

# ***Express Yourself***

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**The Coding Bootcamp**

# ***Today's Class***

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# Your Objectives

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## **Before you walk out the door you should...**

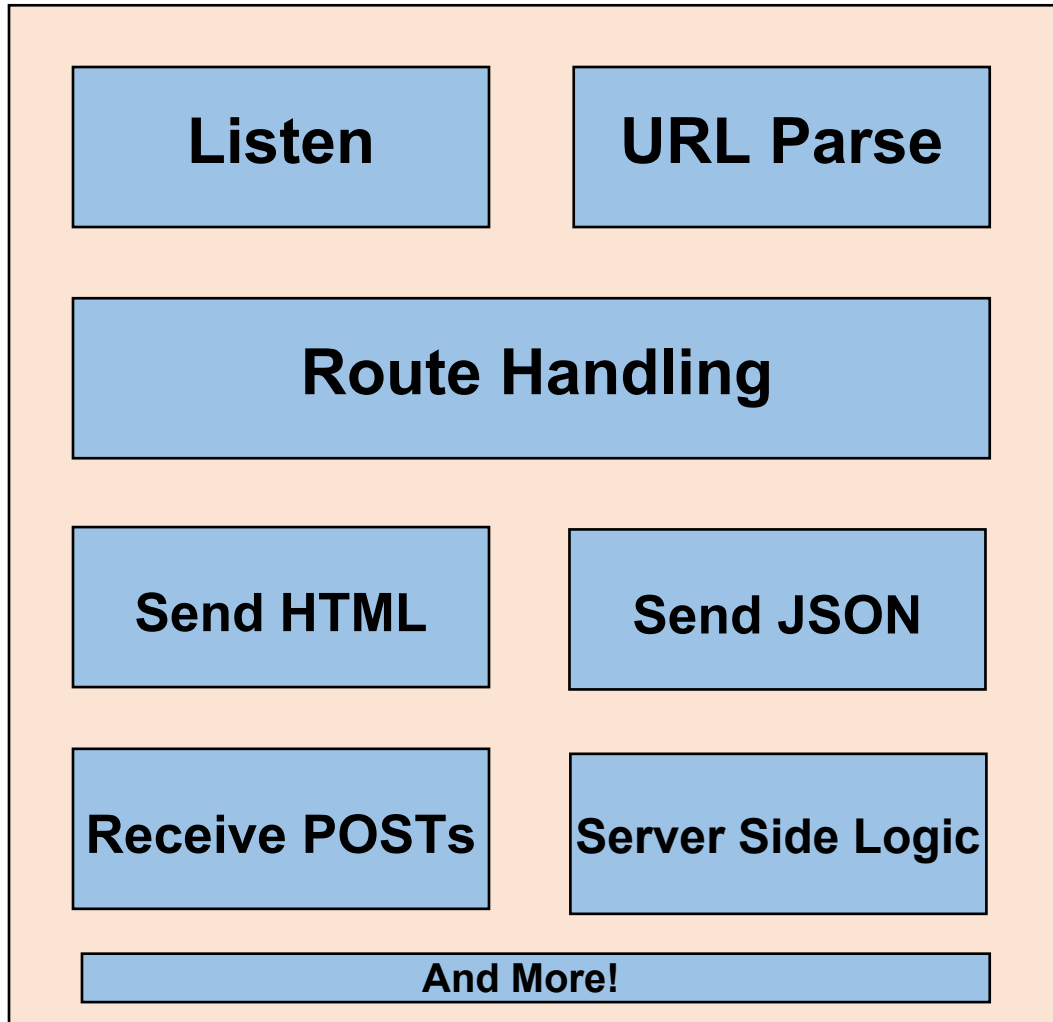
- Know how to create a generic Express Server (copy and paste is fine).
- Know how to create a basic Express GET route
- Know how to create an Express POST route
- Know what POST Man is for
- Understand “conceptually” how to use AJAX to GET and POST data to an Express server

***A Moment to Refresh***

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# Inside the Box: And More!

## Server



- In a way, servers can be represented as hardware boxes with modules of server-side code contained inside.
- Servers typically contain code for tasks such as listening, parsing URLs, route handling, and more.

***Express***

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Remind me again...

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What is **Express**?

# Express

Fast, unopinionated,  
minimalist web framework for  
[Node.js](#)

```
$ npm install express --save
```

Web framework for node to make  
creating code for **server** much simpler

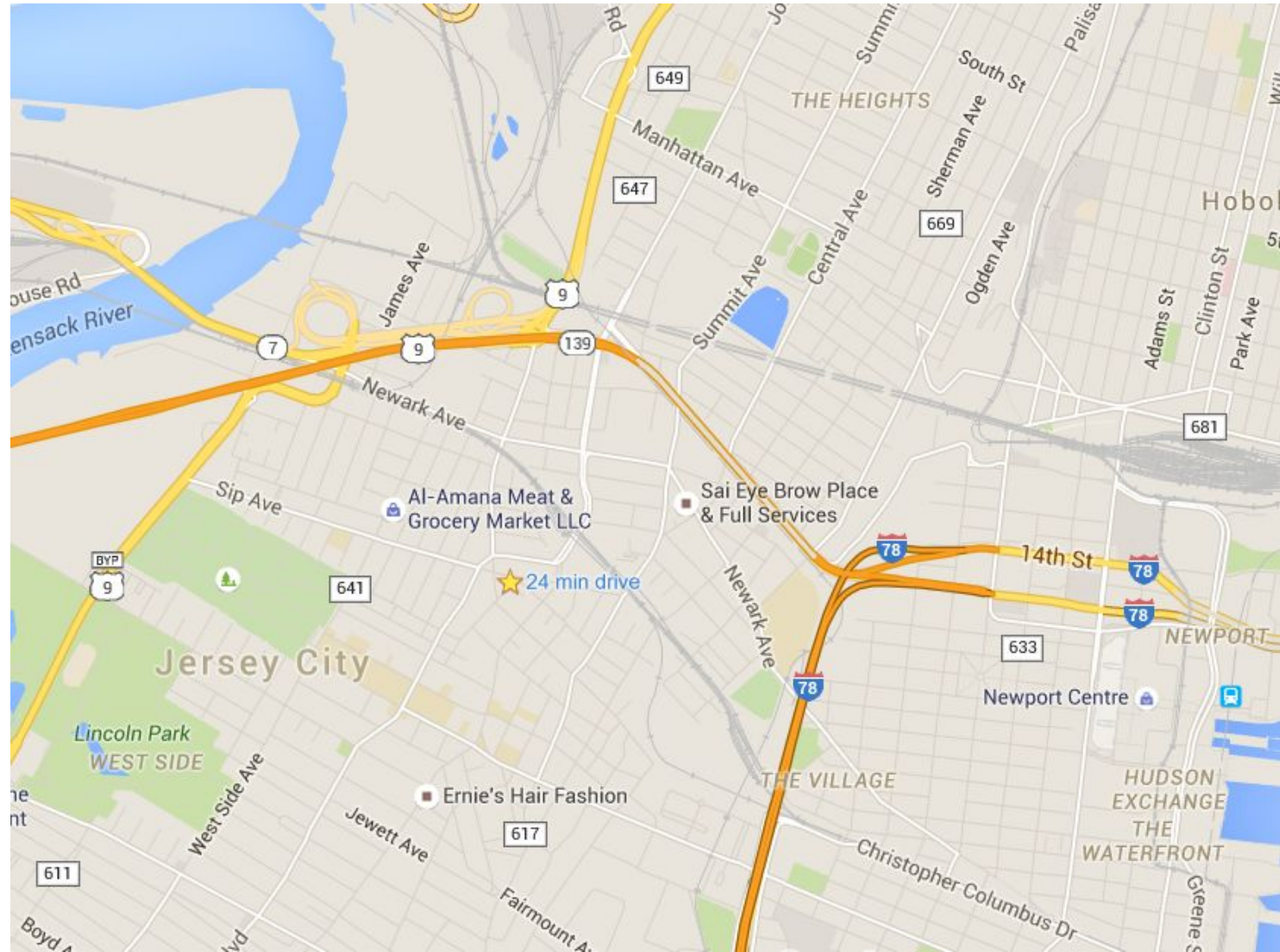


Remind me again...

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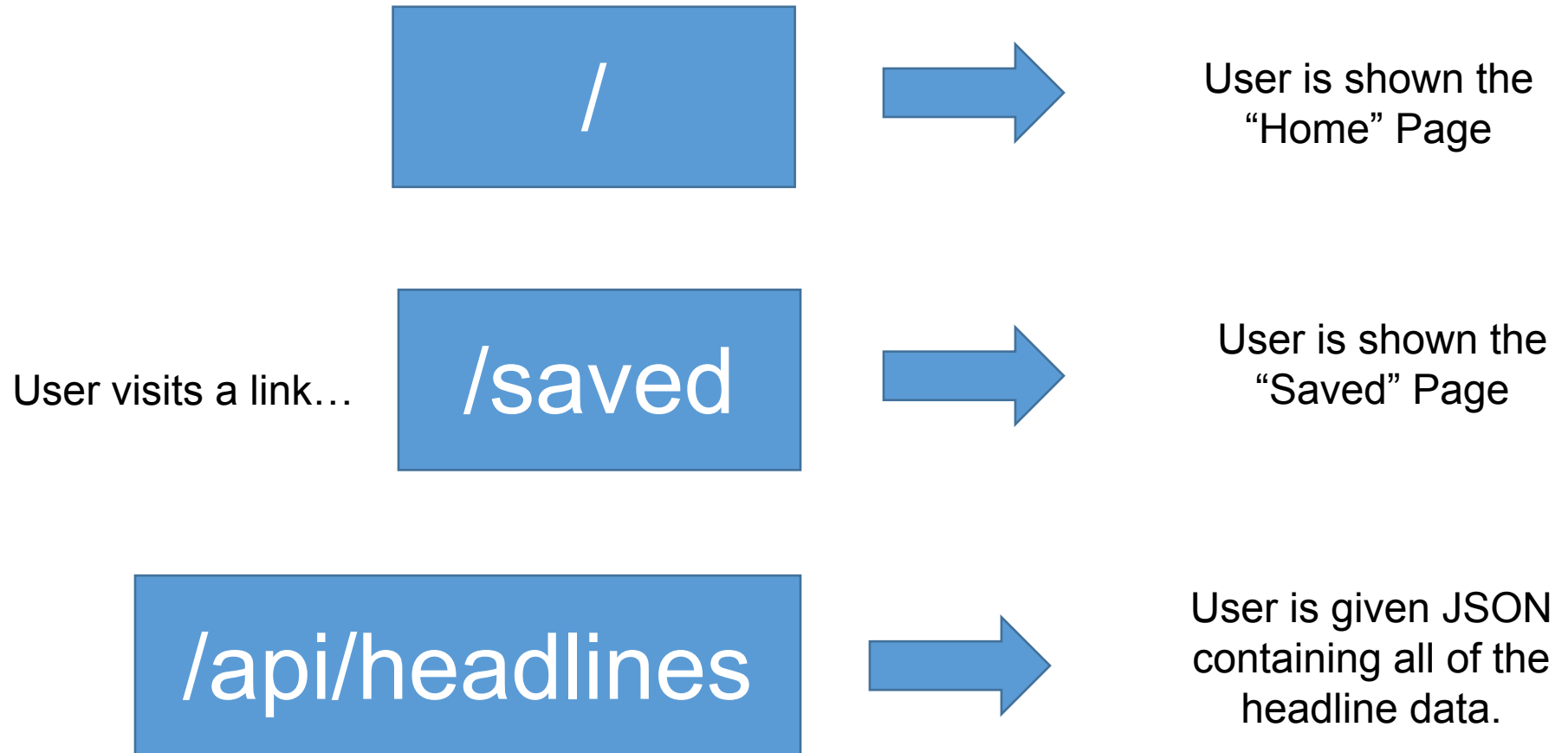
What is a **route**?

# Routes = Maps



# Routes = Maps

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# Quick Example

Mongo Scraper

Home

Saved Articles

SCRAPE NEW ARTICLES!

world's greenhouse gas emissions, pollution from fertilizers, habitat degradation. Under our current farmers use lights, ventilation, and growing technologies to create an environment to grow cannabis, a lot of greenhouse emissions. the precipice of a similar fate riculture in Canada, it's time to e can shift marijuana cultivation mentally friendly path. t, growers have already begun concerns about the large-scale pot, envisioning an alternative odel, similar to craft breweries. that consumers will appreciate ally friendly product for a higher ct that many British Columbians tra dollars for craft beer proves

the federal with a large-Shoppers a legalized

abandoned vessels. Transport Canada has abandoned or derelict ves: waters, undoubtedly an under. Each is, at least, an eyesore and source of environmental contamin. navigational hazard. The cost to remove an aban vessel ranges from small change to sev hundred thousand dollars, depending on complexity. As many of these vessels end, owners are tempted to dump them in public waters. As litterbugs on land found at the dawn of anti-litter laws, penalties for abandoning vessels are needed to discourage the practice. But many government agencies are involved: Transport Canada, the Coast Guard, federal and provincial environmental agencies, and local governments. Overlapping agencies dilute responsibility, cause inefficiency and foster inaction. At least M-40 carries some political and moral weight in calling on the government to do something. The bad news is that motions have no binding legal effect. Furthermore, the wording

MONGO SCRAPER  
NEW YORK TIMES EDITION

**SUPPORTS FOOD BANK**  
Christine Suter from C2Skymultisport and Dave the Whistler Half Marathon would like to thank all of the walkers, runners, and volunteers who came out and participated in the Whistler Food Bank 5km fun run and walk in support of Whistler Community Services Society. We raised \$1,000 and donated over 80lbs of food! Thanks to everyone for supporting our community!  
Christine Suter  
Whistler

**RECYCLING CHANGES WILL**

**KUDOS TO MUNI PARKS STAFF**  
I'm rehabbing from knee-replacement surgery and I walk Emerald Forest and Lost Lake Park trails daily. We sometimes fail to appreciate what a wonderful system of well-planned and beautifully constructed trails we have in our backyard. Kudos to the trail building crews, parks planners, and Muni Council(s) that have

Len Ritchie  
Pemberton

How Whales Became the Planet's Biggest Animals

SAVE ARTICLE

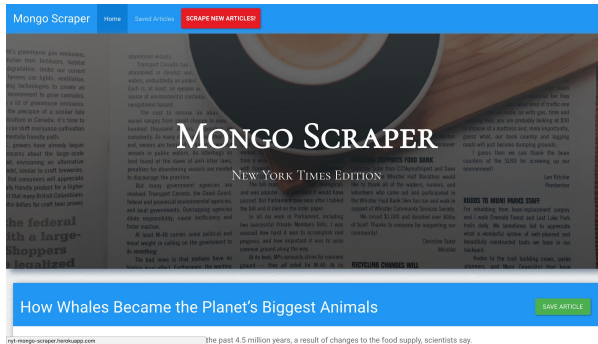
nyt-mongo-scraper.herokuapp.com

the past 4.5 million years, a result of changes to the food supply, scientists say.

<http://nyt-mongo-scraper.herokuapp.com/>

# Client-Server Communication (GET)

## Client Browser



1) User visits “/”  
route  
(GET Request)

## Node Server

```
node server
[chriseckenrode:~/Sites/mongoscraper]$ node server
Listening on port:3000
mongoose connection is successful
```

# Client-Server Communication (GET)

## Client Browser



1) User visits  
/saved  
(GET Request)

3) Server responds  
by providing HTML  
with saved articles

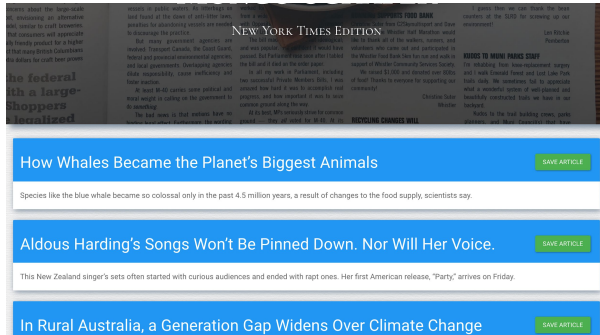
## Node Server

```
node server
[chriseckenrode:~/Sites/mongoscra] $ node server
Listening on port:3000
mongoose connection is successful
```

2) Request triggers the  
code in the Server  
route. The server then  
finds the relevant HTML  
content and data

# Client-Server Communication (POST)

## Client Browser



1) User saves an article  
using "api/headlines"  
(POST Request)

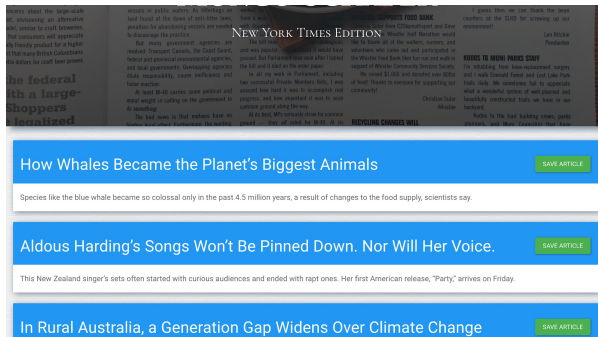


## Node Server

```
node server
[chriseckenrode:~/Sites/mongoscraper]$ node server
Listening on port:3000
mongoose connection is successful
```

# Client-Server Communication (POST)

## Client Browser



1) User saves an article using "api/headlines" (POST Request)

3) "Saved" articles are loaded on the saved page.

## Node Server



2) Request triggers the code in the Server route. The server then sets the article as "saved" in the database.



***Activity Time!***

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