



The Abridged History of Application Security



MANICODE

SECURE CODING EDUCATION

extremely

The Abridged History of Application Security

Things are Getting a Lot Better



Jim Manico

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 @manicode

- Former OWASP Global Board Member
- Project manager of the OWASP Cheat Sheet Series and several other OWASP projects
- 20+ years of software development experience
- Author of "Iron-Clad Java, Building Secure Web Applications" from McGraw-Hill/Oracle-Press
- Investor/advisor for KSOC, Nucleus Security, Signal Sciences, Secure Circle and BitDiscovery
- Based on Kauai, Aldie VA and Hotels worldwide



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- Former [REDACTED]
- Project manager of the OWASP [REDACTED]
OWASP projects



InfoSec Dark Ages

October 1967 Task Force

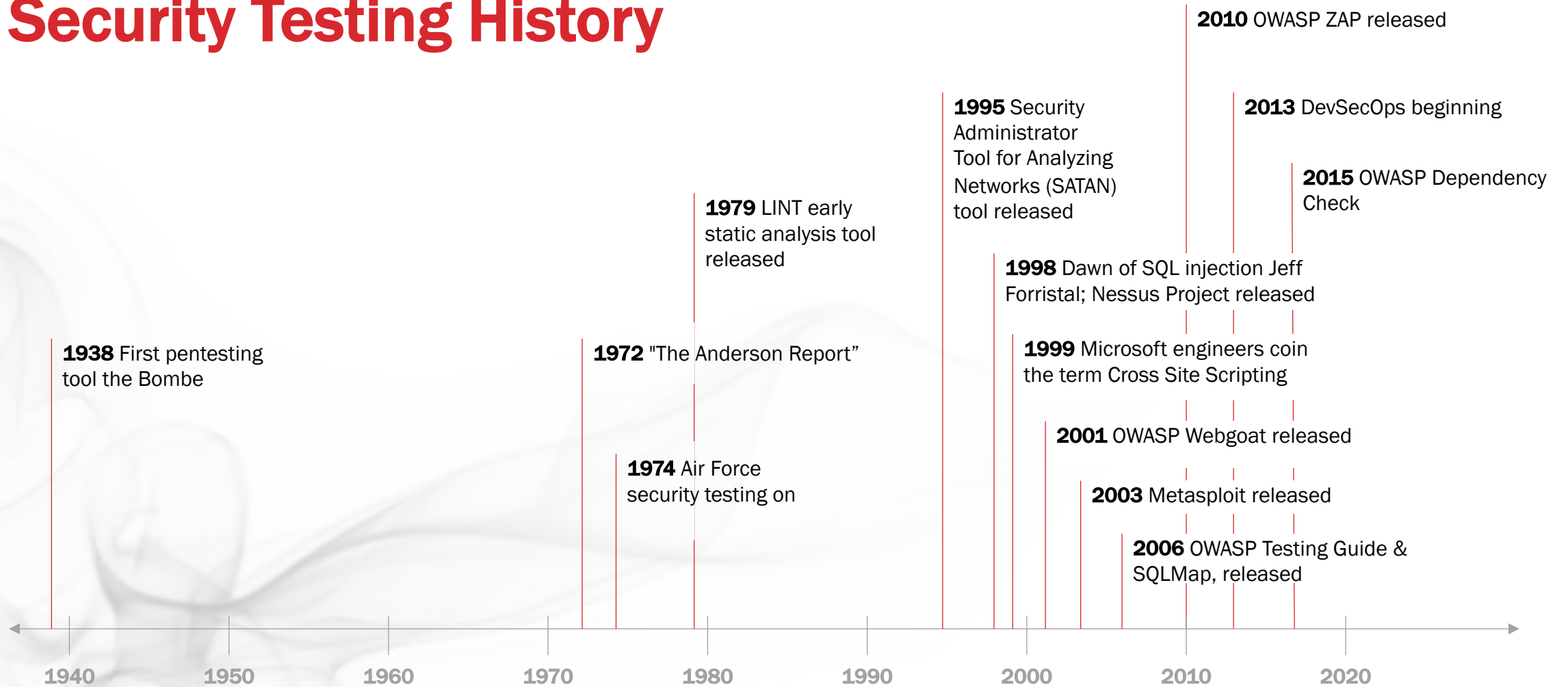
February 1970 R-609 Published

October 1975 R-609 Declassified



IS MESSED UP!

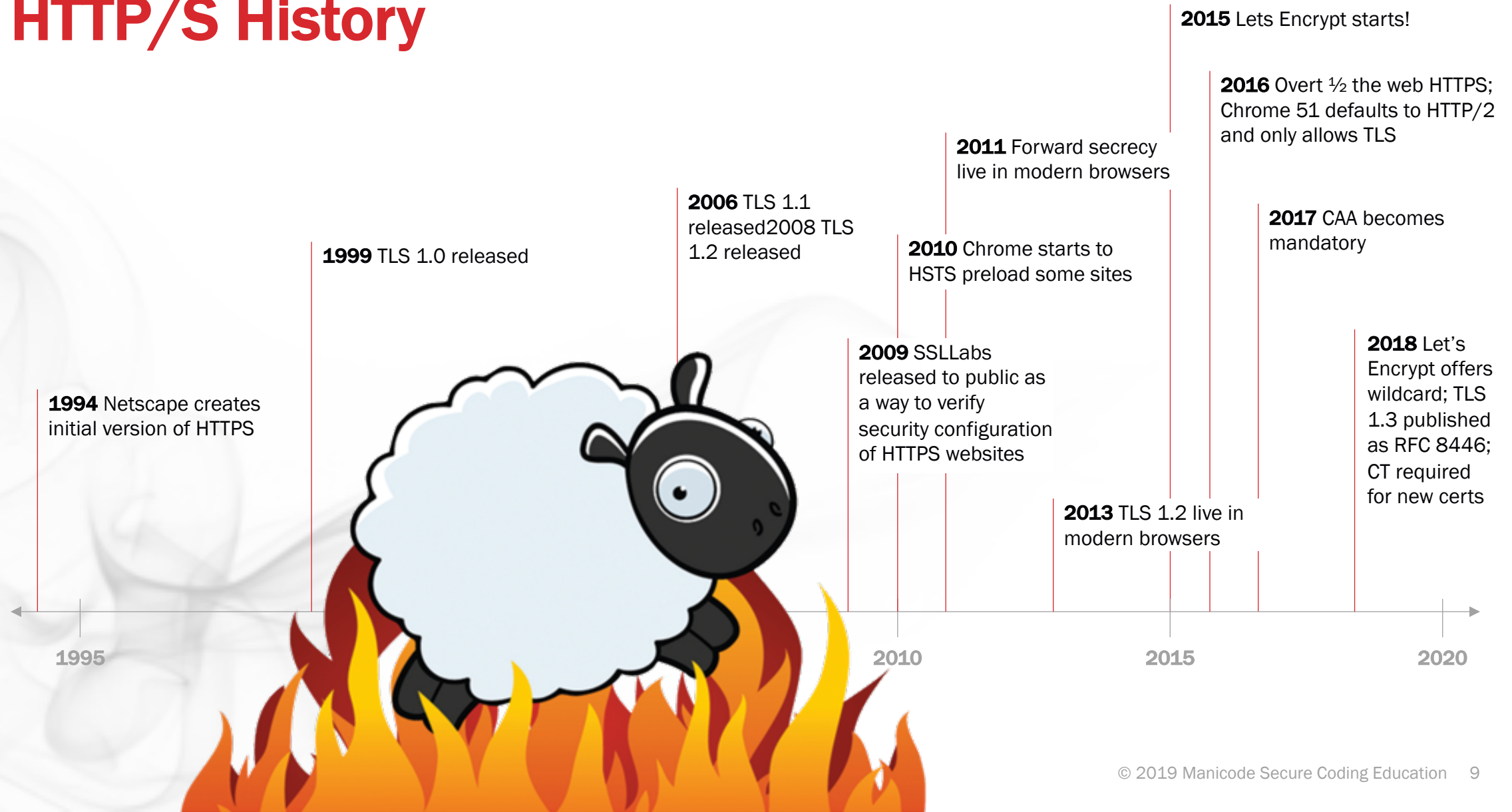
Security Testing History



2020

- Security Testing Integrated Into GitHub
- SAST, DAST, 3rd Party Scanning and IAST
- Pentesting Still Expensive (not enough professionals out there)
- Compliance is a growing security testing driver

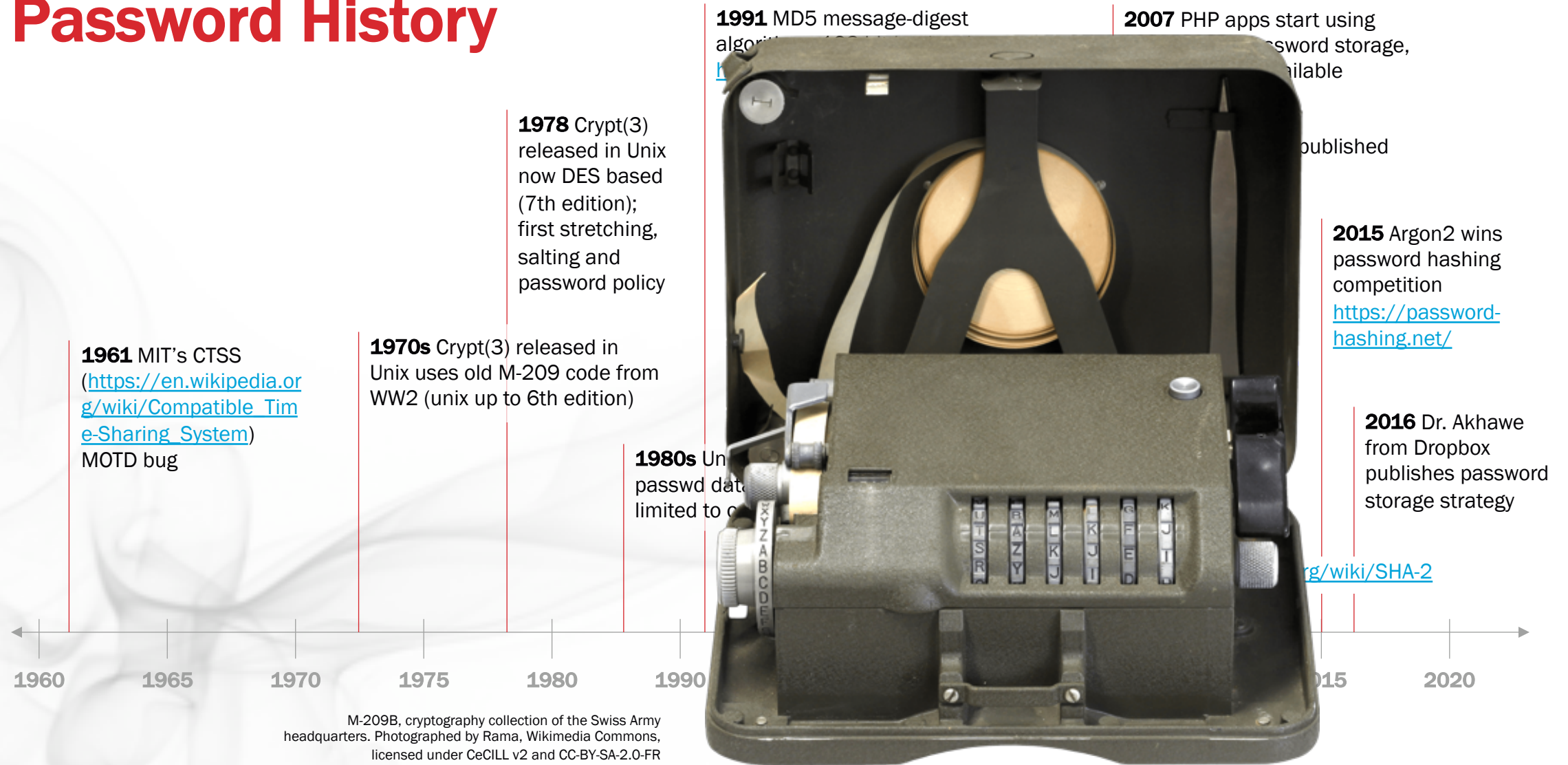
HTTP/S History



2020

- <https://transparencyreport.google.com/https/overview>
- 90% or more of the web is HTTP/S

Password History



How Dropbox securely stores your passwords

Devdatta Akhawe | September 21, 2016

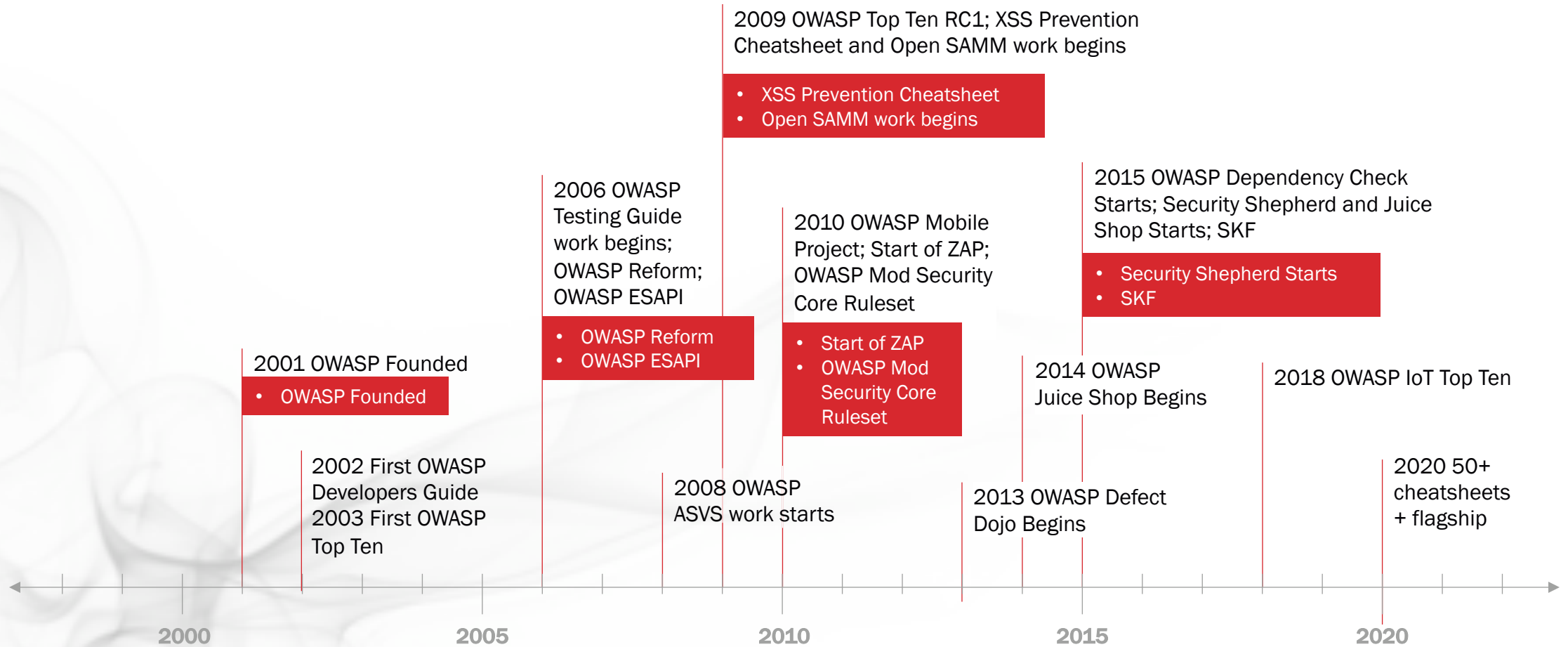


It's universally acknowledged that it's a bad idea to store plain-text passwords. If a [database containing plain-text passwords](#) is compromised, user accounts are in immediate danger. For this reason, as early as 1976, the industry standardized on storing passwords using secure, one-way hashing mechanisms (starting with Unix Crypt). Unfortunately, while this prevents the direct reading of passwords in case of a compromise, all hashing mechanisms necessarily allow attackers to brute force the hash offline, by going through lists of possible passwords, hashing them, and comparing the result. In this context, secure hashing functions like SHA have a critical flaw for password hashing: they are designed to be fast. A modern commodity CPU can generate millions of SHA256 hashes per second. Specialized GPU

2020

- Argon2 supported everywhere

OWASP Project History



Flagship Projects

OWASP FLAGSHIP

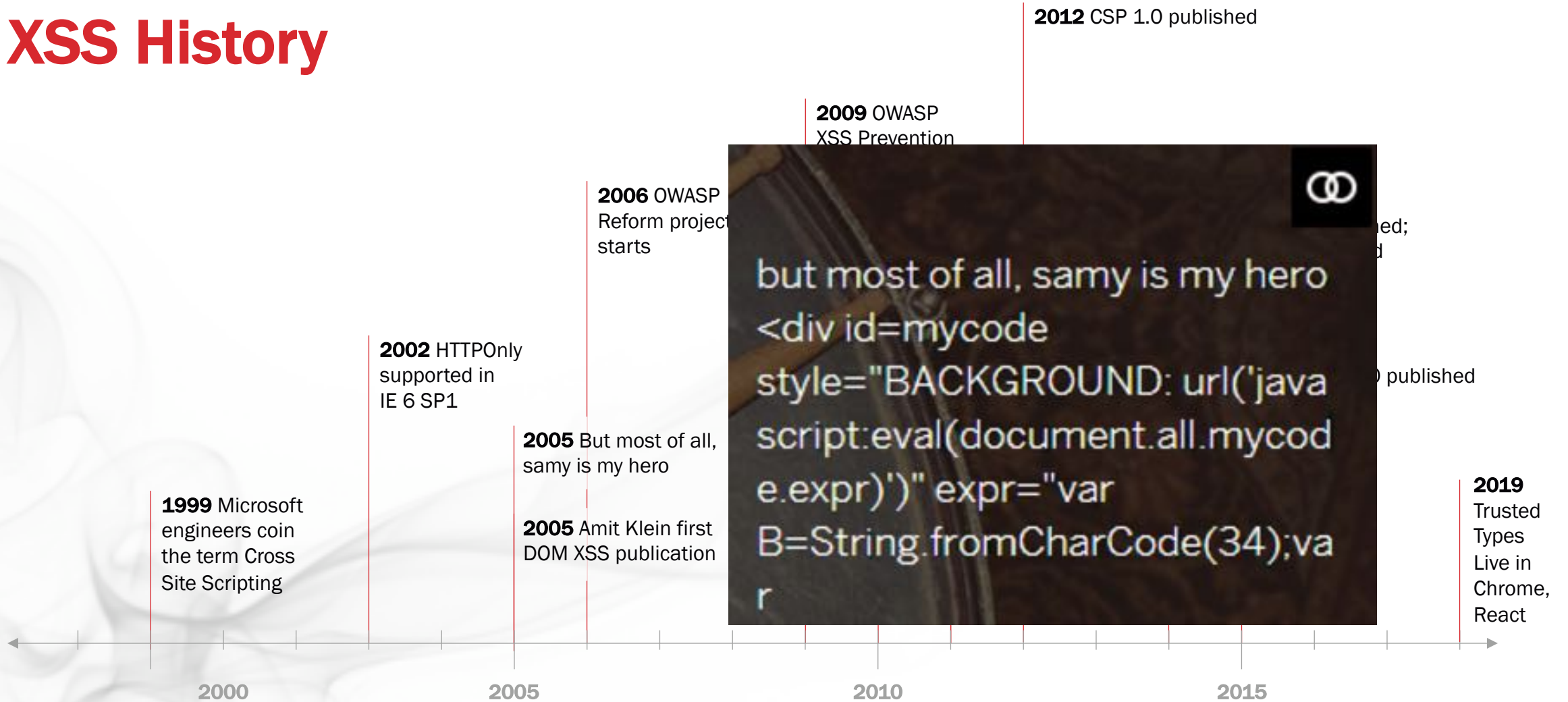
mature projects

The OWASP Flagship designation is given to projects that have demonstrated strategic value to OWASP and application security as a whole. After a major review process [More info here](#) the following projects are considered to be flagship candidate projects. These project have been evaluated more deeply to confirm their flagship status:

Tools

- OWASP Zed Attack Proxy
- OWASP Web Testing Environment Project
- OWASP OWTF
- OWASP Dependency Check
- OWASP Security Shepherd
- OWASP DefectDojo Project
- OWASP Juice Shop Project

XSS History



Trusted Types help prevent Cross-Site Scripting



TL;DR

We've created a new experimental API that aims to prevent DOM-Based Cross Site Scripting in modern web applications.



By [Krzysztof Kotowicz](#)

Software Engineer in the Information Security Engineering team at Google

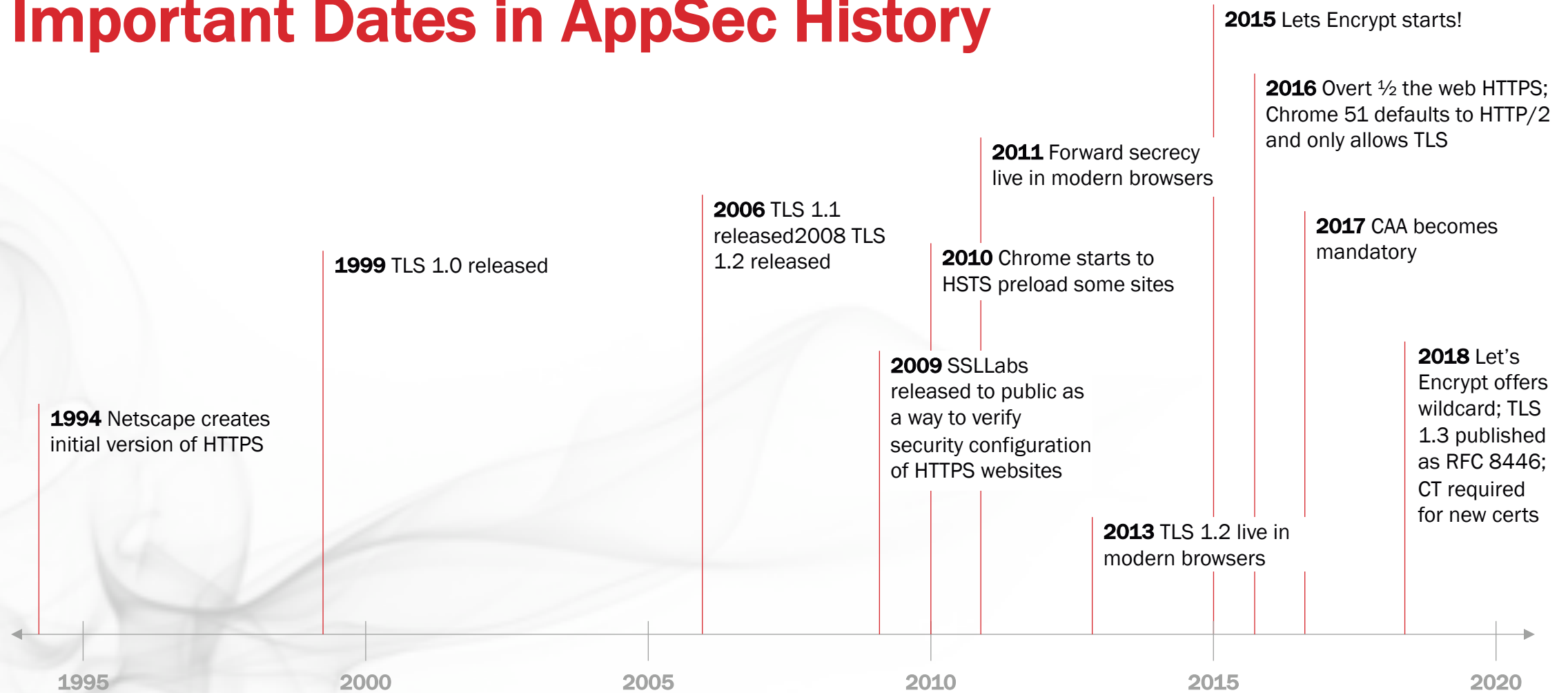


We're currently working on the specification and implementation details for this API. We'll keep this post updated

2020

- AutoEscaping templates the norm
- CSP with strict-dynamic is easier to deploy
- Trusted Types is making its way into frameworks

Important Dates in AppSec History



2020

- February 21, 2020 OWASP New Zealand Day

AppSec is Global 260+ OWASP Chapters Worldwide



AMA-AA

(Ask Me Anything About AppSec)



Thank you to *YOU...*
for helping the world be more secure.

Have a great OWASP NZ CONFERENCE!