The Power of JAMstack with Nuxt and static sites

Debbie O'Brien

Frontend Tech Lead
@Patterson Agency in Mallorca

Mentor @OpenClassrooms
Tech Degree Moderator @Treehouse
Contributor @webpack
Writer @Ultimate Courses
Teacher @Vue School

debs_obrien

What I will Cover

What is JAMstack?

Why should I use it?

Examples of JAMstack

Serverless functions

Frontend Forms

How the Backend works

Wordpress,

Php,

Ruby,

Java,

.Net

……

What if the Frontend was King

Frontend - high performance

API's - Fast Functionality

MicroServices - Full Flexibility

The new Frontend has super powers

Modern Architecture

What is JAMstack?

What has changed

Access data through Api's
Everything is pre-rendered
No Execution at request time
Functionality client-side

What we gain

Improves security
Improves performance
Better developer experience
Easy deployment

Definition of Static

lacking in movement, action, or change, especially in an undesirable or uninteresting way
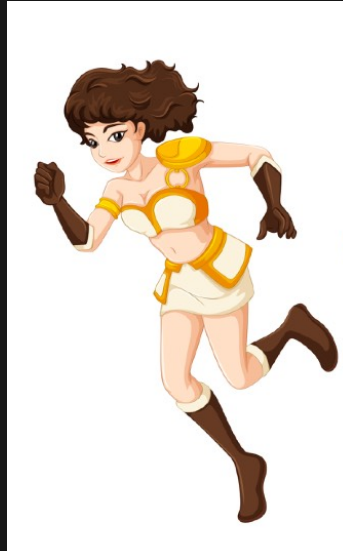
TaeKwonDo

Static

Dynamic

Static is the new Dynamic

The static site just goes to the cdn and delivers it back to the user

Static Site Generators

Nuxt, Gatsby, Gridsome, Eleven.ty

Hydration

Did you say Hydration?

TaeKwonDo

and Static Sites

That's a lot of Generation

with Static Sites

What about api key

Serverless to the rescue

Going Serverless

Events, webhooks, microservices and apis

Netlify

Deploying made easy

debbiecodes

- **https://debbie.codes**

Deploys from GitHub. Last published on Sep 8.

⚙ Site settings   ⚙ Domain settings

Production deploys ›

Production: master@46c0bba   **Published**
Sep 8: adding serverless to site ›

Production: master@e505a3f
Sep 8: toml file for local ›

Production: master@9d5c416
Sep 8: toml file for local ›

Production: master@99fae36
Sep 8: hello function ›

Deploy Previews

Auto-preview your PR or branch

Every time you open a pull request, or push new changes to a branch, Netlify automatically builds a preview with a unique URL. Like a staging environment for every PR or branch, previews are perfect for testing and collaboration.

Learn more about Deploy Previews ↗

Deploy summary

ℹ 31 new files uploaded
13 generated pages and 18 assets changed.

ℹ No redirect rules processed
This deploy did not include any redirect rules. Learn more about redirects.

ℹ No header rules processed
This deploy did not include any header rules. Learn more about headers.

ℹ All linked resources are secure
Congratulations! No insecure mixed content found in your files.

Deploy log

Preview   Copy to clipboard   ↑   ↓

```
11:03:32 PM: Build ready to start
11:03:34 PM: build-image version: 9e0f207a27642d0115b1ca97cd5e8cebbe492f63
11:03:34 PM: build-image tag: v3.3.2
11:03:34 PM: buildbot version: c78d626072f493c5e920f1da6e930a88f3a7d230
11:03:34 PM: Fetching cached dependencies
11:03:34 PM: Starting to download cache of 136.2MB
11:03:35 PM: Finished downloading cache in 717.052409ms
11:03:35 PM: Starting to extract cache
11:03:40 PM: Finished extracting cache in 5.341203997s
11:03:40 PM: Finished fetching cache in 6.111254917s
11:03:40 PM: Starting to prepare the repo for build
11:03:41 PM: Preparing Git Reference refs/heads/master
11:03:41 PM: Found netlify.toml. Overriding site configuration
11:03:41 PM: Different build command detected, going to use the one specified in the toml file: 'yarn prod' versus 'yarn generate'
in the site
11:03:41 PM: Different functions path detected, going to use the one specified in the toml file: 'lambda' versus './functions' in
the site
```

Deploy summary

ⓘ **31 new files uploaded**   ⌄
   13 generated pages and 18 assets changed.

ⓘ **No redirect rules processed**
   This deploy did not include any redirect rules. Learn more about redirects.

ⓘ **No header rules processed**
   This deploy did not include any header rules. Learn more about headers.

ⓘ **All linked resources are secure**
   Congratulations! No insecure mixed content found in your files.

Deploy log   Preview   Copy to clipboard   ↑   ↓

```
11:03:32 PM: Build ready to start
11:03:34 PM: build-image version: 9e0f207a27642d0115b1ca97cd5e8cebbe492f63
11:03:34 PM: build-image tag: v3.3.2
11:03:34 PM: buildbot version: c78d626072f493c5e920f1da6e930a88f3a7d230
11:03:34 PM: Fetching cached dependencies
11:03:34 PM: Starting to download cache of 136.2MB
11:03:35 PM: Finished downloading cache in 717.052409ms
11:03:35 PM: Starting to extract cache
11:03:40 PM: Finished extracting cache in 5.341203997s
11:03:40 PM: Finished fetching cache in 6.111254917s
11:03:40 PM: Starting to prepare the repo for build
11:03:41 PM: Preparing Git Reference refs/heads/master
11:03:41 PM: Found netlify.toml. Overriding site configuration
11:03:41 PM: Different build command detected, going to use the one specified in the toml file: 'yarn prod' versus 'yarn generate'
in the site
11:03:41 PM: Different functions path detected, going to use the one specified in the toml file: 'lambda' versus './functions' in
the site
```

Netlify Forms

Super easy forms all in the frontend

```html
<form name="contact" method="POST" data-netlify="true">
  <p>
    <label>Your Name: <input type="text" name="name" /></label>
  </p>
  <p>
    <label>Your Email: <input type="email" name="email" /></label>
  </p>
  <p>
    <label>Your Role: <select name="role[]" multiple>
      <option value="leader">Leader</option>
      <option value="follower">Follower</option>
    </select></label>
  </p>
  <p>
    <label>Message: <textarea name="message"></textarea></label>
  </p>
  <p>
    <button type="submit">Send</button>
  </p>
</form>
```

```html
<form name="contact" method="POST" netlify-honeypot="bot-field" data-netlify="true"
  <p class="hidden">
    <label>Don't fill this out if you're human: <input name="bot-field" /></label>
  </p>
  <p>
    <label>Email: <input type="text" name="email" /></label>
  </p>
  <p>
    <label>Message: <textarea name="message"></textarea></label>
  </p>
  <p>
    <button type="submit">Send</button>
  </p>
</form>
```

```html
<form name="contact" method="POST" data-netlify-recaptcha="true" data-netlify="true"
  <p>
    <label>Email: <input type="text" name="name" /></label>
  </p>
  <p>
    <label>Message: <textarea name="message"></textarea></label>
  </p>
  <div data-netlify-recaptcha="true"></div>
  <p>
    <button type="submit">Send</button>
  </p>
</form>
```

Contact Me

Hi send me a message if you want to get in touch

Your Name:

Your Email:

Message:

Send

< Forms

Submissions from contact

5 verified submissions. Last submission on Sep 8 (2 days ago).

Extra spam prevention enabled via reCAPTCHA 2 and honeypot field.

Learn more about form handling in the docs ↗

Download as CSV

Verified submissions ⌄

Delete   Mark as spam   Expand all

☐ ddd   Sep 8 ⌄

☐ ss   Sep 8 ⌄

☐   Sep 8 ⌄

☐ ggiiii   Sep 8 ⌄

☐ ffffff   Sep 8 ⌄

Netlify

Netlify Serverless Functions give you super powers

```javascript
exports.handler = function(event, context, callback) {
    callback(null, {
    statusCode: 200,
    body: "Hello, World"
    });
}
```

```
<template>
  <div>
    <h1>Serverless</h1>


    <p class="mt-10">
      {{ hello }}
    </p>
  </div>
</template>
<script>
import axios from 'axios'
export default {
  async asyncData() {
    const { data } = await axios.get(
      'https://debbie.codes/.netlify/functions/hello'
    )

    return { hello: data }
  },
}
</script>
```

Serverless

Hello from Lambda

Functions

Functions Level 0

3 Lambda functions actively running in **production**.

Learn more about Functions in the docs ↗

⚙ **Settings and usage**

🔍 Search by branch or Deploy Preview number

hello.js
Created on Sep 8 (2 days ago)
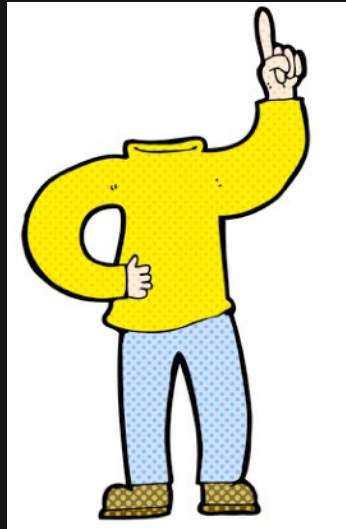
What kind of Services

Assets: Cloudinary

Commerce: Stripe, snip cart

Identity: AuthO, OAuth

What about content

Let's go headless

Benefits of Headless

Frontend Separation

Separate Hosting

Total control over User Experience

Headless in Action

Who is building Static Sites?

Documentation sites
Blogging Sites
E commerce Sites

SMASHING
MAGAZINE

Articles
Design & development

Books
Physical & digital books

Events
Conferences & workshops

Jobs
Find work & employees

Membership
Webinars & early-birds

🔍 Topics

Don't Miss These Latest Articles

Seriously, red?

Rachel Andrew *wrote*

Smashing Magazine Is Thirteen! 💬 2 comments

Events 72

Andrew Clarke *wrote*

Inspired Design Decisions: Alexey Brodovitch 💬 1 comment
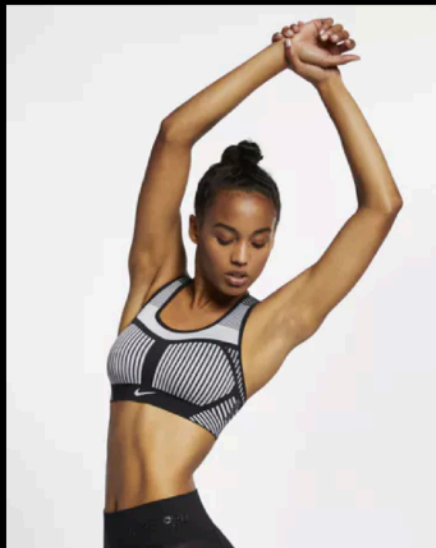
Design 421   # Performance 108   # Optimization 62

Picked by women, for women. The Essentials Shop lets you sort by your sport to find everything you'll need to live your crazy dream.

One Luxe

Women's Tights

$90

Epic React Flyknit 2

Women's Running Shoe

$150

FE/NOM Flyknit

Women's Sport Bra

$80

Metcon Flyknit 3

Women's Training Shoe

$150

NORDSTROM

Search   Sign In

Designer   Women   Men   Kids   Home & Gifts   Beauty   Sale   St

Home / Men / Clothing

Category —

Clothing

Activewear

Blazers & Sport Coats

Coats & Jackets

Dress Shirts

Jeans

Lounge & Pajamas

Pants

Polo Shirts

Shirts

Shorts

Suits & Separates

Sweaters

Sweatshirts & Hoodies
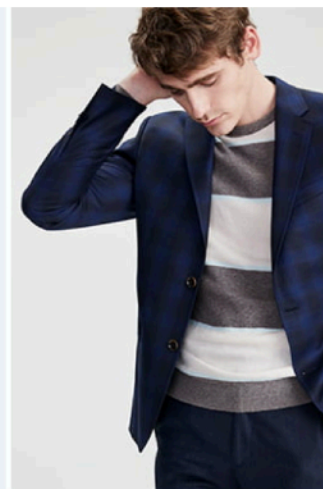
Shirts

Coats & Jackets

Jeans

Blazers & Sport Coats

Men's Clothing

12587 items

Sort by featured

MOISTURIZERS   SERUMS   EYE CARE   NECK CARE   TREATMENTS

New Arrival

NEW SD Advanced™ PLUS Intensive Moisturizing Concentrate

Our #1 wrinkle-fighting moisturizer, now upgraded

$79.00 ★★★★★

ADD TO CART

Advanced Retinol Intensive Night Moisturizer

Supports the four essential building blocks of visibly healthy skin

$112.00 ★★★★★

ADD TO CART

Tightening & Sculpting Face Cream

Visibly plumps, lifts and firms to rejuvenate facial contours

$95.00 ★★★★★

ADD TO CART

Multi-Action Restorative Cream

Targets the 12 key signs of aging

$95.00 ★★★★★

ADD TO CART

Help

Skyline Ivy

Special Sale

Lorem ipsum dolor sit amet consectetur adipisicing elit. Veniam libero iusto nemo laboriosam perferendis voluptas ullam officiis, quibusdam quas quam eveniet est fugit delectus corporis incidunt nam esse suscipit itaque?

Desi Avramovitz

★★★☆☆

$50.40

View Item >

Addy Alldre

★★★★☆

$33.99

View Item >

Bernie Gledhill

★★★☆☆

$102.99

View Item >

Filter by Price:

Max Price **$200**

$0 $200

Your Cart

Product	Price	Quantity	Total
Armin Basilio	$20.99	1	$20.99

Please enter your payment details:

EMAIL

name@example.com

CREDIT CARD

Test using this credit card: 4242 4242 4242 4242, and enter any 5 digits for the zip code

Card number   MM / YY CVC

Pay with credit card

Subtotal:	$20.99
Shipping:	Free Shipping
Total:	$20.99

JAMstack - Do we need it?

Hell yeah!