

#WCVLC22

Prophylactic Programming For Wordpress

WordCamp
València
2022

Gabs García



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Prophylactic Programming



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A futuristic, dark interior with a checkered floor and glowing pink neon lines. The scene is a long, narrow hallway with a floor made of dark, raised rectangular tiles. The walls are dark and textured, with several vertical, glowing pink neon lines running along them. The perspective is from the end of the hallway, looking down its length. The lighting is dramatic, with the pink neon providing the primary light source, casting a soft glow on the floor and walls. The overall atmosphere is mysterious and high-tech.

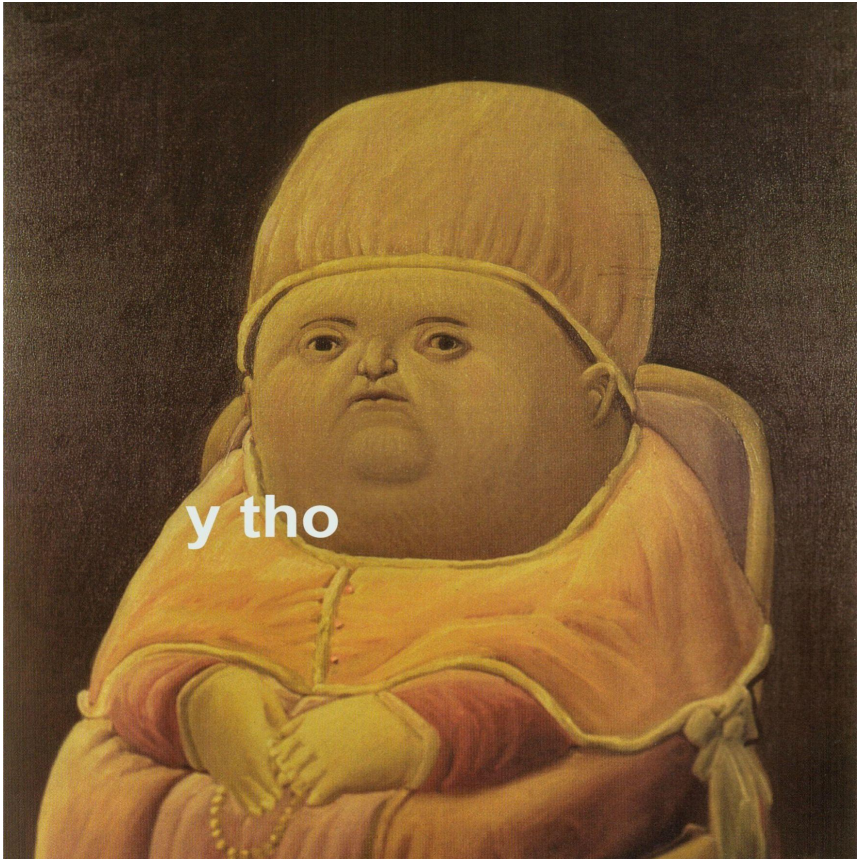
We all love an appealing Design

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FRONT-END



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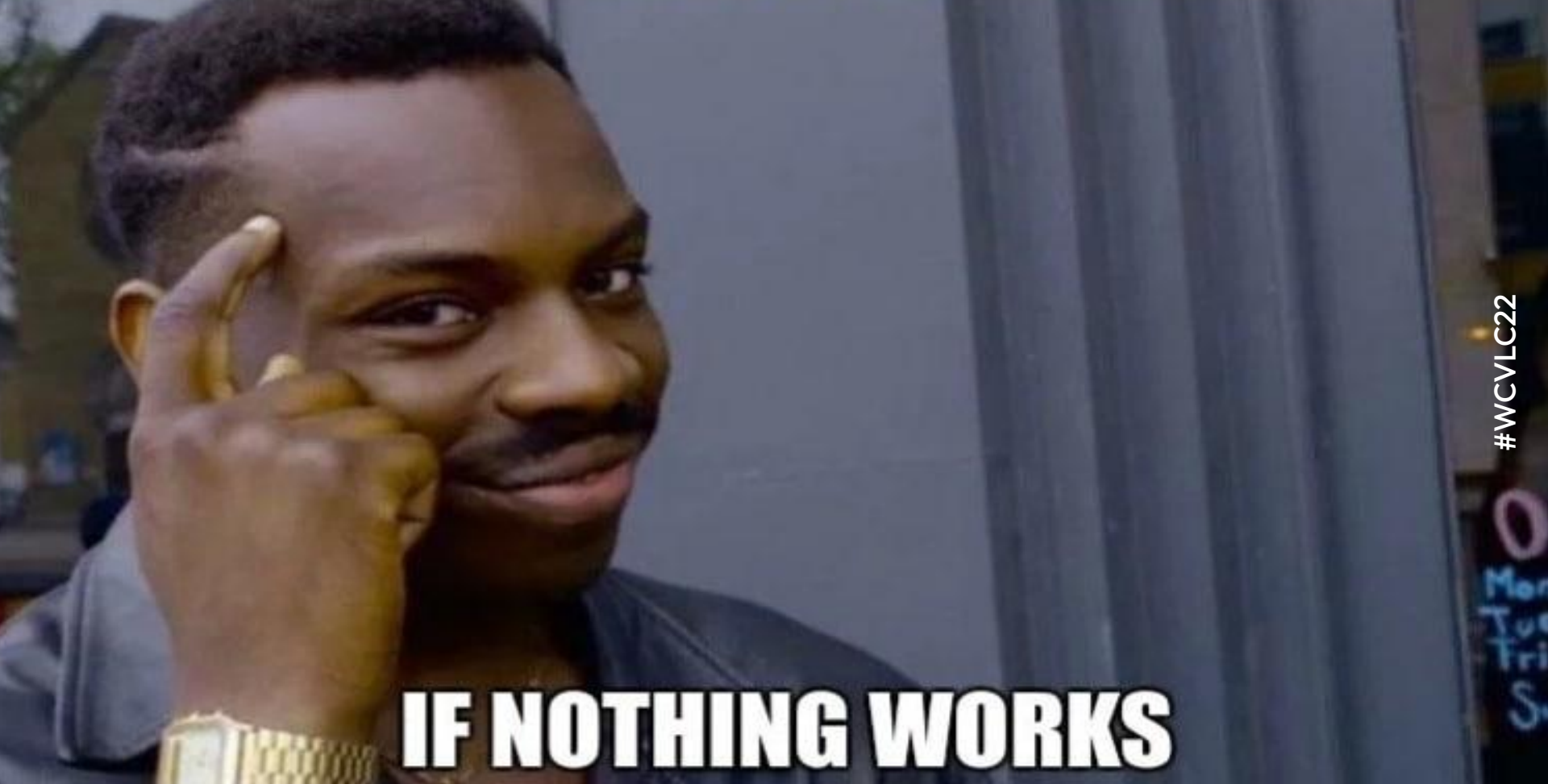
Why?

Very little investment in security

Ex post measures after a big cybersecurity incident

Patch up vulnerabilities vs create robust systems from the beginning

CAN'T HAVE SECURITY VULNERABILITIES



IF NOTHING WORKS

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**SMEs shape
Spain's 98.5% of
the whole
country's Business
Network**



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OWASP TOP 10

- Access control flaws
- Cryptographic flaws
- Injection vulnerabilities
- INSECURE DESIGN
- Incorrect security configuration
- VULNERABLE AND OBSOLETE COMPONENTS
- Identification and authentication flaws
- Software and data integrity failures
- Failures in security logging and monitoring
- Server-side request forgery

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General Security Principles



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GENERAL SECURITY PRINCIPLES

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- Least Privileges
- Simpler is Safer
- Zero Trust
- Expect the Unexpected
- Deep Defense
- Security Through Obscurity
- Whitelists and Blacklists
- Map Vulnerabilities and Data Routes

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Secure Design Principles



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SECURE DESIGN PRINCIPLES

- Establish the context before designing a system
- Make compromise difficult
- Make disruption difficult
- Make compromise detection easier
- Reduce the impact of compromise

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Security By Design

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SECURITY BY DESIGN



Expect Attacks

Avoid Security Through Obscurity

Give the Fewest Privileges

Use any Secure By Design Methodology

Compliance

Mind the Server/client Architectures

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Follow the Best Practices



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BEST PRACTICES



Minimize human and software vulnerabilities
Separate Components
Least Privilege Principle

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Thanks!

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