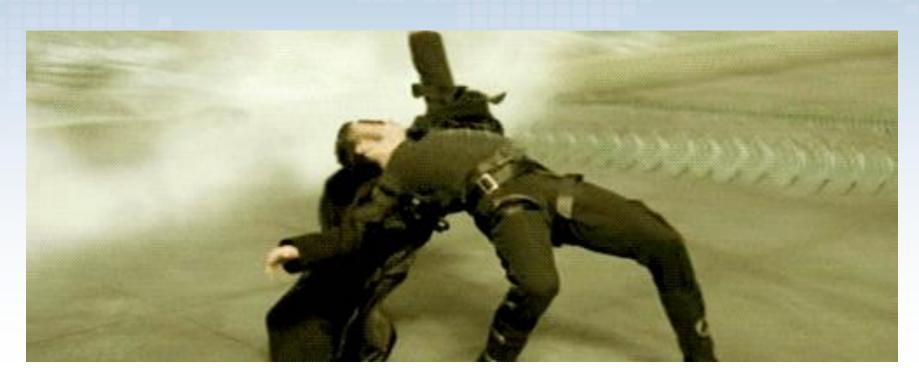


(Defying) Physics?





Bending the reality





Expectation management



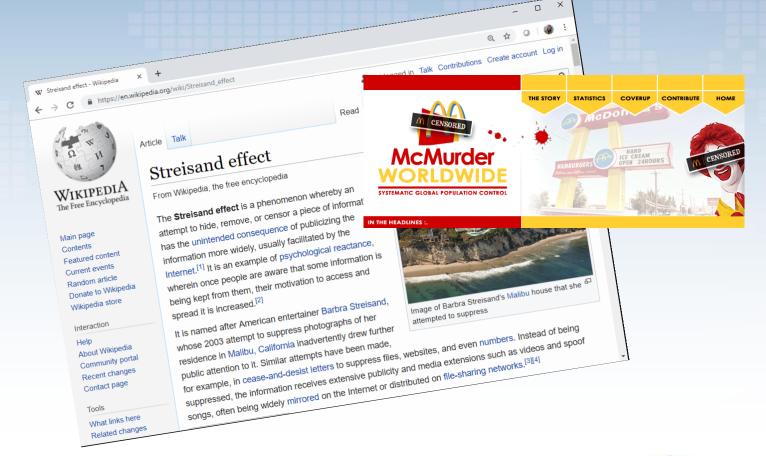


Obvious?





(Barbra) Streisand Effect





Intention?



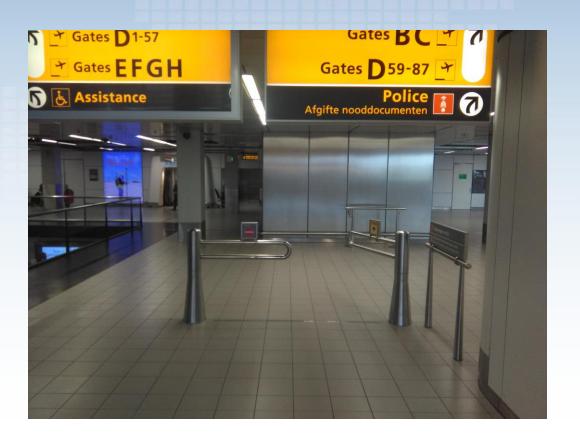


Intention?



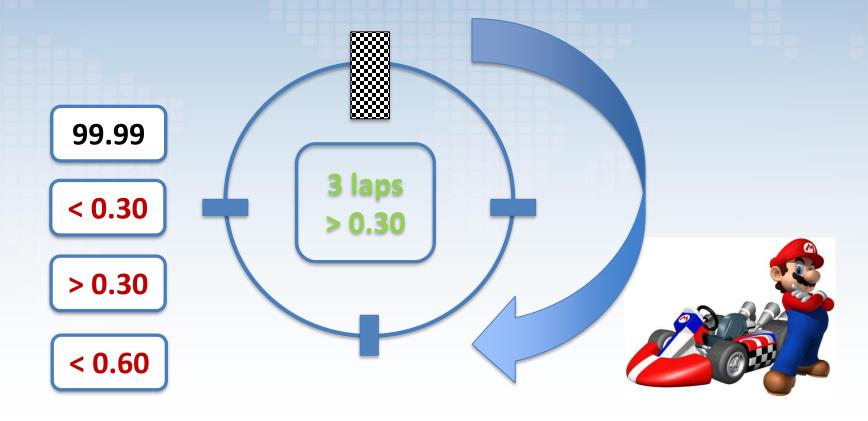


Intuitive





Flaw vs Bug





Reward



The gain, doesn't has to be money!



The victim





Crime scene investigation board





Treasure trail



How to achieve the goal?



The team



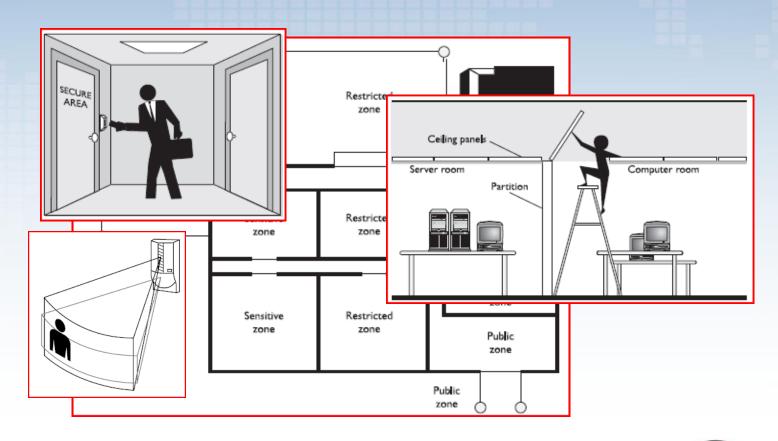


The plan





Imagine a building...

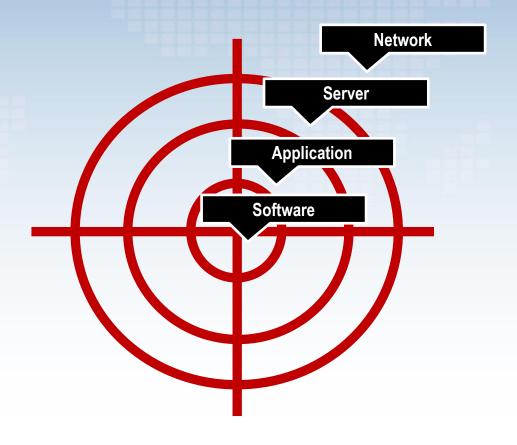




Front door / Back door

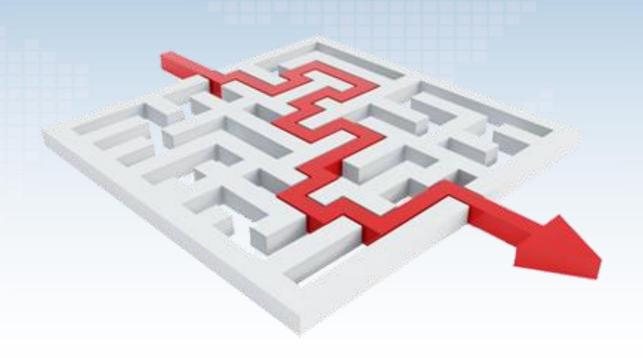


scope = scope +1





Path





Basics





Output handling



What could go wrong





Ever seen this?

Username	
Password	

password forgotten link
Create account



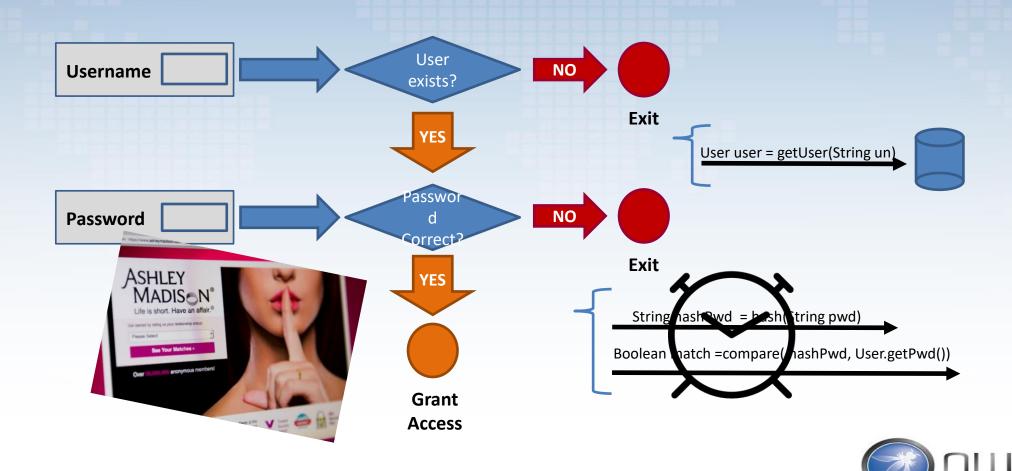
Ever seen this?

Username	
Password	

password forgotten link
Create account



Authentication process



Open Web Application Security Project

Ever seen this?

Username

Password

password forgotten link >

Create account



Security Questions





Ever seen this?

Username

Password

password forgotten link

Create account



Implicit vs explicit binding

From the template

User:

Username

Password

Address

Role



To business object

User:

Username

Password

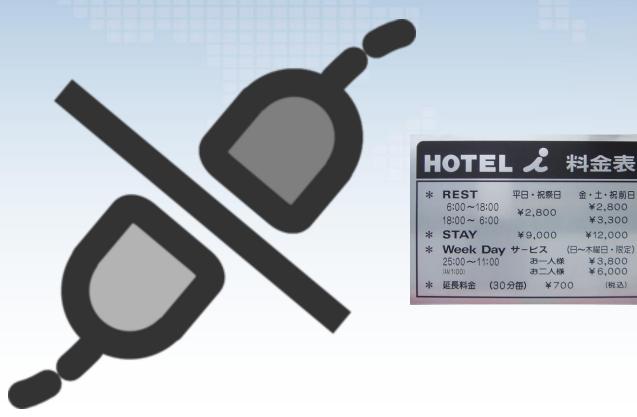
Address

Role



(Dis-) Connection







(税込)

Replay (playback) attack



Identity Theft





Baby-Duck Authentication





Claiming the bounty





Detection

