

JAMSTACK



0.1.

JAMSTACK



0.2.

JAMSTACK



0.3

bweb.studio

Бондаренко Юрий ^

1 bndby

noreply@bnd.by 

Miniq
VITEBSK

JAMSTACK

ΒΓΙΕ ΡΕΔ

Β

ΓΙΡΟΥΛΑΟΣ

0.0.

JAM STACK

СПЕЦИФИКА
ДОКЛАДА —

НЕКОТОРЫЕ ВЕЩИ

БУДУТ

НАОБОРОТ

0.1.

JAM STACK

ПЕРВОЕ НАОБОРОТ —
НАЗВАНИЕ

ВПЕРЕД

В

ПРОШЛОЕ

0.2.

JAMSTACK

ВТОРОЕ НАОБОРОТ —

ПРИЗ БУДЕТ

ПРИСУЖДЁН ЗА

ОТВЕТЬ||

А НЕ ЗА ВОПРОСЫ.

0.3.

JAM STACK

ВОПРОС

МАРКА АВТОМОБИЛЯ
ИЗ ФИЛЬМА
«НАЗАД В БУДУЩЕЕ»
?

0.3.1.

JAMSTACK

ТРЕТЬЕ НАОБОРОТ —

НИЧЕГО

НОВОГО

ВСЕМ ТЕХНОЛОГИЯМ

ПО 25 ЛЕТ

0.4.

JAM STACK

КРАТКИЙ ЭКСКУРС
В ПРОШЛОЕ

КОРНИ

JAM STACK

1.1.

JAM STACK

НОЯБРЬ 1995 г.

ПРИНИМАЕТСЯ СТАНДАРТ

HTML

2.0

1.2. v2

JAMSTACK

HTML 2.0 – ПЕРВЫЙ СТАНДАРТ

В НЁМ ВВЕЛИ ТЕГИ

<FORM> <INPUT> ...



JAMSTACK

САЙТЫ НАЧИНАЮТ
ДЕЛИТЬСЯ НА

СТАТИЧНЫЕ и
ДИНАМИЧНЫЕ

JAMSTACK

ДЕКАБРЬ 1995 г.

ПЕРВАЯ РЕАЛИЗАЦИЯ

JAVASCRIPT

1.4.

JAM STACK

ВОПРОС

КОГДА БЫЛ
ПРИНЯТ СТАНДАРТ

CSS 1?

JAMSTACK

СТЕК

НАБОР ТЕХНОЛОГИЙ
ДЛЯ РАЗРАБОТКИ
САЙТОВ

2.1. v2.

JAMSTACK

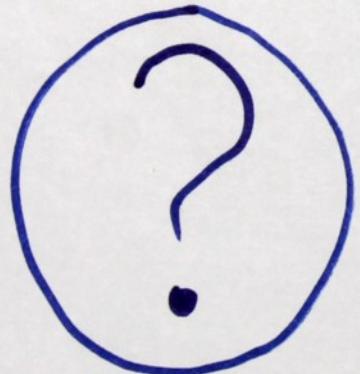
ПРИМЕРЫ СТЕКОВ :

LAMP

LINUX
MYSQL
APACHE
PHP

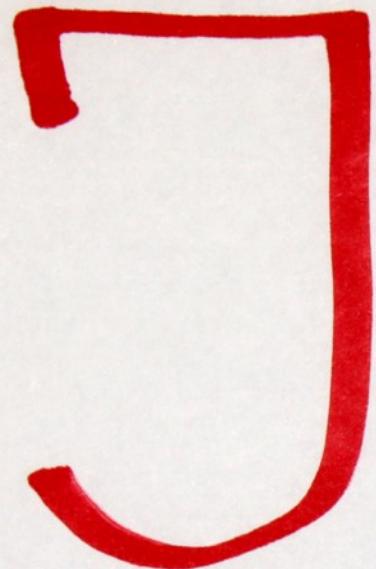
MEAN

MONGODB
ANGULAR
EXPRESS.JS
NGINX



ЕЩЁ ?

2.2.



JAVASCRIPT

ВСЯ ДИНАМИКА

НА КЛИЕНТЕ

С ПОМОЩЬЮ

ФРЕЙМВОРКОВ , БИБЛИОТЕК

ИЛИ НА ЧИСТОМ JS

JAM STACK

A

API

ВСЕ ДАННЫЕ
БД / ФАЙЛЫ ...

АБСТРАГИРУЮТСЯ

В API С ДОСТУПОМ JS +

HTTPS

2.3.2.



MARKUP

ДАННЫЕ API
ПОМЕЩАЮТСЯ
В РАЗМЕТКУ

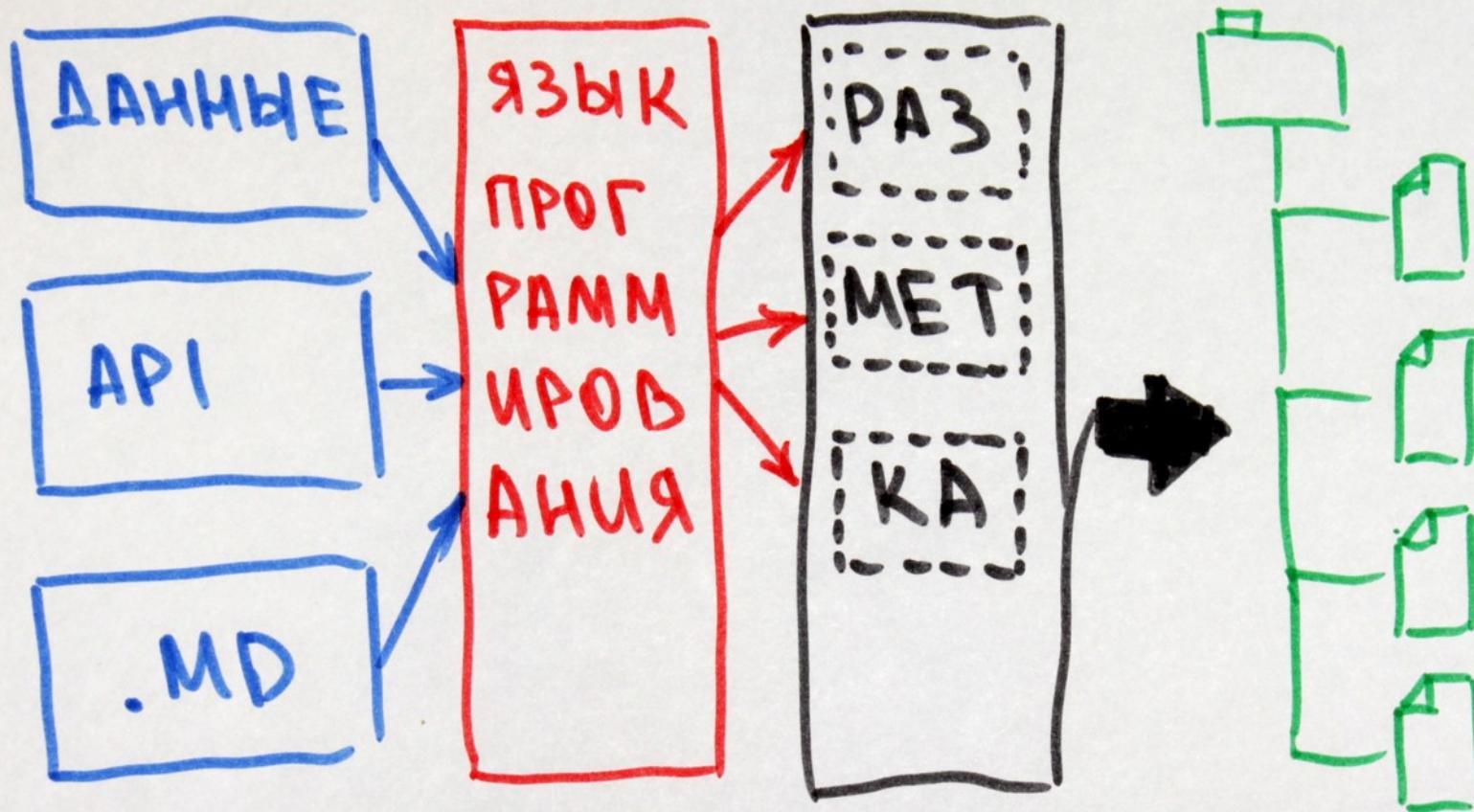
И ПРЕДВАРИТЕЛЬНО
КОМПИЛИРУЮТСЯ

ВОПРОС

ЛОГОТИП КАКОЙ
ОРГАНИЗАЦИИ НАРИСОВАН
НА ПРЕДЫДУЩЕМ СЛАЙДЕ

?

JAN STACK



API

JS

MARKUP

СТАТИЧНЫЙ
САЙТ

JAM STACK

ПРЕИМУЩЕСТВА ПРОИЗВОДИТЕЛЬНОСТЬ



PERFORMANCE



A11Y



BEST
PRACTICES



SEO



miniq.netlify.com

3.1. v2

JAM STACK

МЕТРИКИ PERFORMANCE

- КОЛ-ВО И РАЗМЕР РЕСУРСОВ
- СТОРОННИЕ РЕСУРСЫ
- МИНИФИКАЦИЯ
- СЖАТИЕ
- КЕШИРОВАНИЕ
- ВРЕМЯ РАБОТЫ JS

МЕТРИКИ

BEST PRACTICES

- КЕШ
- HTTPS
- HTTP/2



- ГЕОЛОКАЦИЯ
- УВЕДОМЛЕНИЯ
- СТАРЫЕ API
- ОШИБКИ
- PLUGINS

JAM STACK

МЕТРИКИ SEO

- VIEWPORT
- TITLE
- HTTP CODE
- HREFLANG
- ROBOTS.TXT
- IMG ALT =
- REL = CANONICAL
- РАЗМЕР ШРИФТА
- РАЗМЕР ТАК
ЭЛЕМЕНТОВ



ВОПРОС

ИЗ КАКОГО ФИЛЬМА
ВЗЯТА ФРАЗА С
ПРЕДЫДУЩЕГО СЛАЙДА

?

JAM STACK

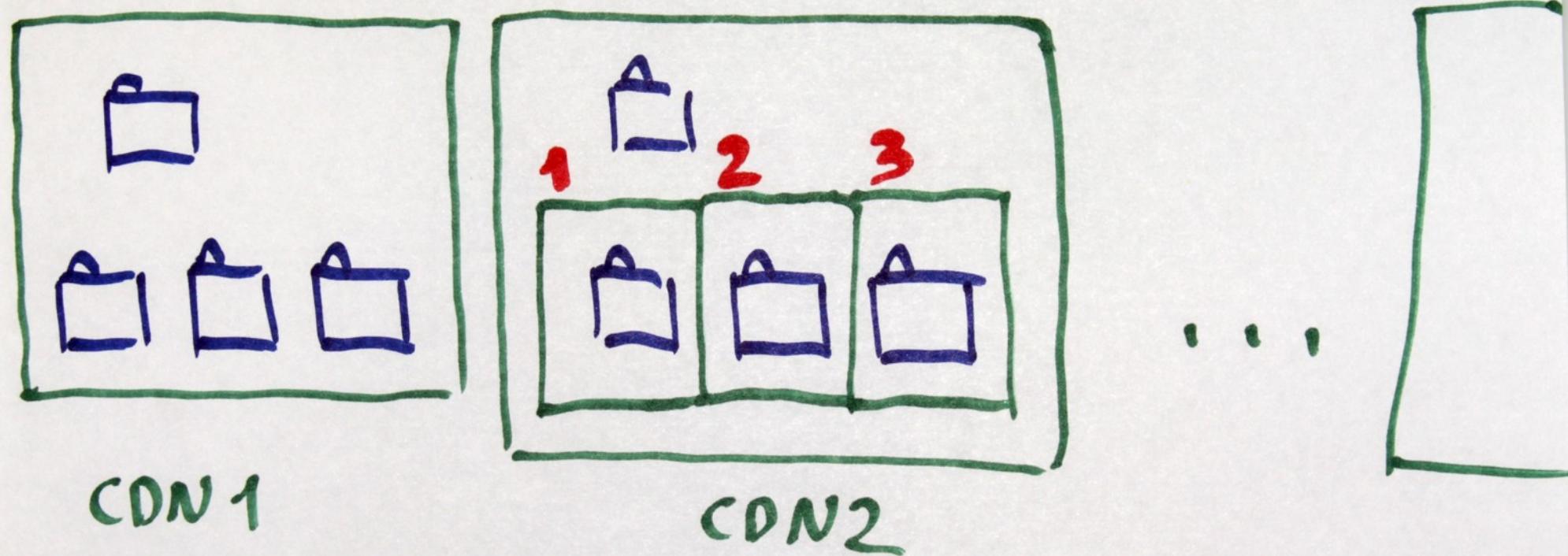
ПРЕИМУЩЕСТВА

— БЕЗОПАСНОСТЬ

САЙТ СТАТИЧНЫЙ —

ЛОМАТЬ НЕЧЕГО

ПРЕИМУЩЕСТВА МАСШТАБИРОВАНИЕ



УДОСТАВКА

НЕДОСТАТКИ

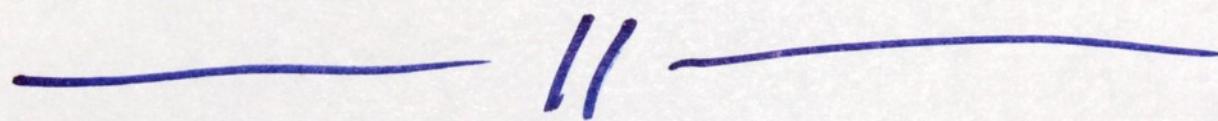
ПОМОШЬ ЗАЛА !



4.1.

JAMSTACK

BEST PRACTICES



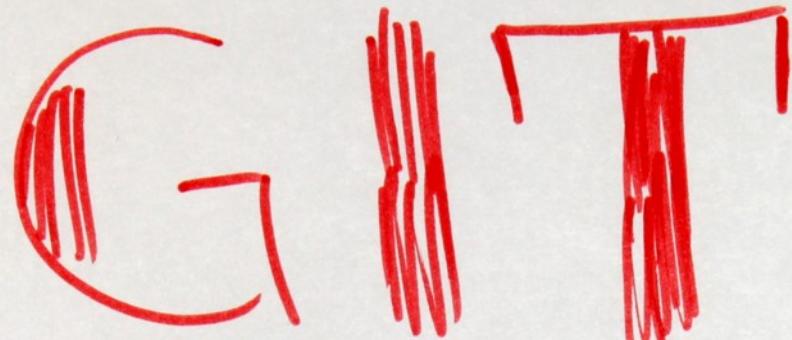
JAMSTACK

CDN

ВЕСЬ ПРОЕКТ СТАТИЧЕН
И РАЗМЕЩЕН В ОБЛАКЕ



JAM STACK



ВЕСЬ КОД — В РЕПОЗИТОРИИ.
НИКАКИХ БД, СЛОЖНЫХ
УСТАНОВОК ИЛИ
РАЗВЁРТЫВАНИЙ

JAMSTACK

АВТОМАТИЧЕСКАЯ СБОРКА

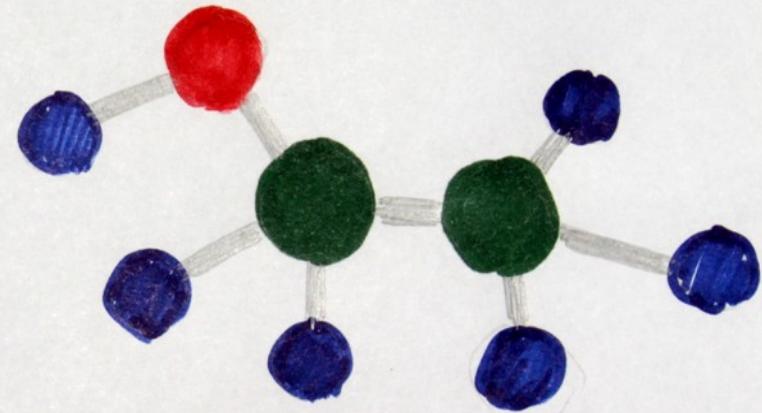
- Gulp
- Webpack
- ...



5.4. v2

JAMSTACK

АТОМАРНЫЙ
ДЕПЛОЙ
И
МГНОВЕННАЯ
ИНВАЛИДАЦИЯ КЕША



ВОПРОС

« В ПРОГРАММИРОВАНИИ
ЕСТЬ ДВЕ СЛОЖНОСТИ:
ИНВАЛИДАЦИЯ КЕША И
... >>

— Фил КАРЛТОН

ПРИМЕР

11ty.io //

Eleventy

Netlify: All-in-one platform for automating modern web projects. - Chromium
JAMstack | JavaScript, APIs, x | Overview | laughing-kare-b03 x | Netlify: All-in-one platform for x +
www.netlify.com
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New! The first O'Reilly report on the JAMstack. Get the free eBook →

 netlify Products Pricing Docs Customers Blog Q Contact sales Log in Sign up →

One workflow. From local development to global deployment.

Netlify is everything you need to build fast, modern websites:
continuous deployment, serverless functions, and so much more.

Get started for free



netlify.com

More than 500,000 developers and businesses trust Netlify

StaticGen | Top Open Source Static Site Generators - Chromium
JAMstack | JavaScript, APIs, etc. x StaticGen | Top Open Source x +

staticgen.com

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Learn more about the JAMstack at [JAMstack Conf in San Francisco](#) - 16-18 October, 2019

StaticGen

A List of Static Site Generators for JAMstack Sites

Выisburyаем ГЕНЕРАТОРЫ

About Contribute About JAMstack Need a Static CMS?

Filter

Any Language Any Template Any License

Sort

Repo stars

Next.js	Jekyll	Hugo	
<p>★ 39303 ① 271 ⚡ 4811 N/A +14279 +20 +2440</p> <p>A framework for statically-exported React apps (supports server side rendering)</p>	<p>★ 38245 ① 140 ⚡ 8336 6858 +4056 +20 +801 +535</p> <p>A simple, blog-aware, static site generator.</p> <p>Languages: Ruby Templates: Liquid</p>	<p>★ 36867 ① 378 ⚡ 4118 7338 +11412 +122 +1024 +3696</p> <p>A Fast and Flexible Static Site Generator.</p> <p>Languages: Go Templates: Go</p>	<p>Get started with one click!</p> <p>For generators with the "Deploy to Netlify" button, you can deploy a new site from a template with one click. Get HTTPS, continuous delivery, and bring a custom domain, free of charge.</p>

<https://www.staticgen.com/hugo>

Learn more about the JAMstack at JAMstack Conf in San Francisco - 16-18 October, 2019							
Deploy to Netlify							
<h3>Docpad</h3> <p> ★ 2992 ① 24 Ψ 251 🐦 N/A +27 -163 </p> <p>Feature rich, configurable and language agnostic.</p> <p>Languages: CoffeeScript</p> <p>Templates: Eco, Any JS</p> <p>License: MIT</p>	<h3>HubPress</h3> <p> ★ 2844 ① 87 Ψ 2994 🐦 301 +50 -4 -106 +1 </p> <p>A web application to build your Blog on GitHub.</p> <p>Languages: JavaScript</p> <p>Templates: Handlebars</p> <p>License: MIT</p>	<h3>Sapper.js</h3> <p> ★ 2747 ① 207 Ψ 137 🐦 N/A +1956 +153 +100 </p> <p>Sapper is a framework for building high-performance universal web apps.</p> <p>Languages: JavaScript</p> <p>Templates: Svelte</p> <p>License: MIT</p>	<h3>Eleventy</h3> <p> ★ 2732 ① 77 Ψ 86 🐦 1714 +2240 +67 +72 +1591 </p> <p>A simpler static site generator</p> <p>Languages: JavaScript</p> <p>Templates: Liquid, Nunjucks, Handlebars, Mustache, EJS, Haml, Pug, JavaScript, HTML, Markdown</p> <p>License: MIT</p>				
<h3>Sphinx</h3> <p> ★ 2706 ① 672 Ψ 1074 🐦 N/A https://www.staticgen.com/sapperjs </p>	<h3>mdBook</h3> <p> ★ 2256 ① 169 Ψ 320 🐦 N/A +1193 +47 +151 </p>	<h3>Zola</h3> <p> ★ 2140 ① 63 Ψ 197 🐦 N/A +830 +23 +79 </p>	<h3>Hakyll</h3> <p> ★ 1996 ① 106 Ψ 344 🐦 N/A +234 +26 +20 </p>				

ЭТОТ

Welcome to Netlify! Get your site in 1 min. | Netlify - Chromium

JAMstack | JavaScript, APIs, ... x Welcome to Netlify! Get your x Netlify: All-in-one platform for x +

app.netlify.com/start/deploy?repository=https://github.com/11ty/eleventy-base-blog

Мои сервисы Работа Инструменты Г Пoчta Яндекс Google xsltdev.ru Games bnd.by admin Learn X in Y Min... Other bookmarks

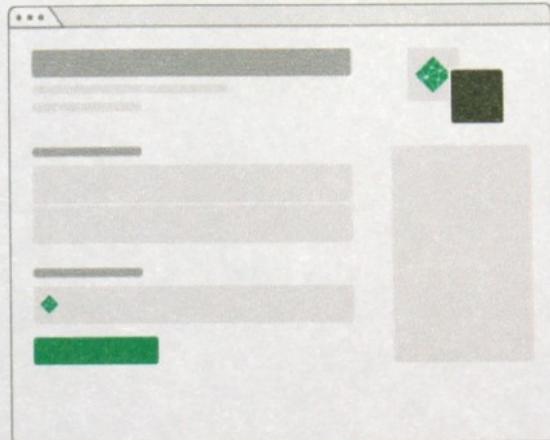
СОЗДАЕМ РЕПУ

Welcome to Netlify! Get your site in 1 min.

1 Connect to GitHub.
Connect Netlify to your GitHub account to create your `eleventy-base-blog` repository.

2 Configure your site.

3 Your site is live!
Just push your changes to GitHub and we'll automatically deploy them to our global CDN.



Connect to GitHub

Prefer a different provider? You can also [connect to GitLab](#).

Welcome to Netlify! Get your site in 1 min. | Netlify - Chromium

JAMstack | JavaScript, APIs, a x Welcome to Netlify! Get your x Netlify: All-in-one platform for x +

app.netlify.com/start/deploy?repository=https://github.com/11ty/eleventy-base-blog

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Welcome to Netlify!
Get your site in 1 min.

1 Connect to GitHub.
2 Configure your site.
3 Your site is live!

Repository name
eleventy-miniq

We'll create a repository in your GitHub account with this name.

Save & Deploy

ЧИЯ
РЕПЫ

Overview | laughing-kare-b03f3f - Chromium
app.netlify.com/sites/laughing-kare-b03f3f/overview

My services | Work | Tools | Mail | Yandex | Google | xsldev.ru | Games | bnd.by | admin | Learn X in Y Minutes... | Other bookmarks

Yura's team > laughing-kare-b03f3f

Overview Deploy Functions Identity Forms Large Media Split Testing Analytics Settings

laughing-kare-b03f3f

- Site deploy in progress

Deploys from GitHub. Created at 10:34 PM.

[Site settings](#) [Domain settings](#)

Install the new GitHub App

Restrict repository access and get rich deploy summaries in your pull requests.

[Install](#)

Getting started

ДЕПЛОЙ

- Deploying your site
- Set up a custom domain
- Secure your site with HTTPS

Netlify's robots are busy building and deploying your site to our CDN.

Buy a new domain or setup a domain you already own.

Your site is secured automatically with a Let's Encrypt certificate.

[Production deploys](#) > [Deploy Previews](#)

Domain management | Settings - Chromium

JAMstack | JavaScript, APIs, a x Domain management | Setti... eleventy-miniq/index.njk at n x +

app.netlify.com/sites/laughing-kare-b03f3f/settings/domain

Мои сервисы Работа Инструменты Г Почта Яндекс Google xsltdev.ru Games bnd.by admin Learn X in Y Min...

Other bookmarks

Last update at 18:30 UTC 2 minutes ago

НАСТРОЙКИ

Domains

Build & deploy

Domain management

Domains

HTTPS

Analytics

Functions

Identity

Forms

Large media

Access controls

Change domain

Branch subdomains require a custom domain

The site name determines the default URL for your site. Only alphanumeric characters and hyphens are allowed.

Site name

eleventy-miniq

https://eleventy-miniq.netlify.com

Save Cancel

This screenshot shows the Netlify Domain Management settings interface. On the left, there's a sidebar with various management options like Build & deploy, Domain management, and Analytics. The main area is titled 'Domains'. A central modal window is open, titled 'Change site name'. Inside the modal, it says: 'The site name determines the default URL for your site. Only alphanumeric characters and hyphens are allowed.' Below this is a text input field containing 'eleventy-miniq'. Underneath the input field, the URL 'https://eleventy-miniq.netlify.com' is displayed. At the bottom of the modal are two buttons: a green 'Save' button and a white 'Cancel' button. The background of the main page is dark, and the overall theme is clean and modern.

bndby/eleventy-miniq - Chromium

github.com/bndby/eleventy-miniq

My services Work Tools Mail Yandex Google xsldev.ru Games bnd.by admin Learn X in Y Min...

Pull requests Issues Marketplace Explore

bndby / eleventy-miniq

Unwatch 1 Star 0 Fork 0

Code Issues 0 Pull requests 0 Projects 0 Wiki Security Insights Settings

No description, website, or topics provided.

Manage topics

126 commits 1 branch 0 releases 9 contributors MIT

Branch: master New pull request Create new file Upload files Find file Clone or download

zachleat Updates syntaxhighlight plugin Latest commit eda708e on Sep 11

📁 .github	Create FUNDING.yml	4 months ago
📁 _11ty	Using deep data merge (post tag is inherited from posts/posts.json) a...	10 months ago
📁 _data	Using deep data merge (post tag is inherited from posts/posts.json) a...	10 months ago
📁 _includes	Using deep data merge (post tag is inherited from posts/posts.json) a...	10 months ago
📁 about	Upgrades to 0.4.0 and adds tag pages	last year
📁 css	Updates to 0.8.1	7 months ago
📁 feed	Use new eleventyExcludeFromCollections feature in 0.8.0: https://www....	7 months ago
📁 img	adding img dir to align with default eleventy.js settings and avoid e...	2 years ago
📁 posts	Using deep data merge (post tag is inherited from posts/posts.json) a...	10 months ago
📄 .editorconfig	Adds editorconfig for my own sanity.	2 years ago
📄 .eleventy.js	Merge pull request #25 from nick-novak/master	9 months ago

github.com/.../496982355eaf654d3ab3805c0b6640aca3286186 to list all valid tags

HAША РЕПА

eleventy-miniq/index.njk at master · bndby/eleventy-miniq · Chromium

JAMstack | JavaScript, APIs, a x Domain management | Setting x eleventy-miniq/index.njk at n x +

← → C 🔒 github.com/bndby/eleventy-miniq/blob/master/index.njk

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Other bookmarks

Pull requests Issues Marketplace Explore

bndby / eleventy-miniq

Code Issues Pull requests Projects Wiki Security Insights Settings

Branch: master eleventy-miniq / Index.njk Find file Copy path

zachleat Fix href on github pages 54d4d3a on Sep 30, 2018

2 contributors

14 lines (10 sloc) | 253 Bytes Raw Blame History

1 ---
2 layout: layouts/home.njk
3 tags:
4 - nav
5 navtitle: Home
6 ---
7
8 <h1>Latest 3 Posts</h1>
9
10 {% set postslist = collections.posts | head(-3) %}
11 {% include "postslist.njk" %}
12
13 <p>More posts can be found in the archive.</p>

ИСХОДНИК

© 2019 GitHub, Inc. Terms Privacy Security Status Help Contact GitHub Pricing API Training Blog About

Your Blog Name - Chromium

JAMstack | JavaScript, APIs, a x | Domain management | Setting x Your Blog Name x eleventy-miniq/index.njk at n x +

← → C ⌂ eleventy-miniq.netlify.com

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Your Blog Name Home About Archive

1. Edit the `_data/metadata.json` with your blog's information.
2. (Optional) Edit `.eleventy.js` with your configuration preferences.
3. Delete this message from `_includes/layouts/base.njk`.

This is an [Eleventy project](#) created from the [eleventy-base-blog repo](#).

Latest 3 Posts

03. [This is my fourth post.](#) 30 Sep 2018 SECOND-TAG

02. [This is my third post.](#) 24 Aug 2018 SECOND-TAG

01. [This is my second post.](#) 04 Jul 2018 NUMBER

More posts can be found in [the archive](#).

РЕЗУЛЬТАТ

Editing eleventy-miniq/index.njk at master · bndby/eleventy-miniq · Chromium

T JAMstack | JavaScript, APIs, a x | Domain management | Setti x | Your Blog Name x | Editing eleventy-miniq/index x +

← → C github.com/bndby/eleventy-miniq/edit/master/index.njk

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Pull requests Issues Marketplace Explore

bndby / eleventy-miniq

Code Issues 0 Pull requests 0 Projects 0 Wiki Security Insights Settings

eleventy-miniq / index.njk Cancel

Edit file Preview changes Spaces 2 No wrap

```
1 ---  
2 layout: layouts/home.njk  
3 tags:  
4   - nav  
5 navtitle: Главная  
6 ---  
7  
8 <h1>Три свежих записи</h1>  
9  
10 {% set postslist = collections.posts | head(-3) %}  
11 {% include "postslist.njk" %}  
12  
13 <p>Остальное - в <a href="{{ '/posts/' | url }}>архиве</a>.</p>  
14
```

ПРАВКИ

Deploys | eleventy-miniq - Chromium

JAMstack | JavaScript, APIs, a x Deploy | eleventy-miniq x Your Blog Name x eleventy-miniq/index.njk at n x +

← → C app.netlify.com/sites/eleventy-miniq/deploy

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Yura's team > eleventy-miniq

Overview Deploy Functions Identity Forms Large Media Site Test Analytics Settings

Deploys for eleventy-miniq

- <https://eleventy-miniq.netlify.com>

Deploys from github.com/bndby/eleventy-miniq, published master@HEAD.

Auto publishing is on. Deploys from master are published automatically.

[Deploy settings](#) [Notifications](#) [Stop auto publishing](#)

Search deploys

Production: master@90a73bc Building

Update index.njk

Production: master@HEAD Published

No deploy message

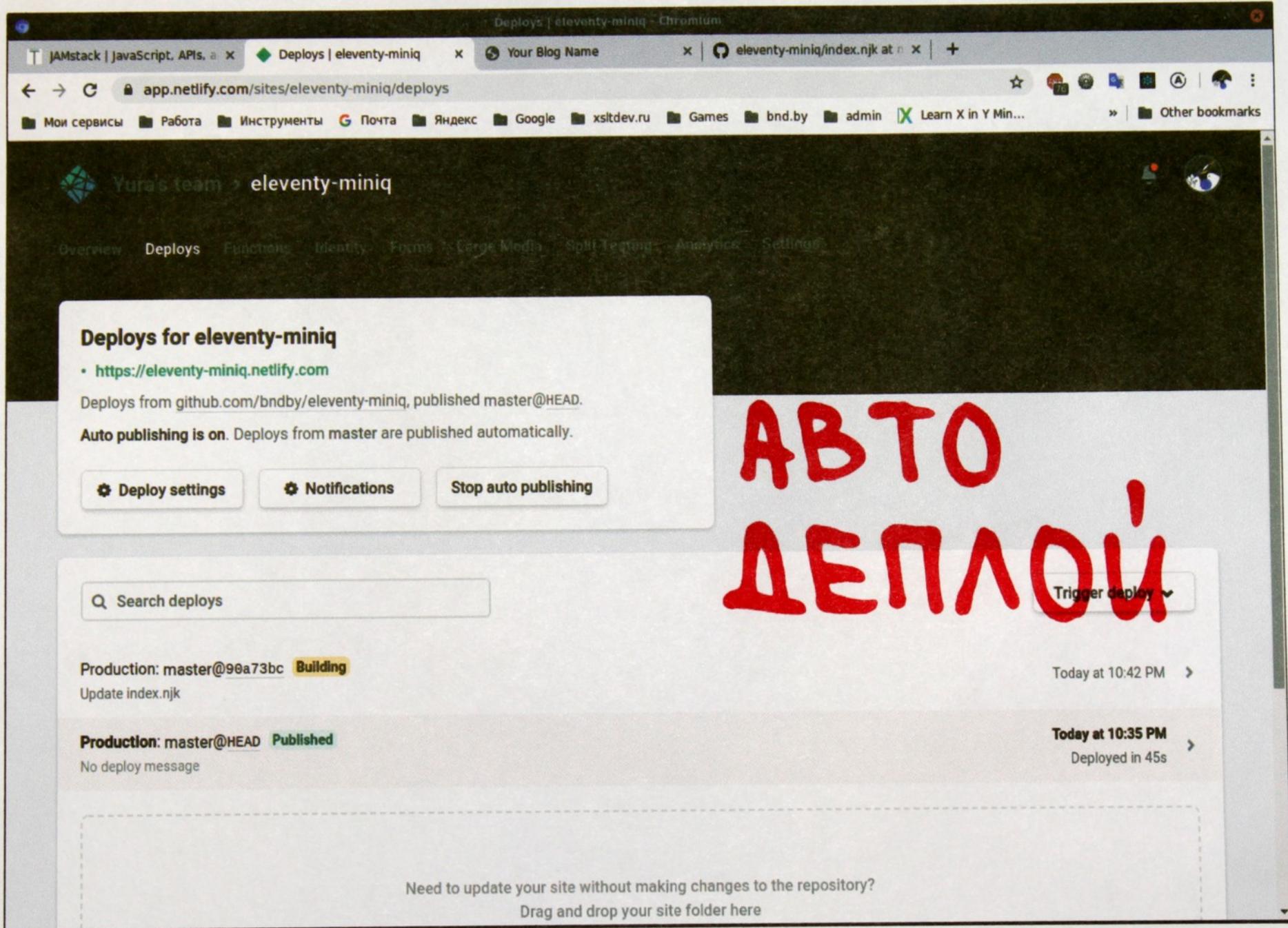
Trigger deploy

Today at 10:42 PM >

Today at 10:35 PM >

Deployed in 45s

Need to update your site without making changes to the repository?
Drag and drop your site folder here



Deploy details | eleventy-miniq - Chromium
JAMstack | JavaScript, APIs, a... Deploy details | eleventy-miniq Your Blog Name eleventy-miniq/index.njk at n... +
app.netlify.com/sites/eleventy-miniq/deploy/5dc07f0a4eed470008d4e26f
Мои сервисы Работа Инструменты Г Почта Яндекс Google xsltdev.ru Games bnd.by admin Learn X in Y Min... Other bookmarks

Deploy summary

- 13 new files uploaded
13 generated pages 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.
- Build time: 20s. Total deploy time: 22s
Build started at 10:42:04 PM and ended at 10:42:24 PM. [Learn more about build minutes.](#)

Deploy log

РЕЗУЛЬТАТ ДЕПЛОЯ

ЛОГИ

Preview Copy to clipboard ↑ ↓

```
10:42:02 PM: Build ready to start
10:42:04 PM: build image version: 9e0f207a27642d0115b1ca97ed5e8ccbhe492f63
10:42:04 PM: build-image tag: v3.3.2
10:42:04 PM: buildbot version: a2bab682ac9761baa4d123ebd00c57be933655dc
10:42:04 PM: Fetching cached dependencies
10:42:04 PM: Starting to download cache of 125.0MB
10:42:05 PM: Finished downloading cache in 733.99434ms
10:42:05 PM: Starting to extract cache
10:42:11 PM: Finished extracting cache in 6.59434ms
```

Your Blog Name - Chromium

JAMstack | JavaScript, APIs, a | Deploy details | eleventy-min | Your Blog Name | Your Blog Name | eleventy-min/index.njk at | +

← → C 🔒 eleventy-miniq.netlify.com

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Your Blog Name Главная Archive About

1. Edit the `_data/metadata.json` with your blog's information.
2. (Optional) Edit `.eleventy.js` with your configuration preferences.
3. Delete this message from `_includes/layouts/base.njk`.

This is an [Eleventy project created from the `eleventy-base-blog` repo.](#)

Три свежих записи

01. [This is my fourth post](#), 30 Sep 2018 HELLOWORLD

02. [This is my third post](#), 24 Aug 2018 SECOND-TAG

03. [This is my second post](#), 04 Jul 2018 NUMBER

Остальное - в [архиве](#).

**РЕЗУЛЬТАТ
ВТОРОГО
ДЕПЛОЯ**

JAM STACK

ПЕРЕНОСИМ
САЙТ

CMS => JAM

JAMSTACK

БЫЛО:

- CMS / PHP + MySQL
- Content / частично Markdown
- Front / Bootstrap 3/4 , UIKit
- Shared Hosting

Проблемы :

- ПЛАТНЫЙ ХОСТИНГ
- Безопасность
- СКОРОСТЬ
- СЛОЖНОСТЬ ПОДДЕРЖКИ И РАСШИРИЯЕМОСТИ
- РАЗРОЗНЕНИЙ КОНТЕНТ

ПЛАТНЫЙ ХОСТИНГ

Shared 3+ \$/мес

VPS 5+ \$/мес

Github 0 \$/мес

GitLab

BitBucket

JAMSTACK

БЕЗОПАСНОСТЬ

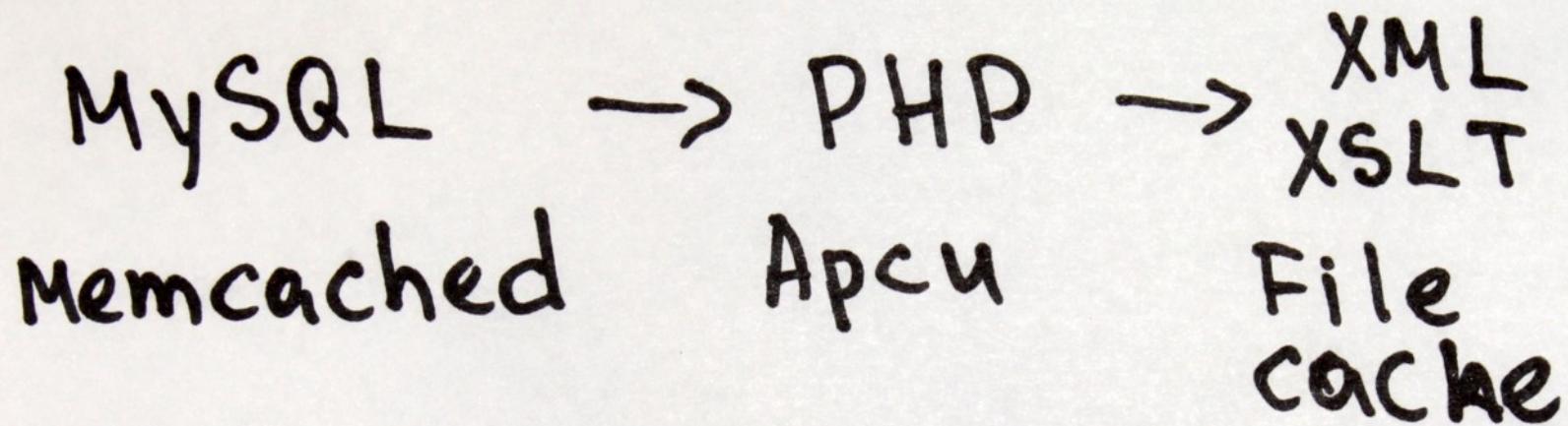
FTP , SSH , MySQL , ISPManager

Git

10.5.

JAM STACK

СКОРОСТЬ



CDN Files

JAMSTACK

СЛОЖНОСТЬ

- Datatype • Data Source
- Pages • Templates

ПАПКА + .MD - ФАЙЛЫ

JAMSTACK

КОНТЕНТ

- ИНПУТЫ
- ПОЛЯ
- TEXTAREA
- СВЯЗИ

ТЕКСТОВЫЙ

.MD ФАЙЛ

ЧЕГО ЛИШИЛСЯ:

- АДМИНКИ
- ПОИСКА
- FEEDBACK
- ИЗМЕНЕНИЙ "НА ЛЕТУ"

JAMSTACK

ДА , ДОВОЛЕН .

XSLTDEV.RU

THANKS for

Y and ★