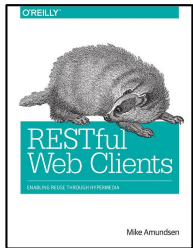
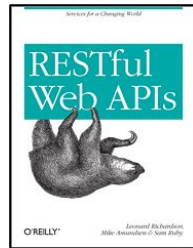


# RESTful Microservices from the Ground Up

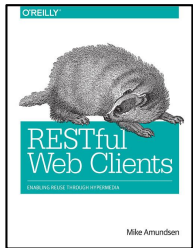
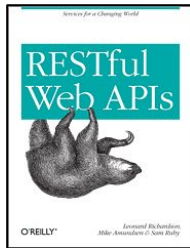


Mike Amundsen  
API Academy  
@mamund



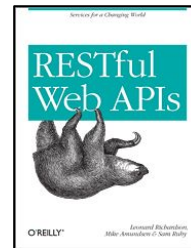
# Agenda

- 9:00 - 9:45 : What are RESTful Microservices?
- 9:45 - 10:30 : Models, Messages, and Vocabularies
- 10:30 - 10:45 : BREAK
- 10:45 - 11:30 : Runtime Service Infrastructure
- 11:30 - 12:15 : The Adaptable System
- 12:15 - 12:30 : Summary

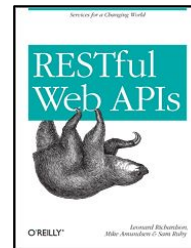


# Materials

- Laptop w/ wifi
- NodeJS
- Browser and cURL
- Your favorite editor
- Github and Heroku
- Pen and Paper

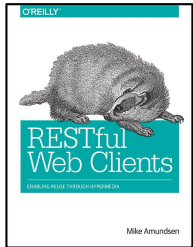
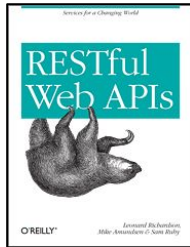


# What are RESTful Microservices?

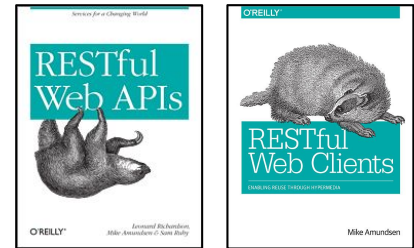


# What are RESTful Microservices?

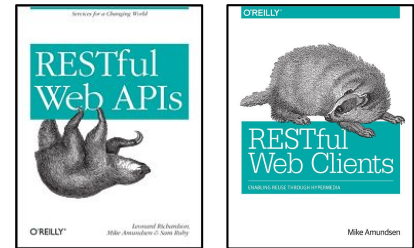
- Microservices
- RESTful-ness
- A New Kind of Service
- *Analysis Exercise*



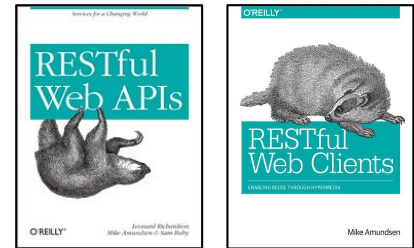
# Microservices



# RESTful-ness

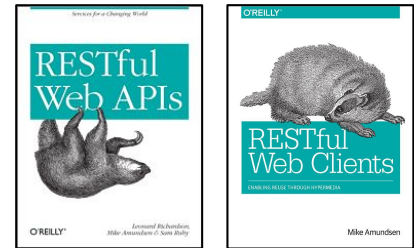


# A New Kind of Service

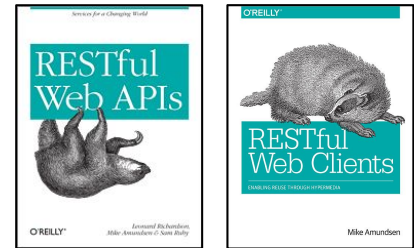




# Analysis Exercise

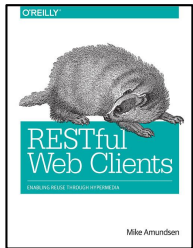
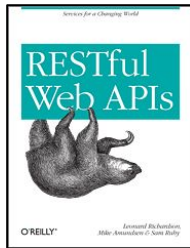


# Models, Messages, and Vocabularies

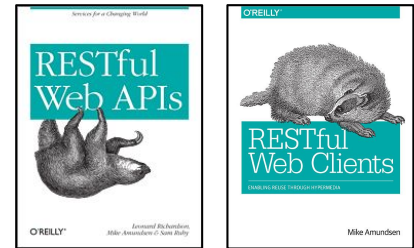


# Models, Messages, and Vocabularies

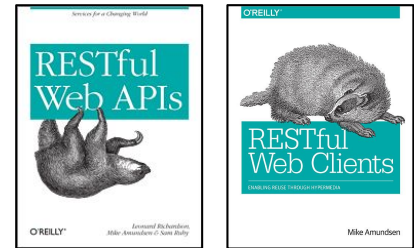
- Models on the Inside
- Messages on the Outside
- Vocabularies Everywhere
- *Design Exercise*



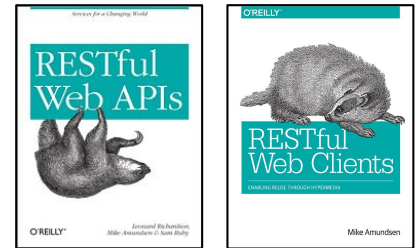
# Models on the Inside



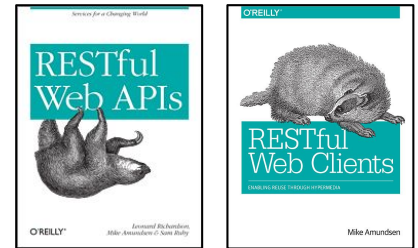
# Messages on the Outside



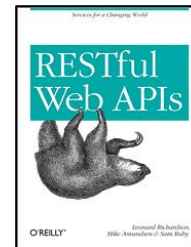
# Vocabularies Everywhere



# Design Exercise

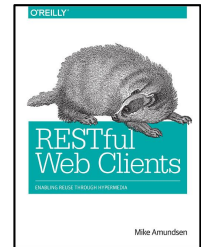
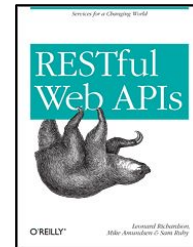


# BREAK



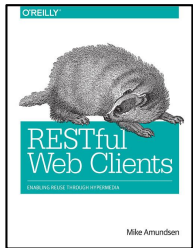
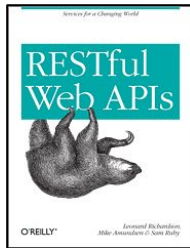


# Runtime Service Infrastructure

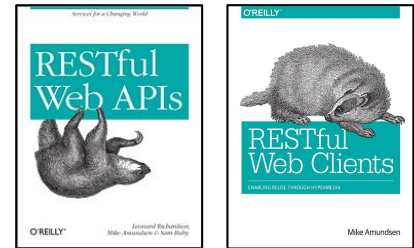


# Runtime Service Infrastructure

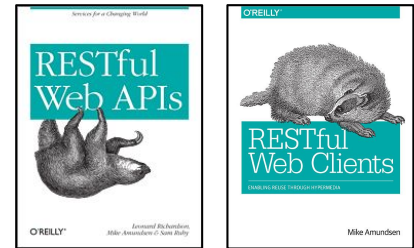
- Advertising Services
- Discovering Services
- Health Checking
- *Discovery Exercise*



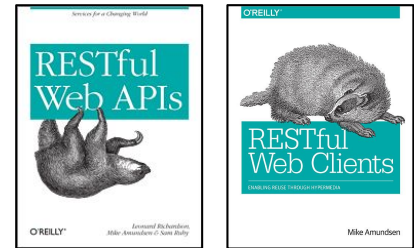
# Advertising Services



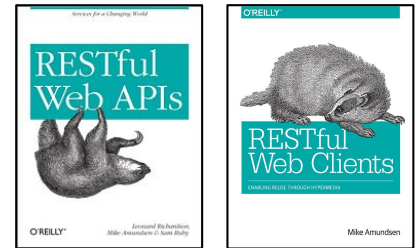
# Discovering Services



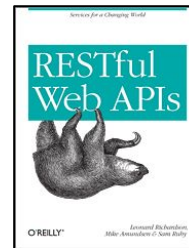
# Health Checking



# Discovery Exercise

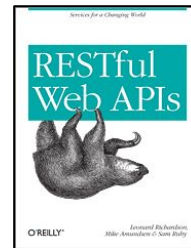


# The Adaptable System



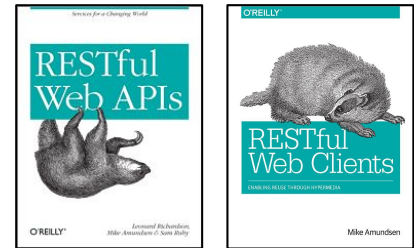
# The Adaptable System

- Evolvable Providers
- Adaptable Consumers
- The Power of Numbers
- *Adaptation Exercises*

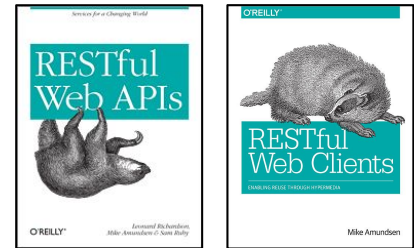




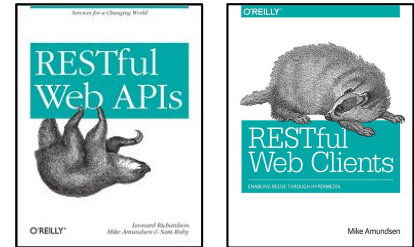
# Evolvable Providers



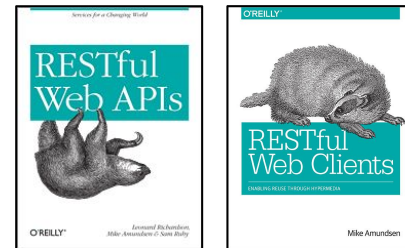
# Adaptable Consumers



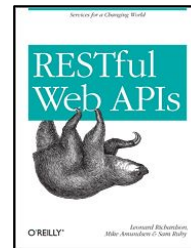
# The Power of Numbers



# Adaptation Exercise

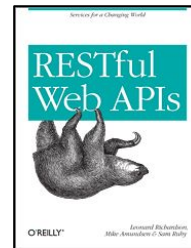


# Summary

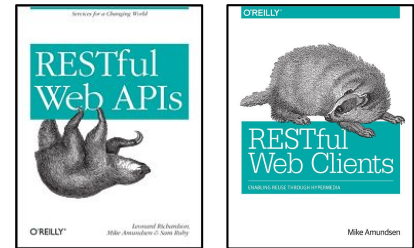


# Summary

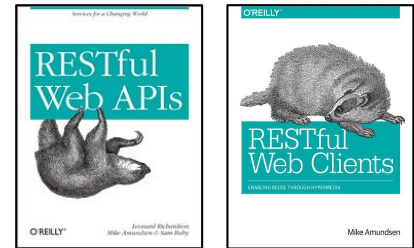
- A RESTful Approach
- Message-Oriented Implementation
- Discovery Constraints
- Emergent Adaptability



# A RESTful Approach

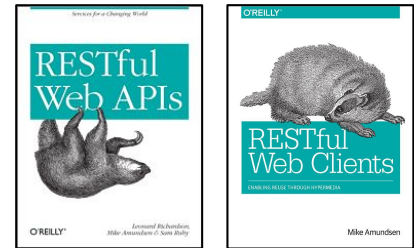


# Message-Oriented Implementation

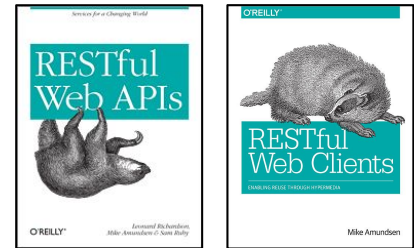




# Discovery Constraints



# Emergent Adaptability



# RESTful Microservices from the Ground Up

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