#### CSci 5271 Introduction to Computer Security Web security, part 2

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## Outline

More cross-site risks

Announcements intermission

Confidentiality and privacy

Even more web risks





Browsers determine file type from headers, extension, and content-based guessing

Latter two for ~ 1% server errors

- Many sites host "untrusted" images and media
- Inconsistencies in guessing lead to a kind of XSS

E.g., "chimera" PNG-HTML document







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### Note to early readers

This is the section of the slides most likely to change in the final version

If class has already happened, make sure you have the latest slides for announcements

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# Site perspective

Protect confidentiality of authenticators
Passwords, session cookies, CSRF tokens

- Duty to protect some customer info
  - Personally identifying info ("identity theft")
  - Credit-card info (Payment Card Industry Data Security Standards)
  - Health care (HIPAA), education (FERPA)
  - Whatever customers reasonably expect

## You need to use SSL

- Finally coming around to view that more sites need to support HTTPS
   Special thanks to WiFi, NSA
- If you take credit cards (of course)
- If you ask users to log in
  - Must be protecting something, right?
    Also important for users of Tor et al.



















