Section 22 - Backend Web Development

Backend Web Development Explained

The App Brewery

The Backend

Behind the scenes code: Servers, Applications, and the Database

www.appbrewery.com

Full-Stack = Front-end + Back-end

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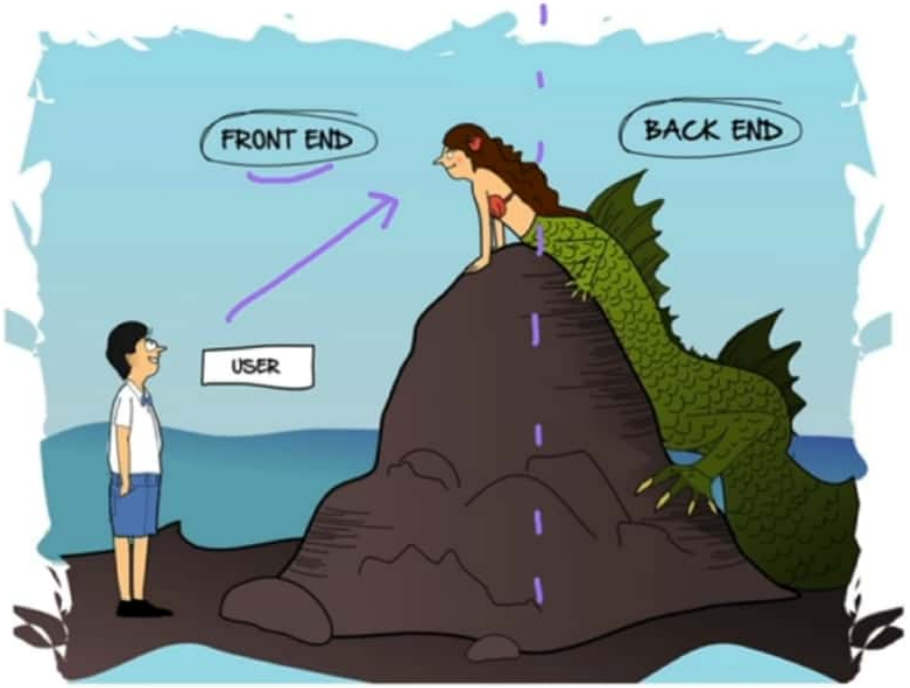

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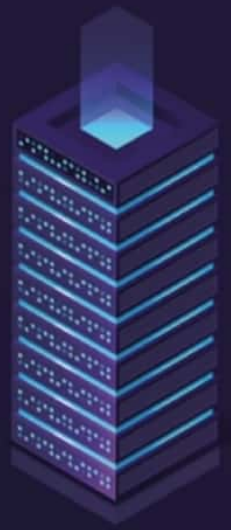
udemy

What is the backend?

Server



Application

Database

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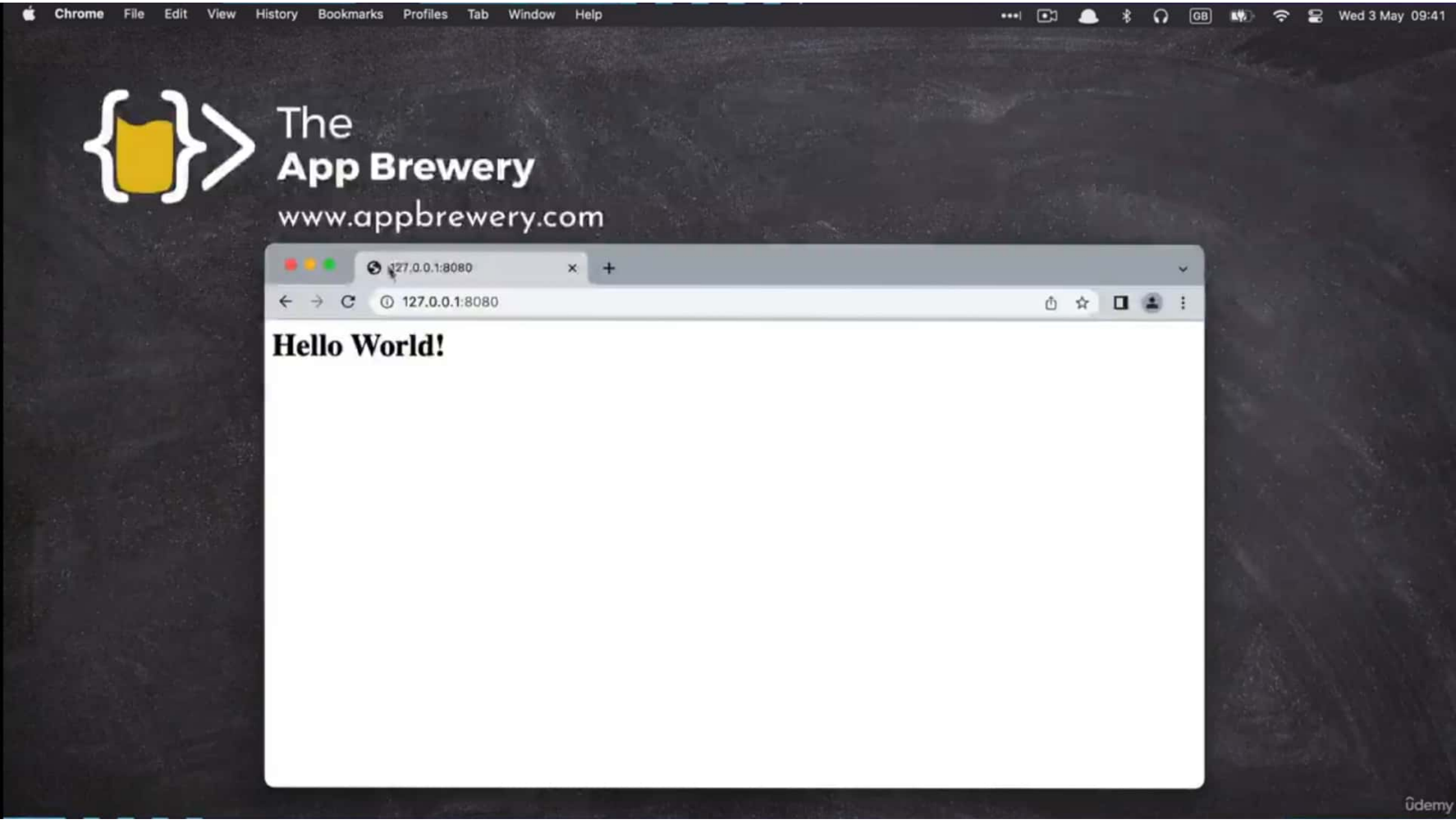
Server

Computer

On 24/7


Chrome File Edit View History Bookmarks Profiles Tab Window Help
Wed 3 May 09:41
The
App Brewery
www.appbrewery.com
127.0.0.1:8080
127.0.0.1:8080
Hello World!
Udemy

Application

Logic

Respond to Requests

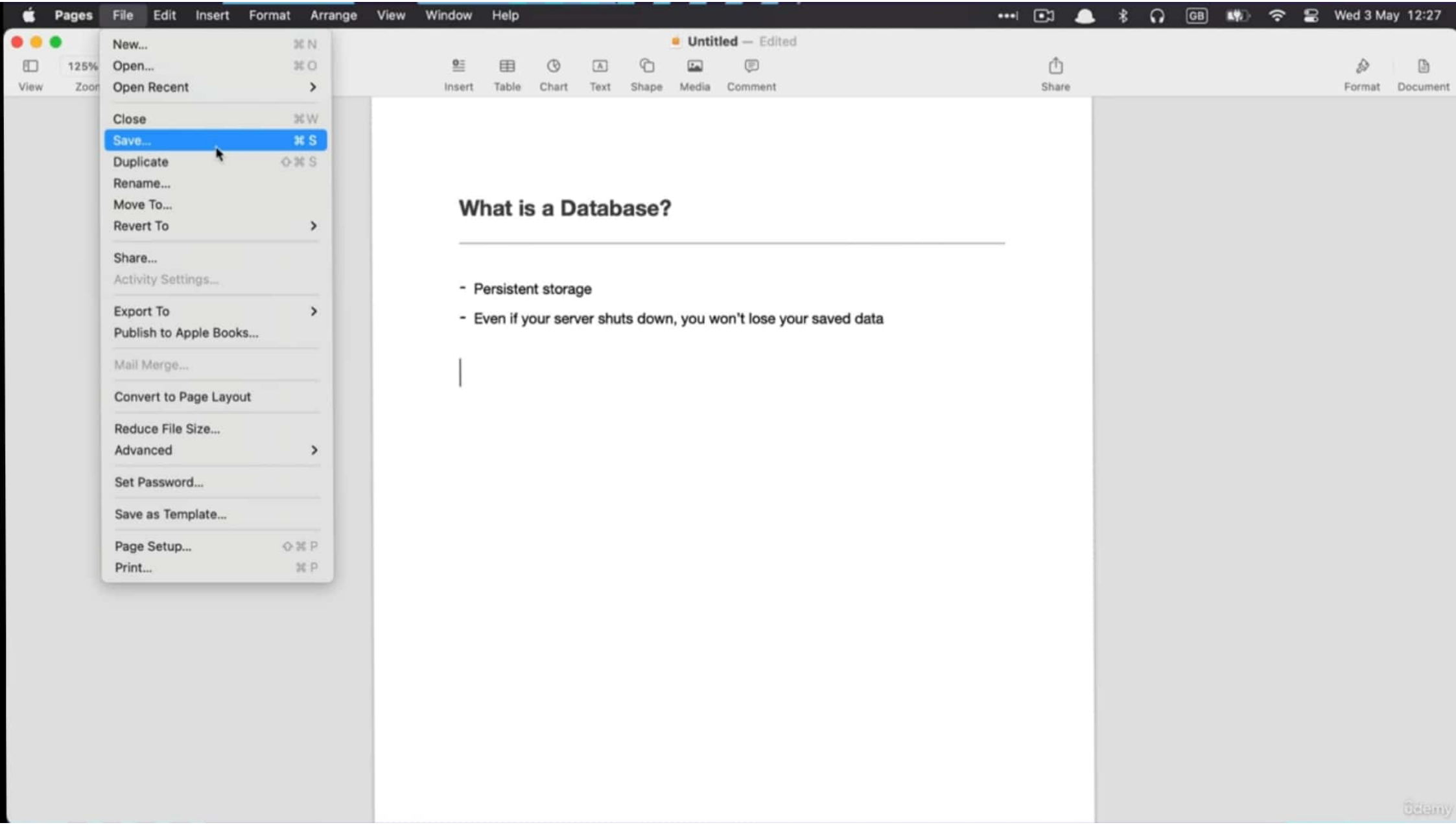
Status Code

app X

Request → invalid 404

Database

Store Data


Pages File Edit Insert Format Arrange View Window Help
Wed 3 May 12:27
New... ⌘N
Open... ⌘O
Open Recent
Close ⌘W
Save... ⌘S
Duplicate ⇧⌘S
Rename...
Move To...
Revert To
Share...
Activity Settings...
Export To
Publish to Apple Books...
Mail Merge...
Convert to Page Layout
Reduce File Size...
Advanced
Set Password...
Save as Template...
Page Setup... ⇧⌘P
Print... ⌘P
Untitled — Edited
View
125%
Insert
Table
Chart
Text
Shape
Media
Comment
Share
Format
Document
What is a Database?
- Persistent storage
- Even if your server shuts down, you won't lose your saved data

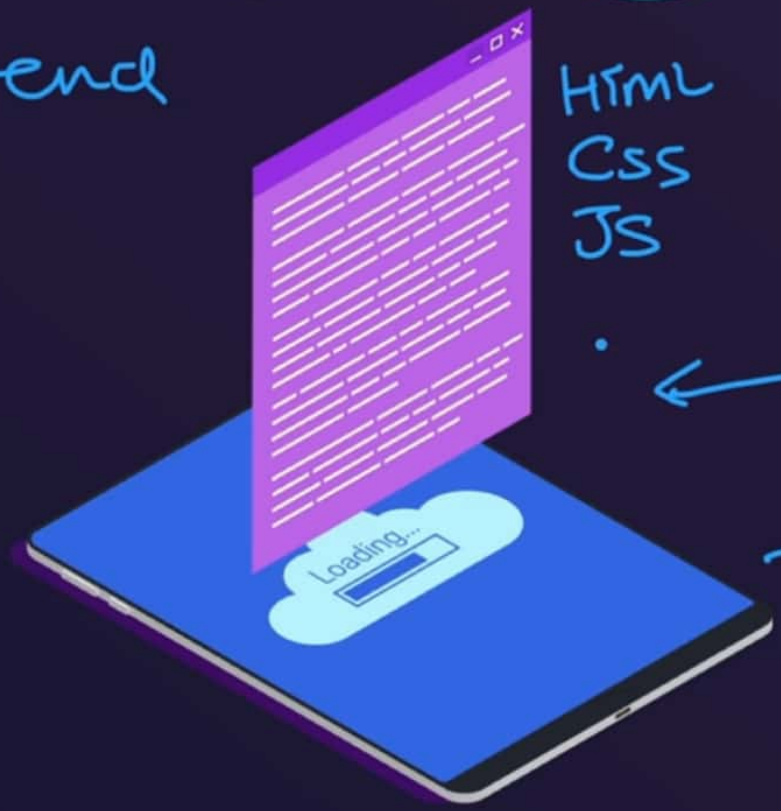
Database

Store Data

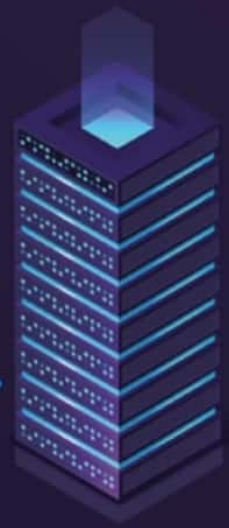
Persist

Web Page

Front-end



HTML
CSS
JS



Server

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Chrome File Edit View History Bookmarks Profiles Tab Window Help Wed 3 May 12:30

GitHub Pages | Websites for yo

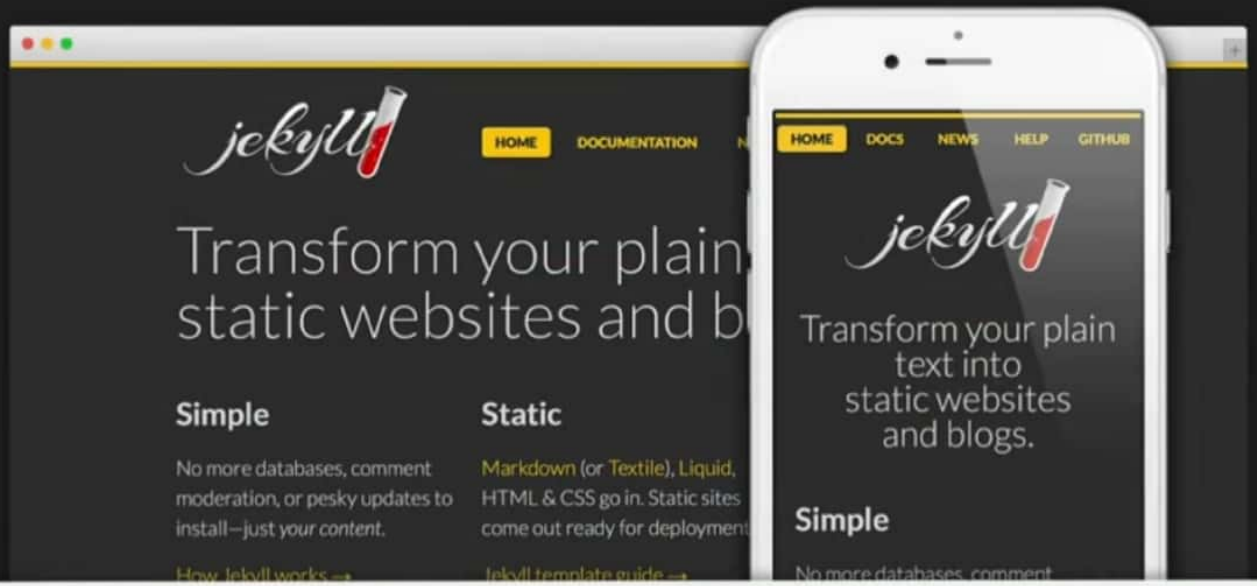
pages.github.com

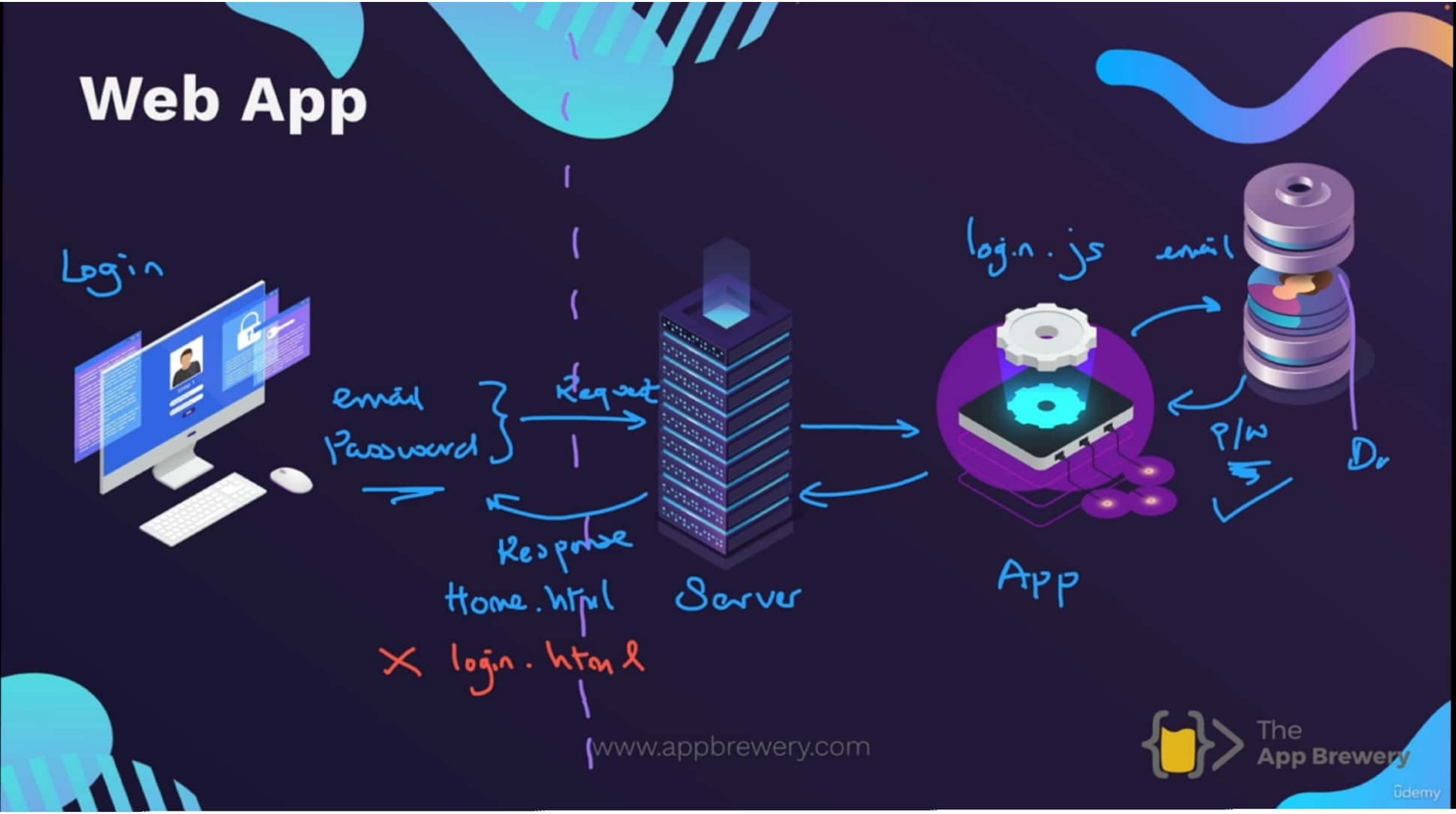
Pages Help

GitHub Pages

Websites for you and your projects.

Hosted directly from your GitHub repository. Just edit, push, and your changes are live.




Web App
Login
email
Password
Request
Response
Home.html
login.html
Server
login.js
email
P/W
App
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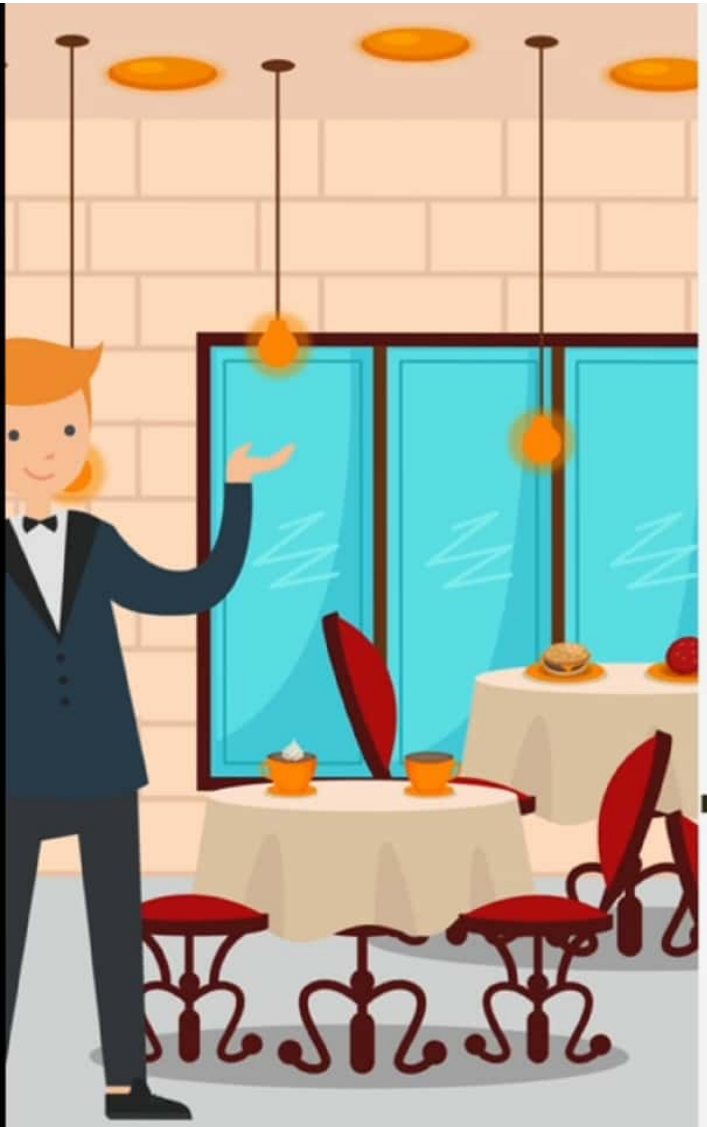
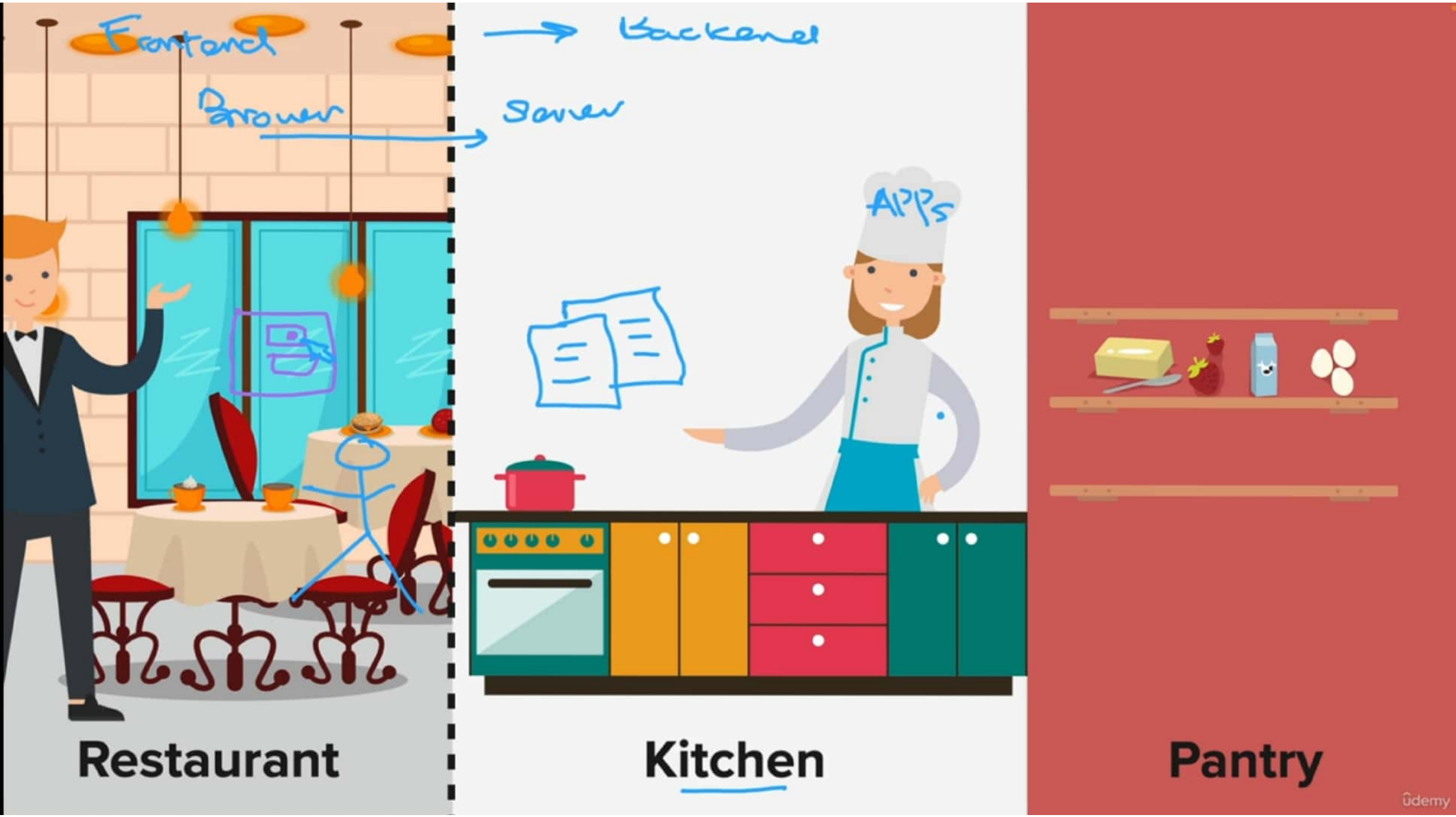


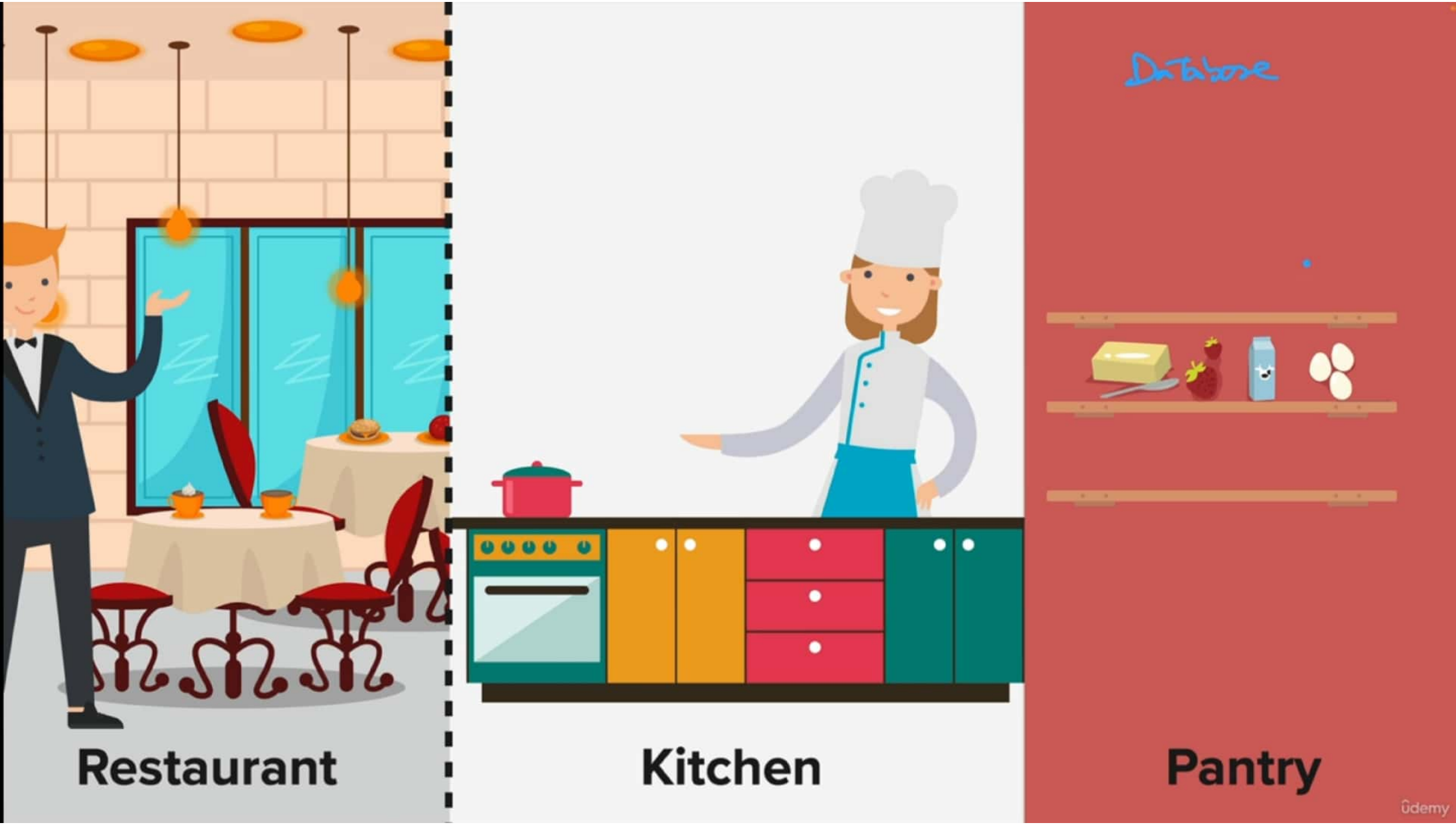
Restaurant

Kitchen

Pantry

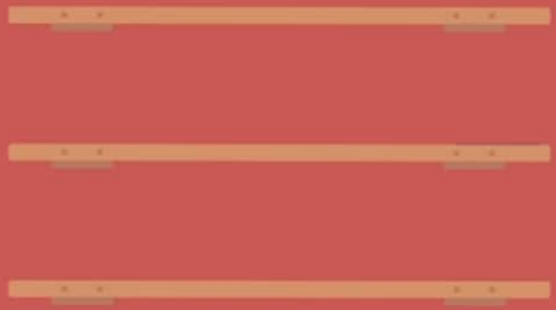
Udemy


Frontend
Backend
Borrower
Server
APPs
Restaurant
Kitchen
Pantry


Database
Restaurant
Kitchen
Pantry
Udemy

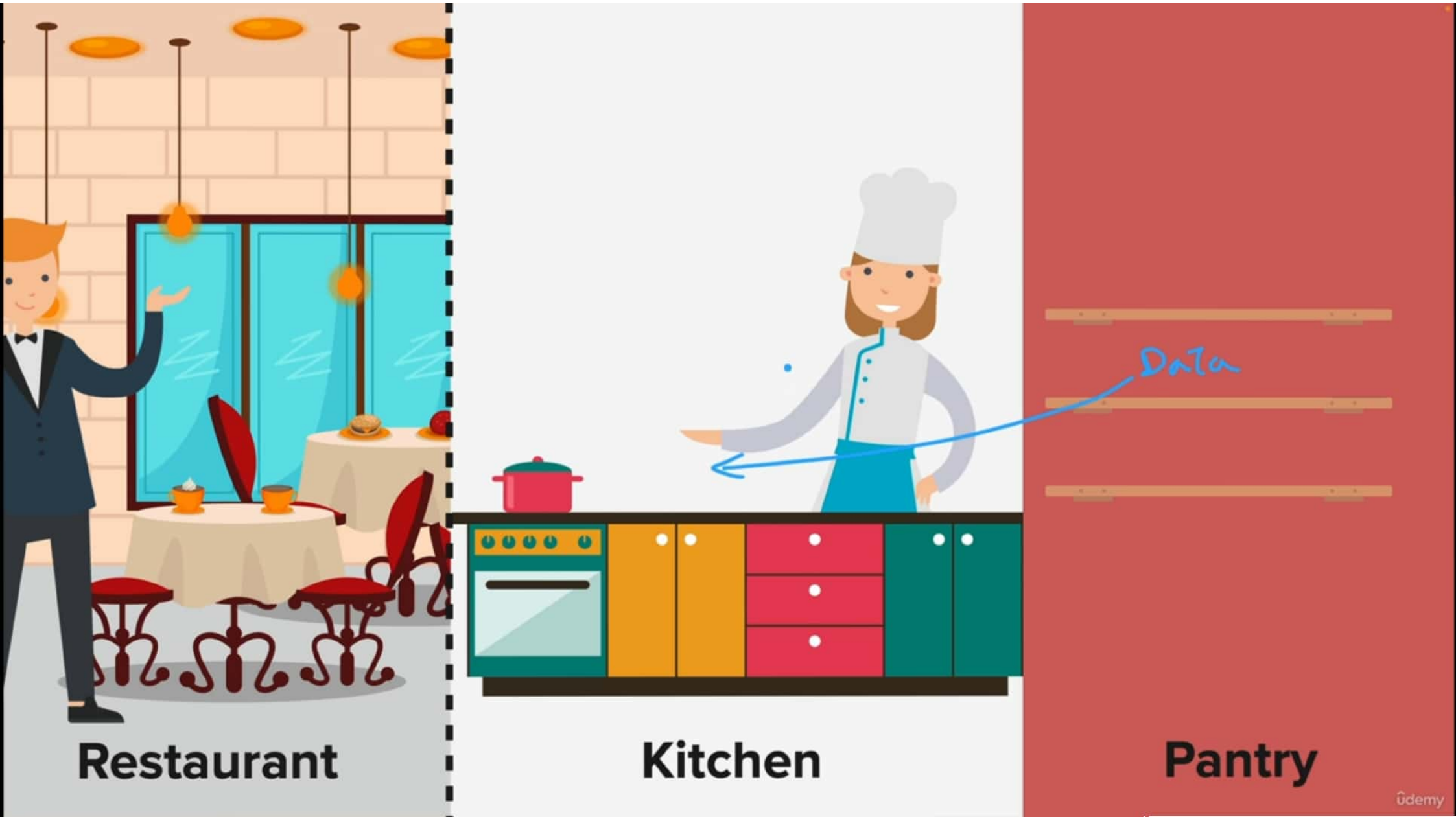
Restaurant

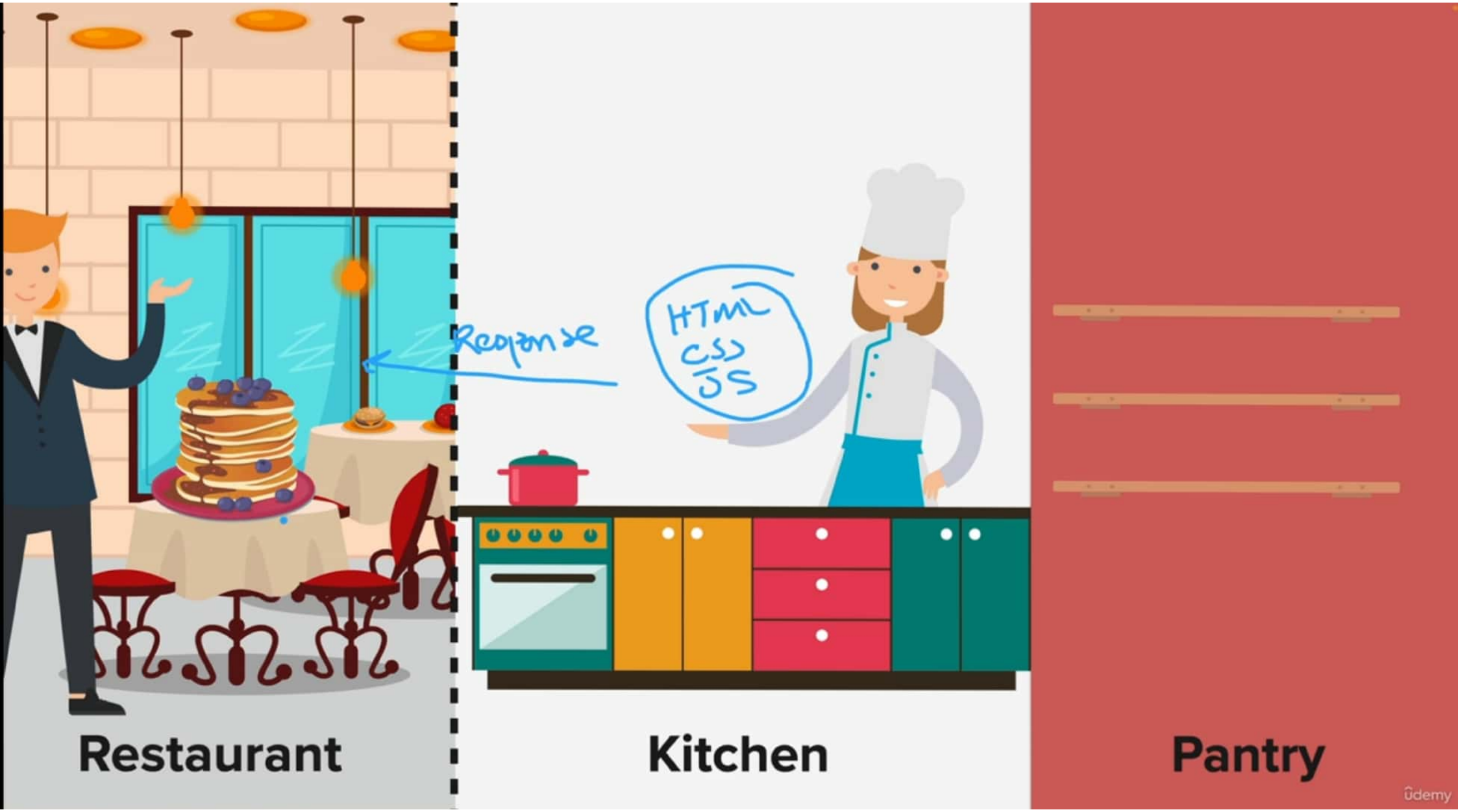
Kitchen

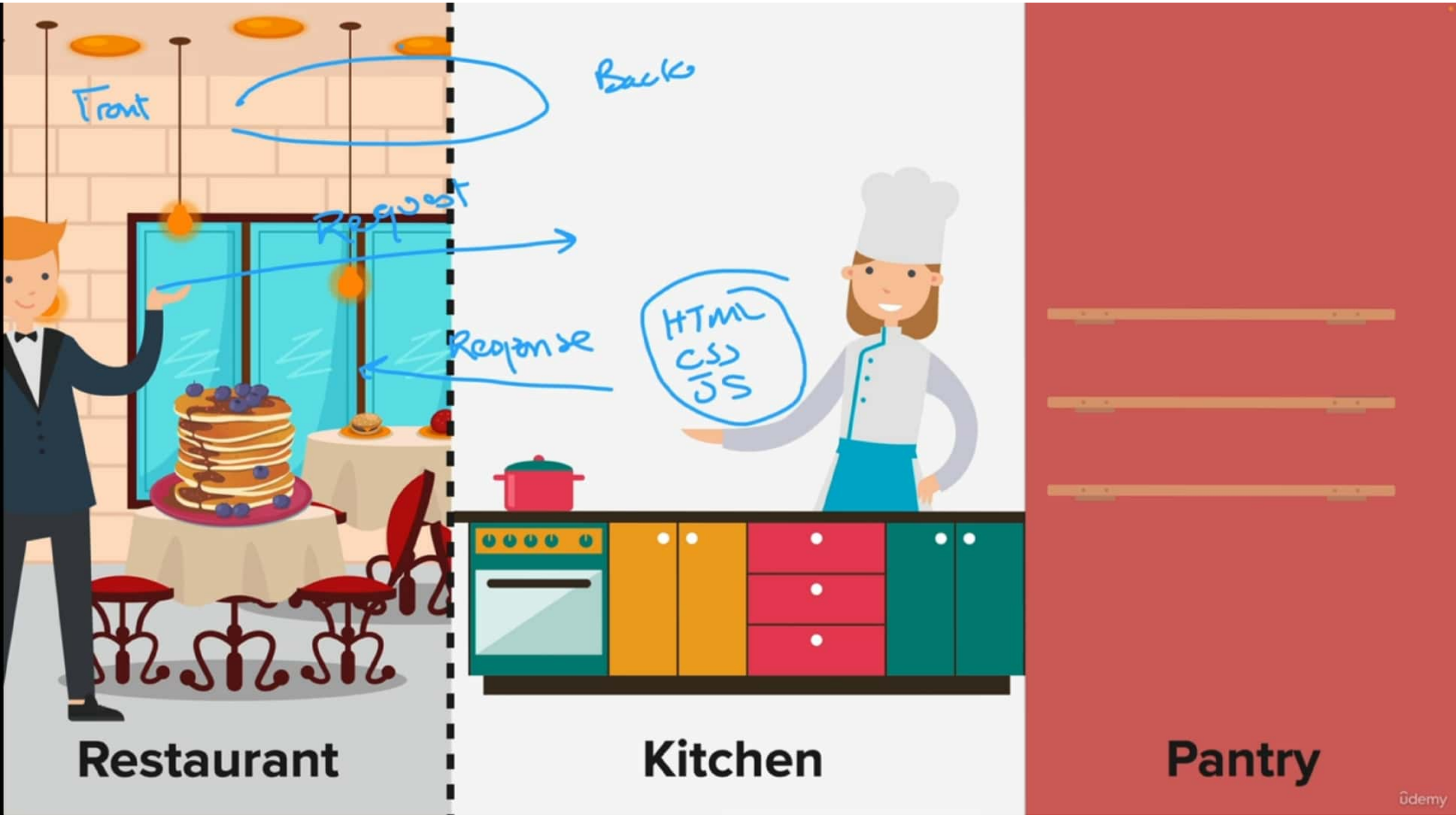


Pantry

Udemy


Data
Restaurant
Kitchen
Pantry
udemy


Response
HTML
CSS
JS
Restaurant
Kitchen
Pantry
udemy


Front
Back
Request
Response
HTML
CSS
JS
Restaurant
Kitchen
Pantry
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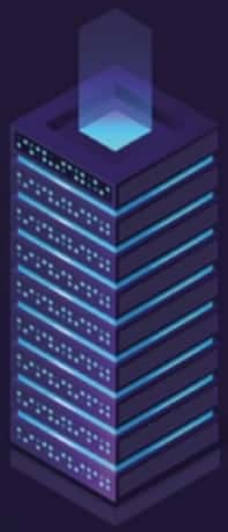
Back-end Tooling and Technology



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Backend Tools and Technologies - Which one to learn?

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Back-end Technologies

The tools used to build modern web applications.

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Front-end

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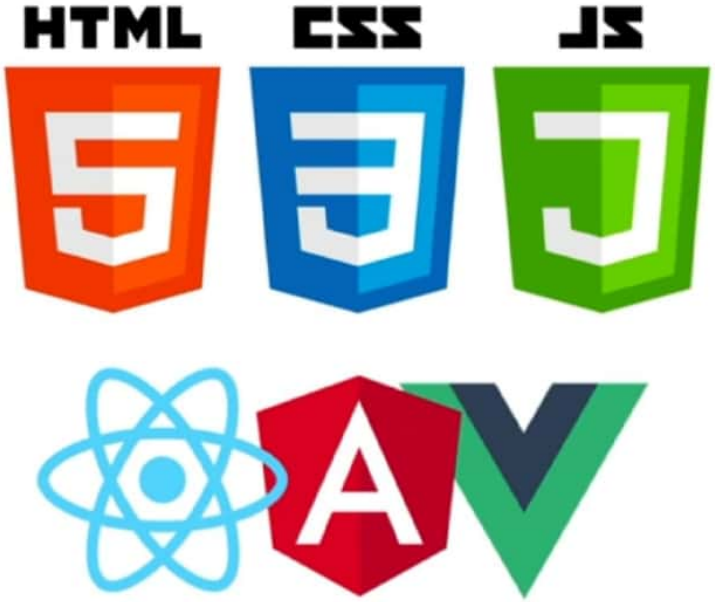
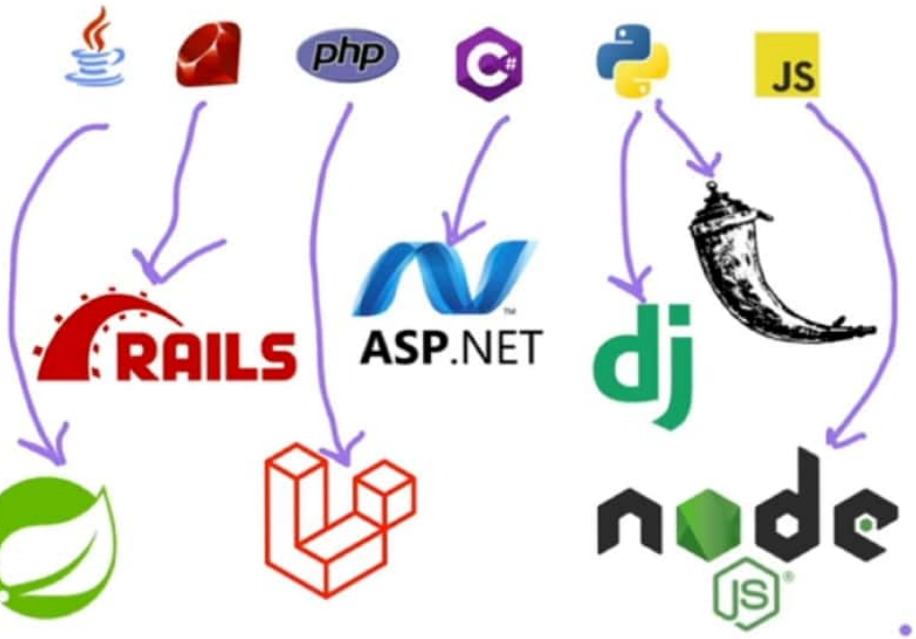
Front-end



Back-end



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React.js 44.31%
jQuery 29.21%
Express 23.19%
Angular 23.06%
ASP.NET Core 20.71%
Vue.js 19.9%
ASP.NET 16.15%
Next.js 13.93%
Django 13.59%
Flask 13.24%
Laravel 10.3%
Angular.js 9.94%
Ruby on Rails 6.37%
FastAPI 6.01%
Blazor 4.92%
Svelte 4.11%
PHP
Ruby
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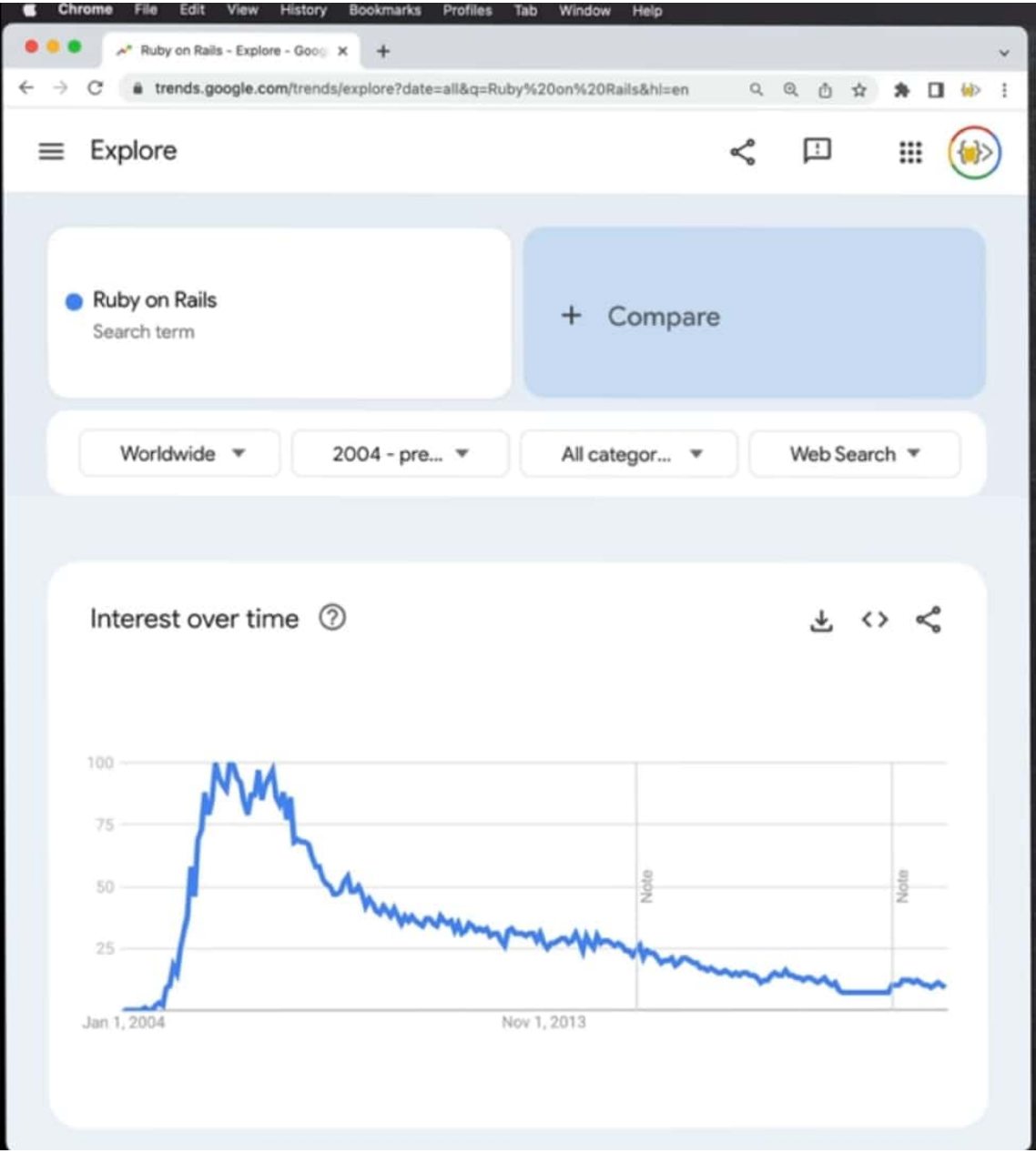
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Ruby on Rails - Explore - Goog
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Explore
Ruby on Rails
Search term
+ Compare
Worldwide
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Web Search
Interest over time
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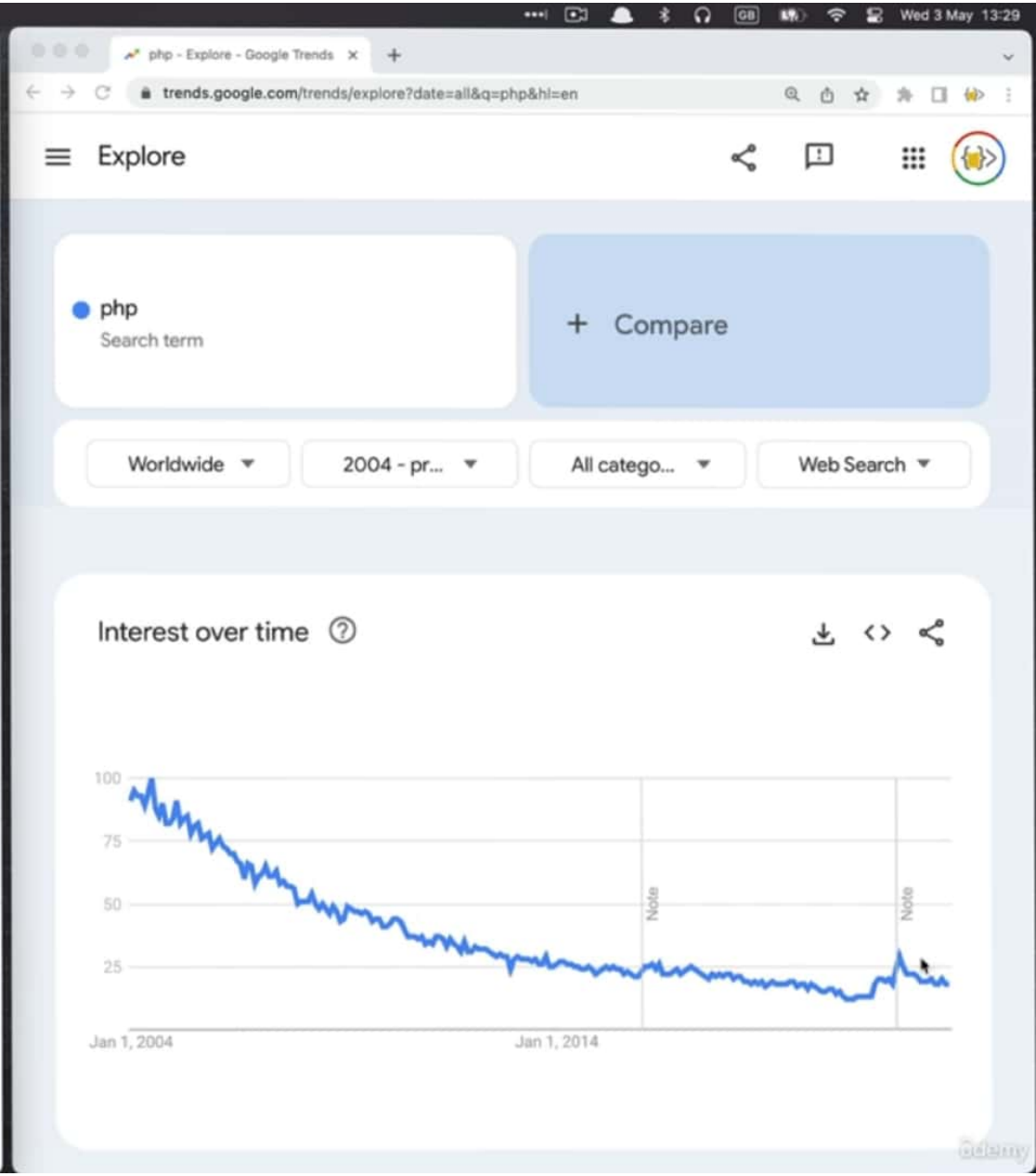
Note
Jan 1, 2004
Nov 1, 2013


Wed 3 May 13:29
php - Explore - Google Trends
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Explore
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Search term
+ Compare
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All catego...
Web Search
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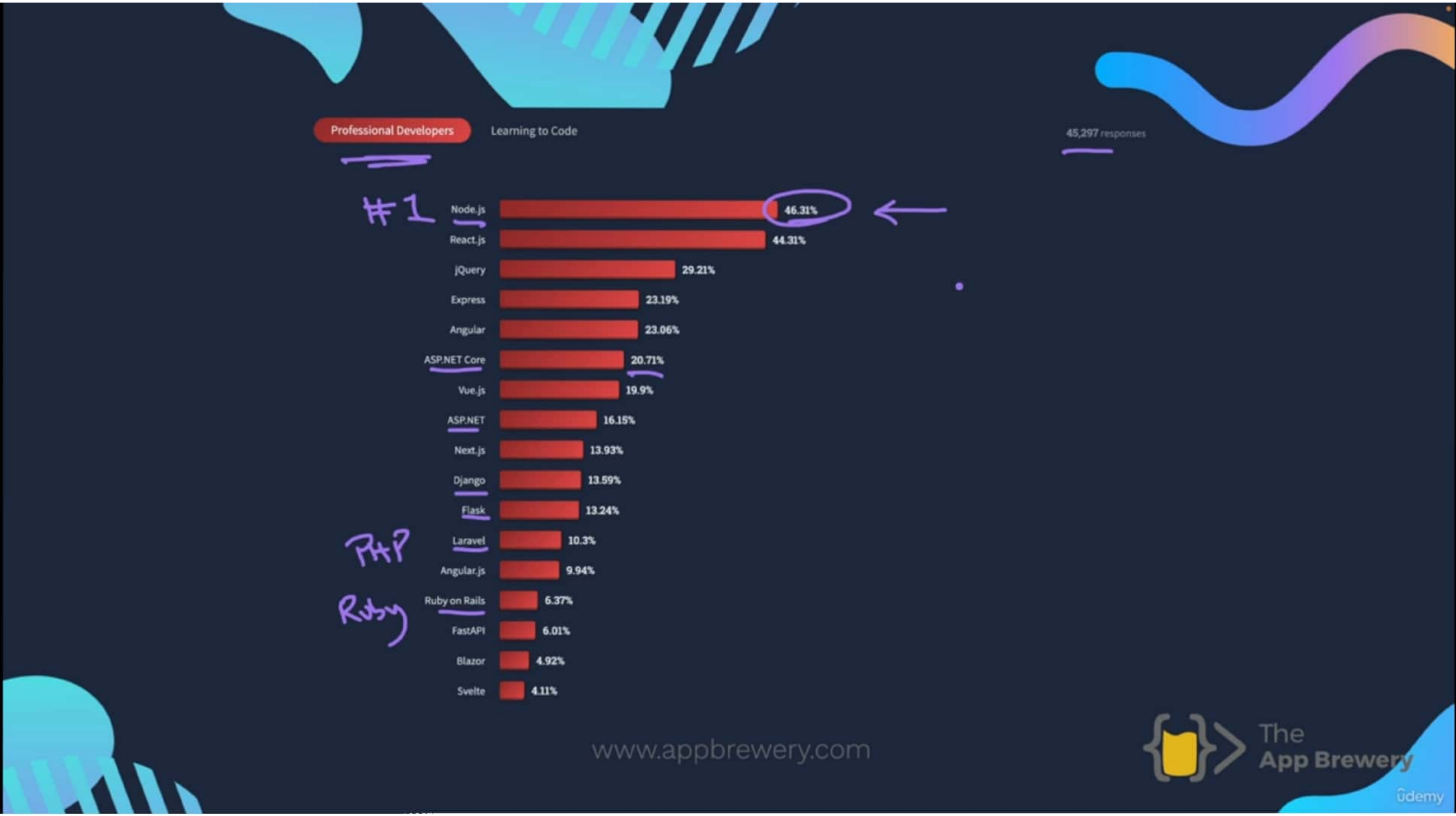
100
75
50
25
Note
Note
Jan 1, 2004
Jan 1, 2014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Vue.js 19.9%
ASP.NET 16.15%
Next.js 13.93%
Django 13.59%
Flask 13.24%
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Laravel 10.3%
Angular.js 9.94%
Ruby
Ruby on Rails 6.37%
FastAPI 6.01%
Blazor 4.92%
Svelte 4.11%
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