

What Could It Hurt?

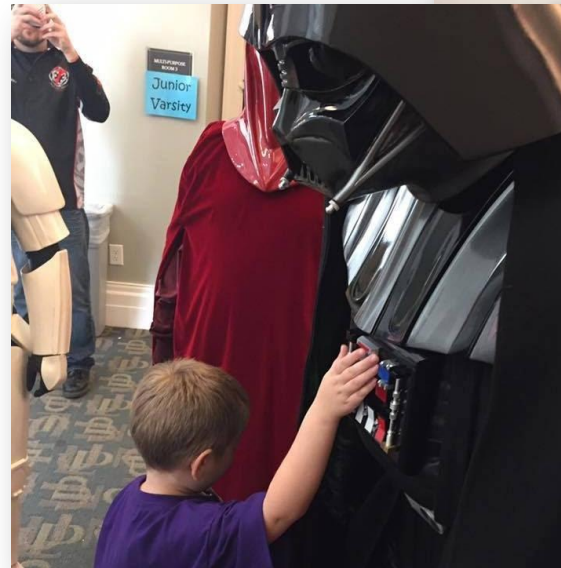
How Framework and Library Dependence is Weakening our Development

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Kevin Johnson

- Founder and CEO of Secure Ideas
- IANS Faculty Member
- Course Author and Instructor
 - Web Application and Mobile Testing
 - PEWAPT 101
 - BlackHat, DerbyCon, OWASP
- Podcaster
 - Professionally Evil Perspective
- Open Source Project Lead
 - SamuraiWTF, Laudanum, Yokoso, WeaponizedFlash, etc.
- 501st Member - TI-42265
- Father, Husband and Christian



Security..... really?

- Important Topic
 - Or so they say
- I am biased
 - It is my job
- Business critical feature
 - Often ignored



2017 Breaches (Sadly a Sample!)



Quick, Good and Cheap.... Pick 2 (Really pick 1)

- Development is seen as easy
 - Microsoft and PluralSight encourage this
- Organizations often don't understand
 - Focus on release cycles
- Security is an afterthought
 - Or a nice-to-have
- Even when Devs want it



Frameworks



Efficiencies

- Development is easier
 - Heavy lifting is done
- Better support across teams
 - Publicly available frameworks
- Much of the security needs are handled
 - SQLi prevention
 - CSRF tokens
 - XSS encodings
 - Open Redirect validations



Security Fails

- Django
 - XSS
 - Open Redirects
 - HardCoded Password (2016)
- Struts
 - Deserialization Flaw
 - Command Execution
 - CSRF
- Ruby-on-Rails
 - SQLi (Sorta... ActiveRecord Injection)
- JQuery
 - Lots!
 - Migrate library reintroduces flaws!



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