



REST & APIS

Code 301

REST

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“How I Explained REST
to My Brother...”

[-https://gist.github.com/brookr/5977550](https://gist.github.com/brookr/5977550)

REST CONCEPTS

- REST:
 - Representational State Transfer
- HTTP:
 - Like GPS for knowledge; applying VERB to NOUN.
- URL:
 - Points to the representation of a resource
- Web page:
 - representation of some info in HTML

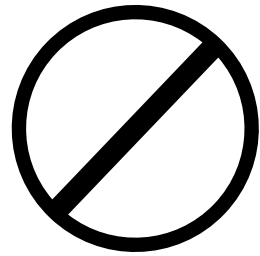


REST CONCEPTS

- REST Verbs
 - Act on a “noun” resource (hint: your Models!)
 - GET: Fetch a resource (usually to display it)
 - POST: Send info about a new resource
 - PUT: Send info about changing a resource
 - DELETE: Remove a resource, duh.



XML-RPC/SOAP



➤ Same method, varying endpoints:

- GET /getComment
- GET /getComments
- GET /addComment
- GET /editComment
- GET /deleteComment

RESTFUL ROUTES

➤ HTTP method + resource:

- GET /comments/:id
- GET /comments
- POST /comments
- PUT /comments/:id
- DELETE /comments/:id
- *Resource Oriented Architecture*
- Methods address the same web-based **resource**

RESTFUL ROUTES

- Each “endpoint” is a route, made of noun and verb.
- HTTP is **stateless**
 - Requests do not have “memory”
 - No individual request may be assumed to know anything about any other request.
 - All the required information representing the possible actions to take should be present in every **response**.
 - Hypermedia: “Here’s the thing you asked for, here’s what you can do next”

APP STATE AND TRANSITION

- GET:
 - asks for the current state
- POST/PATCH/PUT/DELETE:
 - changes the state

