

USING ODATA TO CREATE YOUR WEB-API

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SOFTWARE DEVELOPMENT

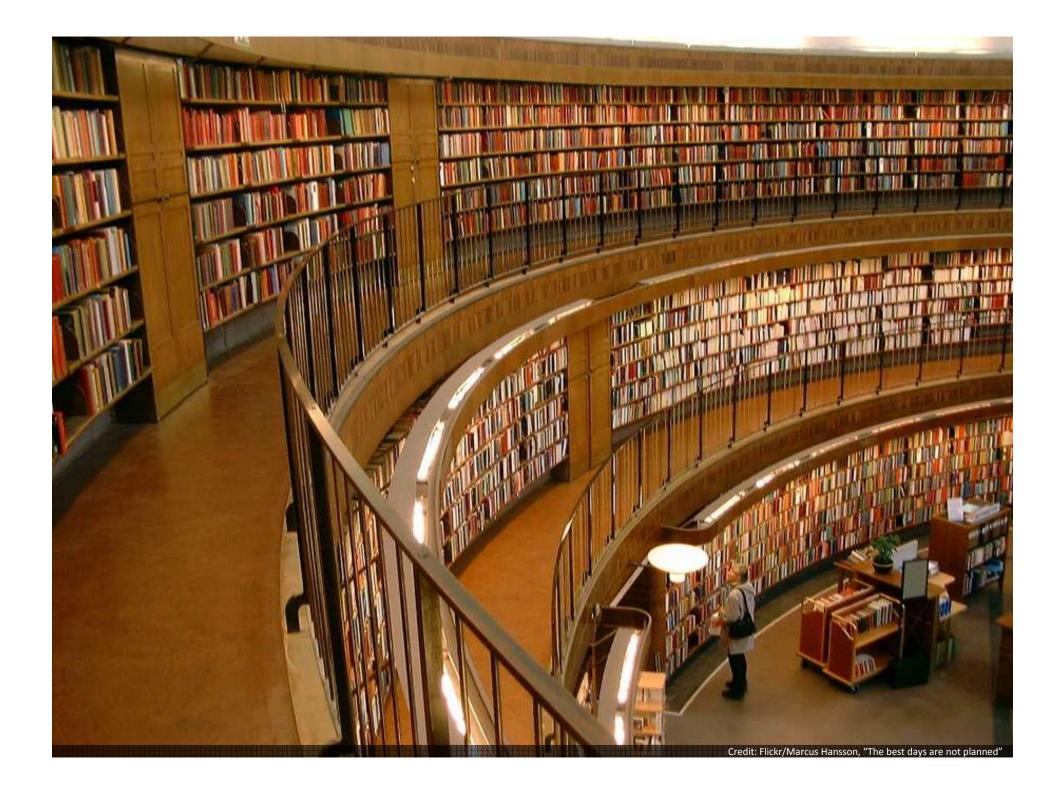
CONFERENCE



✓ HTTP Reach (devices and platforms) What is OData? Metadata Formats (ATOM & JSON) Semantics(GET/PUT/POST/DELETE) **Uri Conventions Query Language** GET ~/Sustomers(6) POSTOKCustomers DELETEAT (Mstomers(5) GET "/Customets 9 / Octivate eq 'Aarhus' **ODATA** Service **HTTP**

OData...

- Builds upon
 - Standard HTTP verbs
 - Standard HTTP status codes
 - Standard HTTP headers
 - Standard Formats
 - Standard Interactions
- Adds
 - Flexible Query
 - Metadata







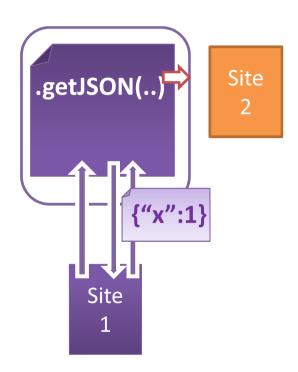
Why OData?

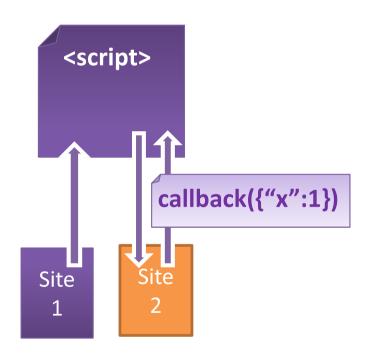
- Modeling
 - Triples vs Types vs Rows vs Blobs
- Formats
 - Json or Atom
- Platforms
 - iOS or Android or .NET or Javascript or PHP...
- Momentum
 - Excel
 - SharePoint
 - SAP

Demo

Intro and Best Practices

What is JSONP?

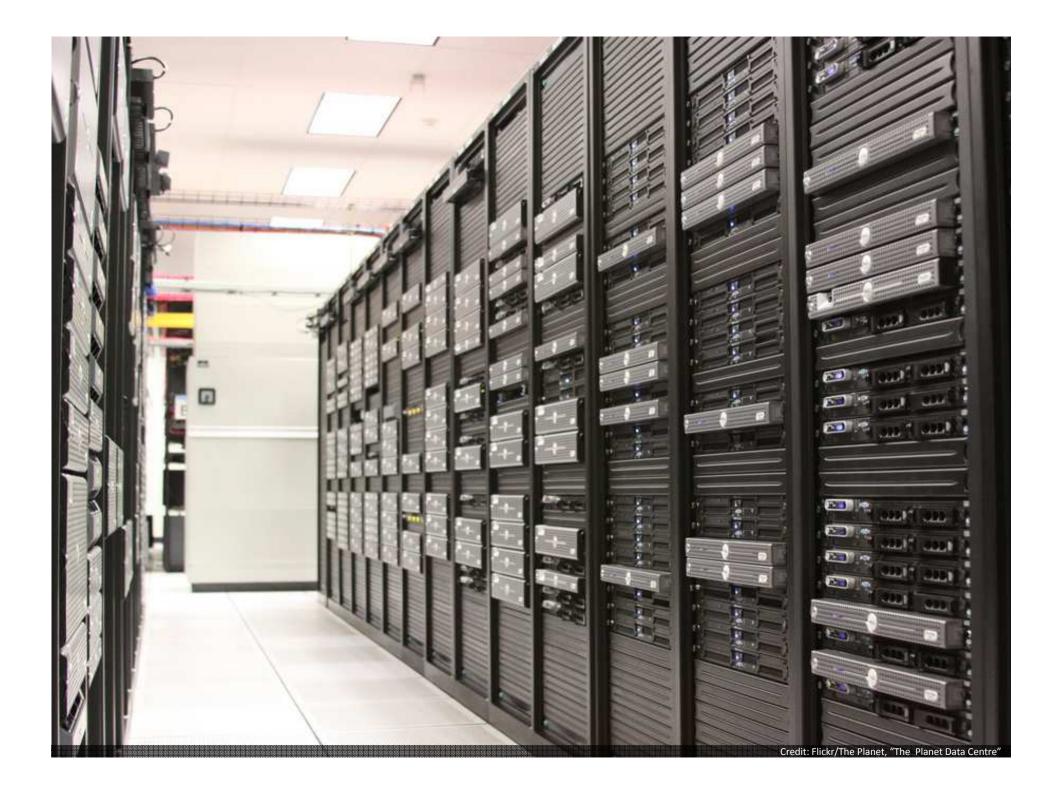




Best Practices - Recap

- Lock it down
 - EntitySet Access Rights
 - Server Driven Paging
 - AuthN Basic, OAuth 2.0, Windows etc.
 - AuthZ Query & Change interceptors
- Reach
 - Browser friendly feeds
 - Silverlight
 - JSONP

Challenges

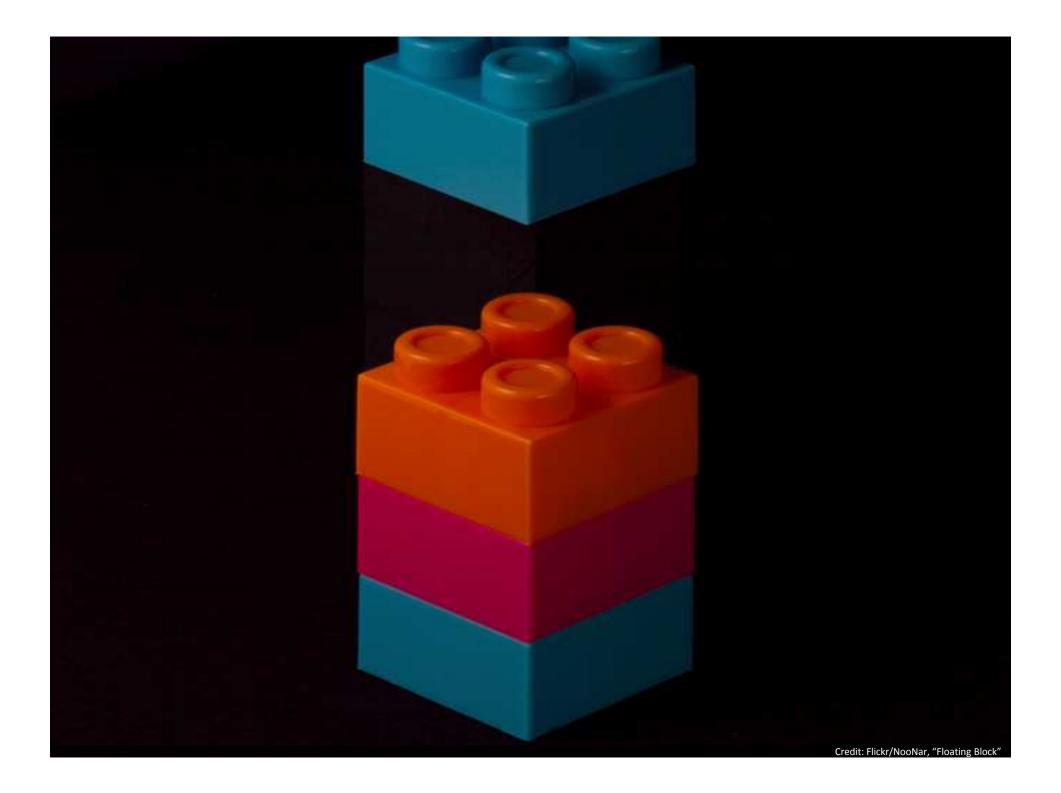


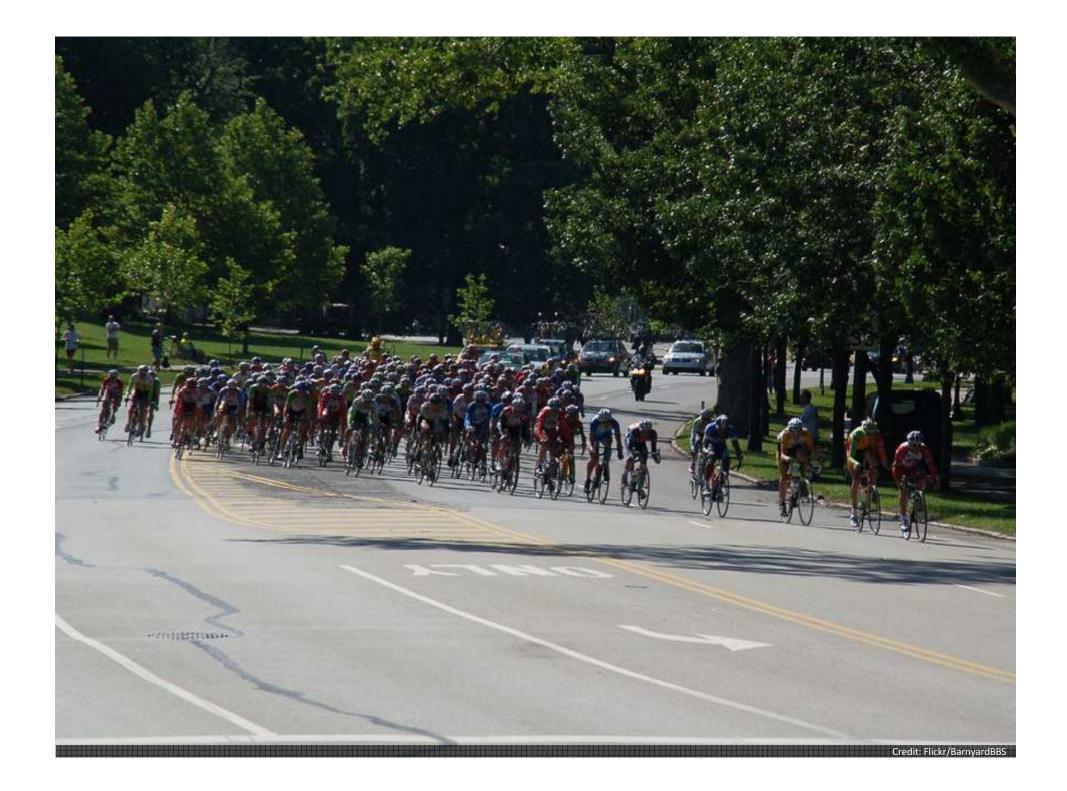






Constraints





Start











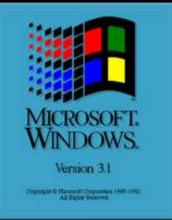


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quietly brilliant













IBMO

JOYN

crosoft Corp.

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303K









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Addendum encl

Spooler=no will d

Calculator

Paint



XPS Viewer



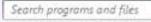
Windows Fax and Scan



Magnifier



All Programs





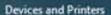
Attack on Kabul ends after

20 hours: government

REUTERS spokesman http://t.co/ wNJF4sL

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Default Programs

Help and Support





COURC.FON

EMM.PC

reminai

RUNNING BATCH (.BAT) FILES If you run a standard application should create a PIF file for the t↓









for users of Windows









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V



How is OData improving?

- Better Query Any/All & Inheritance
- Better Models MultiValue & Spatial Types
 - /Stores\$filter=Category/Name eq "coffee" and distanceto(Location, POINT(-127.89734578345 45.234534534)) It 900.0
- Better Efficiency
- Better Behaviors Actions

Demo

Summary

- OData is good for sharing data to many platforms.
- OData is becoming even better:
 - Any/All & Casts & Embedded Collections
 - Spatial
 - Efficient Format
- OData can now handle behaviors without compromise

Resources

- OData.org In particular the Blog and Mailing List
- WCF Data Services http://msdn.microsoft.com/en-us/data/bb931106
- blogs.msdn.com/astoriateam
- blogs.msdn.com/alexj