9 — Web API Design

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Lecture 9

- Introduction
- REST
- Data formats
- Security
- Maintenance
- Documentation
- Resources

Application Programming Interface

"a set of functions and procedures that allow the creation of applications which access the features or data of an operating system, application, or other service."

Oxford English Dictionary

"An interface or go-between that enables a software program to interact with other software." — Investopedia

Types of API

- Programming language libraries, e.g. C
 - -malloc(), printf(), strcpy()
- Operating systems, e.g. Android
 - findViewById(R.id.search).setText("");
- Plug-in APIs, e.g. NPAPI for browsers
 - NPError NP_Initialize (...)
- Web APIs, e.g. Yahoo! BOSS
 - http://yboss.yahooapis.com/ysearch/web?q=API

Web APIs

- Same infrastructure as websites
 - Request—Response over HTTP
 - Open and exposed to the world
- Textual request/response
 - URLs in, JSON/XML out (generally)
- Many simply wrap web requests...
 - e.g. search APIs, Twitter posting
- ...but many go far beyond

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