Week 2 - XXE

Introduction to Offensive Security

XXE?

- XML eXternal Entity (attacks)
- Turns out XML is really *really* overcomplex...
 - XSLT (Extensible Stylesheet Language Transformations) is Turing complete
 - Others have written formal programming languages based on XML

XML 101

- Tree of tags
- Tags have attributes, and inner data/children

XML Entities

- Essentially placeholders
 - Commonly see & amp; > < in HTML
 - "Replaced" with &, >, <
- Defined with

```
<!ENTITY name value>inside of a <!DOCTYPE [...]>
```

XML Entities

 Somebody had the wonderful idea to let you include other files in entities...

```
<!ENTITY foo SYSTEM "file://file.txt">
&foo;
```

XML Entities

• That's about all you'll ever need to know

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