Introduction to RESTful Web Services David Neal

REST Easy

What is REST?

- Representational State Transfer
- Not a Standard
- Architectural Style
- Set of Principles or Design Pattern

Why REST?

- Everybody's Doing It!
- WDNNSA
 - We Don't Need No Stinkin' Abstractions
- Simplicity
- Leverages Web Fundamentals

Evolved RESTful Principles

- URL / URI
 - Subjective
 - Simplicity
 - Nouns over verbs
 - "Hackable"
- HTTP Verbs
 - GET, POST, PUT, DELETE, HEAD, OPTIONS

REST Examples

- GET /orders
- GET /orders/45
- GET /customers/32/orders
- GET /customers/32/orders/15
- POST /orders
- PUT /orders/45
- DELETE /orders/45

Evolved RESTful Principles

- Status
 - 200 OK
 - 201 Created
 - 202 Accepted
 - 401 Unauthorized
 - 404 Not Found
- Metadata
- Representations
- Hypertext/Hypermedia

.NET REST Clients

- System.Net.WebRequest
- Hammock
- RestSharp

Awesome REST Client Demo

Creating RESTful APIs

- MVC
- WCF Web API (currently Preview 4)
- OpenRasta
- Node.js

Even More Awesomer REST Server Demo

Resources

- Google + Nuget
- O'Reilly "RESTful Web Services" and "RESTful Web Services Cookbook"
- http://restpatterns.org
- "Build Truly RESTful API and website using same ASP.NET MVC code" on
 - http://codeproject.com
- https://dev.twitter.com/docs
- http://wcf.codeplex.com/
- Roy Fielding's Dissertation

Thank You!

Email: david@reverentgeek.com

Twitter: @reverentgeek

Blog: http://reverentgeek.com/

(coming soon... er... someday)

Source Code

https://github.com/reverentgeek/RestSamples