

# RESTful Web Services with Node.js and Express

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WHAT IS REST?



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# What You Will Learn



## **Build a RESTful API with Node.js and Express**

- What REST really is
- Set up Node and Express environment
- Implement REST verbs
- Wire up MongoDB
- Unit Testing with Mocha and Sinon.js
- Hypermedia for easy API navigation



# What Is **REST** Anyway?

## **Roy Fielding's Dissertation**



What Is REST Anyway?

Roy Fielding's Dissertation

Representational State Transfer



# What Is REST Anyway?

Roy Fielding's Dissertation

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What Is **REST** Anyway?

**Roy Fielding's Dissertation**

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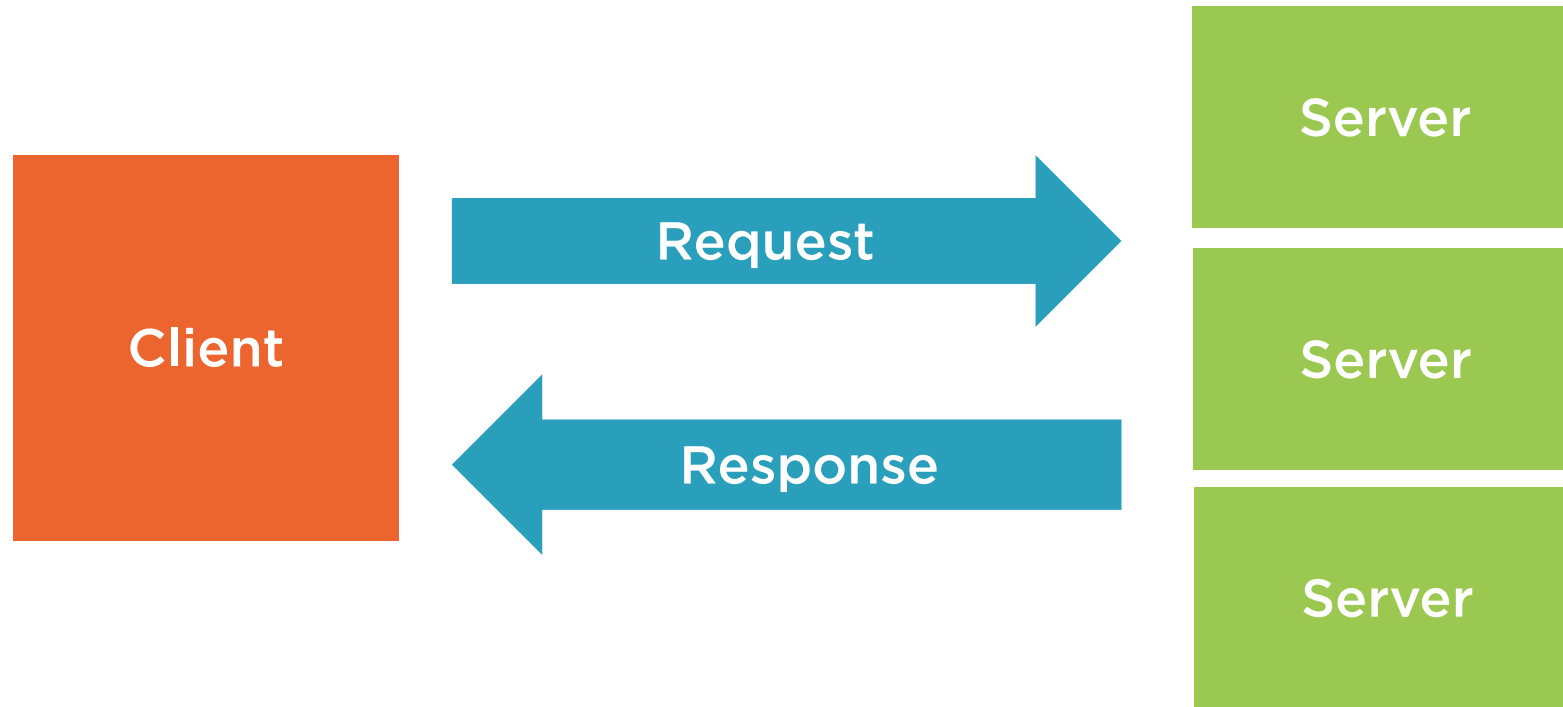
# What Is REST Anyway?

## The Constraints – Client Server



# What Is REST Anyway?

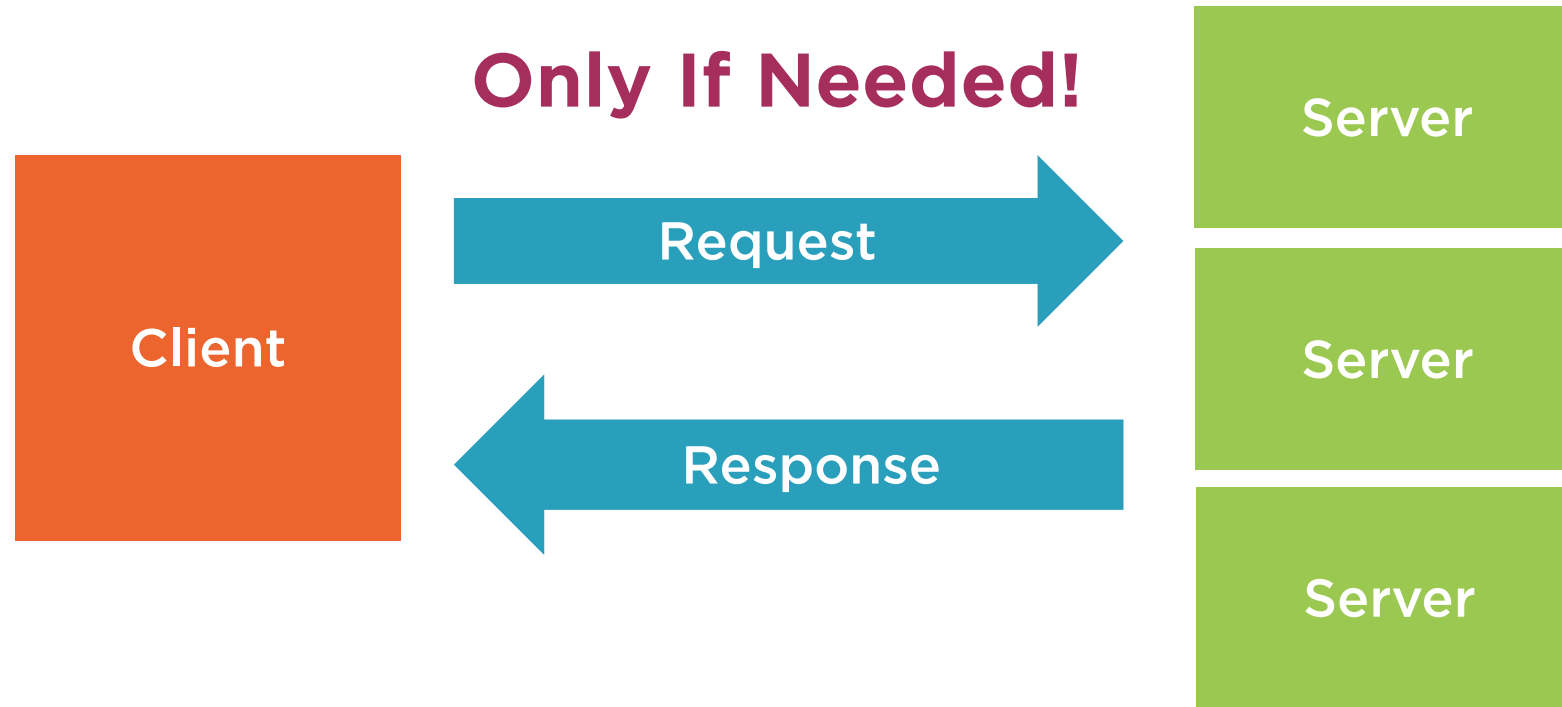
## The Constraints – Stateless Server





# What Is REST Anyway?

## The Constraints – Caching



# The Uniform Interface



# The **Uniform** Interface

**Resources(n)**



# The Uniform Interface

Resources(n)



<http://.../Books/>



# The Uniform Interface

Resources(n)

**GET**

**PUT / PATCH**



**POST**

**DELETE**



# The **Uniform** Interface

Hypermedia as the Engine of Application State

**(HATEOAS)**



# Demo



## Setting up your environment



# Demo



## Setting up some tooling





# What You Learned



## Build a RESTful API with Node.js and Express

- Talked REST!
- Created an API
- Installed ESLint for linting
- Nodemon for environment

