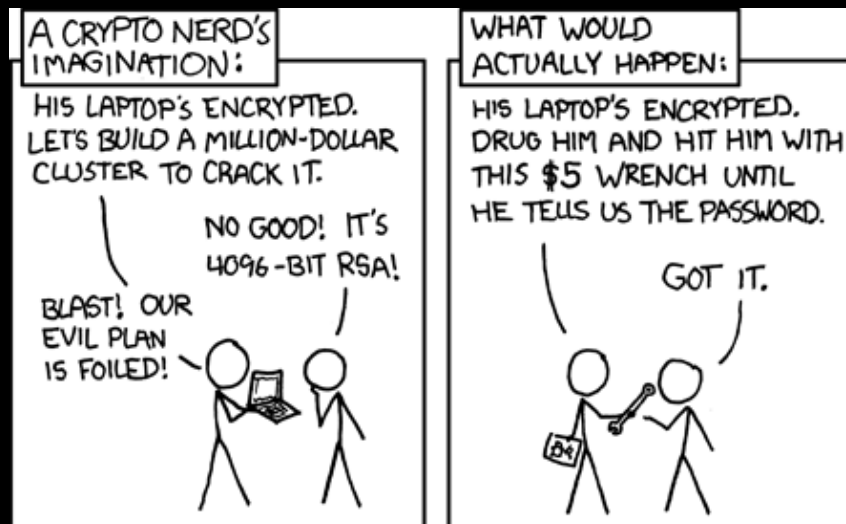


# HCS Boot Camp: Week 5

## Preventing Security Compromises



# XSS Attacks

- “Cross-Site Scripting Attacks.”
- Non-Persistent (data provided in requests is not sanitized, hence, client-side script can be injected).
- Persistent (the server saves the data provided, and then displays it on every page).



# SQL Injection

- When input is not sanitized, and the input is used to execute queries directly, you can “inject” SQL into the input.

- For instance

```
"SELECT * from users where username='$_GET[\n\nuname\"]' "
```

- What happens when:

```
$_GET [ 'uname' ] = " ' ; DROP TABLE users ; "
```





# SQL Injection

# CSRF

- You are “authenticated” (via some SESSION, or a cookie) on some site.
- A Cross-Site Request Forgery is a request to the aforementioned site from a different site.
- Per the example for CSRF from Wikipedia:  

```

```



# General Principles

- Update software.
- Monitor.
- *Don't ever trust the user, or their browser/agent.*



# General Principles

- Any data that is acquired from the user *should* be sanitized.
- Don't write your own crypto.
- In general, use libraries.
- Use frameworks to avoid XSS and CSRF attacks.



# Now go do this yourself!

```
git clone git://github.com/abrody/blag.git
```

