SaTC: CORE: Small: Understanding, Analyzing, and Improving Password Authentication Practices across the Web

Georgia Tech

Challenge:

- Passwords remain the dominant method for online authentication, yet we lack a broad understanding of the password authentication practices of real-world websites, and why insecure practices manifest

Solution:

- Automated methods for measuring website password practices at scale
- User studies with web administrators
- Socio-technical techniques for improving website password practices
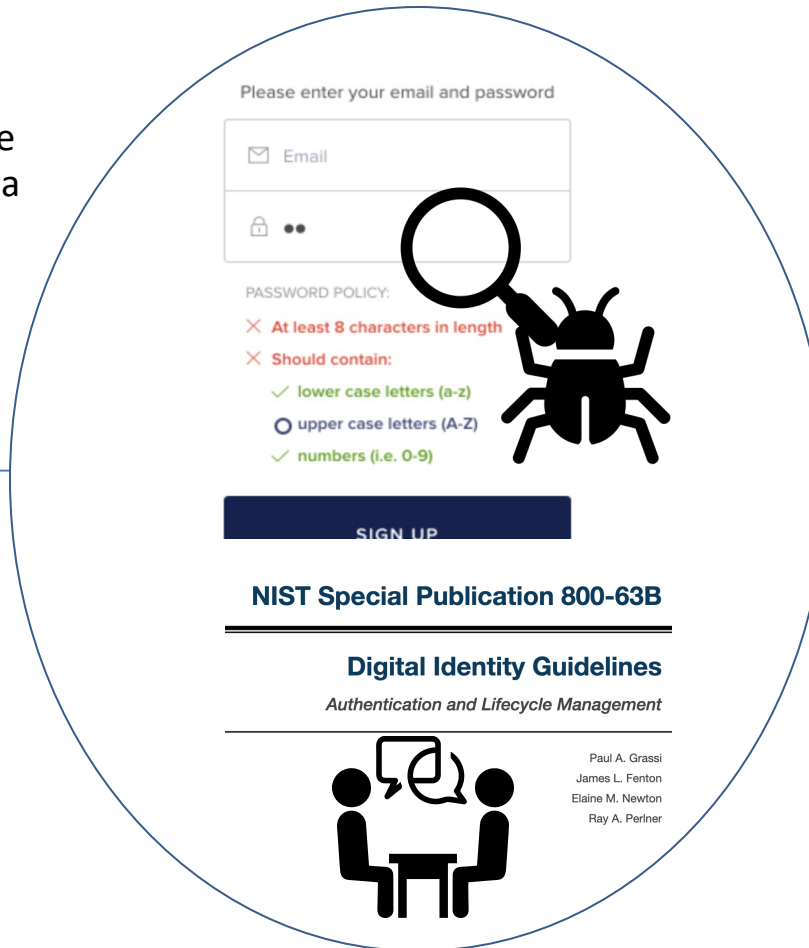
Scientific Impact:

- Empirical grounding to our understanding of real-world password authentication across the web
- Development of tools and techniques for helping web administrators better manage password authentication

Broader Impact and Broader Participation:

- More secure and usable password practices employed by websites
- Updates to password guidelines and standards
- Education and outreach to web administrators