Good Design

Modern Interfaces

API

- Enterprises exchanging electronic documents
- Formalize documents -> XML
- Web Services
- Exposing core business functions

Large Systems

- Integration
- Client/Server

Good Software Design

- low coupling
- high cohesion

OOD

- encapsulation
- interfaces

Database design

- functional dependency
- normalization

Good API design

- Define a good Domain model
- Abstract core functions
- From DB: CRUD
- From OO: interfaces

HTTP

- Transfer objects between systems
- Reliable
- bi-directional
- in-order byte stream

GET twitter.com		200 OK	twitte	er.com	29.3 KB	199.59.148.10:443		1.02
▶ POST jot		200 OK	twitte	er.com	0 B	199.59.148.10:443		203n
► GET resolve.jsor	?urls%5B	200 OK	twitte	er.com	475 B	199.59.148.10:443		
GETutm.gif?u	tmwv=5.3	200 OK	ssl.go	oogle-analytics.com	35 B	74.125.226.62:443		
Params Head	ers Respo	nse Ca	iche					
Response Header	s		vic	ew source				
Content E Last-M	expires Weed odified Weed Pragma no- Server GFI (-Spdy 3	n, 17 De d, 19 Ap d, 21 Ja -cache E/2.0	ec 2012 14:59:13 or 2000 11:43:00 in 2004 19:51:30	GMT				
Accept-Encoding Accept-Language Connection Host Referer	gzip, de en-US,en keep-ali ssl.goog https://	flate ;q=0.5 ve le-analy twitter.	.com/		:17.0) G	ecko/20100101 Fir	efox/17.0	

Inspect

REST

С	post
R	get
U	put
D	delete

Best Practices

- think about "resources"
- elements & collections
- map out the 4 methods for each
- Prefer Nouns, Plural, Concrete
- Use Parameters for more advanced queries