

Web Services

What are they and why should we use them?

Public Brain Trust Presentation

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Agenda

What we're going to be exploring today:

- ◆ What is a web service?
- ◆ Why use web services?
- ◆ Code Along: Lets build a web-service
- ◆ Demo: Web-services in action
- ◆ Q&A Session



What is a Web Service?

- ✦ Any arbitrary piece of software that is made available over a network
- ✦ Language Agnostic: Can be written in any programming language
- ✦ Can be internal (Private Network) or external (Internet)
- ✦ Comes in two Flavors: SOAP & REST



“A web service is a generic term for an interoperable machine-to-machine software function that is hosted at a network addressable location.”

- IBM



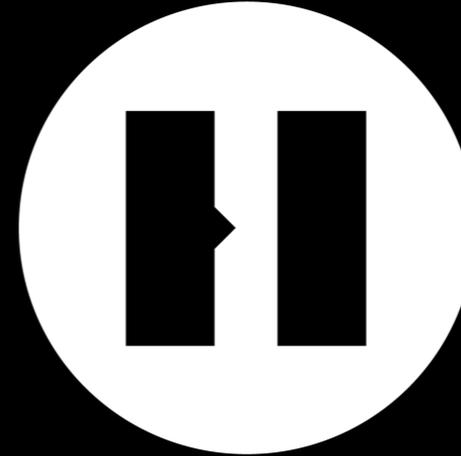
Why use Web services?

- ◆ Code once, use anywhere: Reuse code to share functionality across multiple applications
- ◆ Expose custom or third-party libraries and packages (ex. NPM, pip, Composer, etc.) via HTTP
- ◆ Facilitate communication between applications written in different languages
- ◆ Makes our applications more modular, thus making it easier to scale

How we use Web services here at Harmonic

We ...

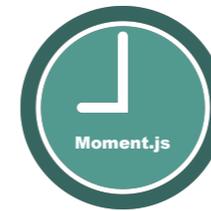
- ◆ Deploy internal RESTful Web services for any code/ functionality that we want to be able to re-use
- ◆ Use our internal services to quickly build out prototypes
- ◆ Integrate web services into our FileMaker Solutions to add/ extend functionality



Code Along: Lets build a web-service

Date/Time API

We'll be building a NodeJS Web Service to format and convert timestamps



Lets Code! 

Demo Time! 🙌

Lets grab a book from:

La Biblio-Tech-a

What we've learned ✨

A Web services is...

A piece of software that performs some tasks and is made available over a network.

Web services can help us...

- ◆ Share common code and data with multiple applications
- ◆ Facilitate communication between applications written in different languages
- ◆ Add or extend functionality to our FileMaker Solutions
- ◆ Speed up our prototyping and development process
- ◆ Help us design and build more scalable resilient applications

Questions?