

Modern Way of Building Websites with Jamstack Approach



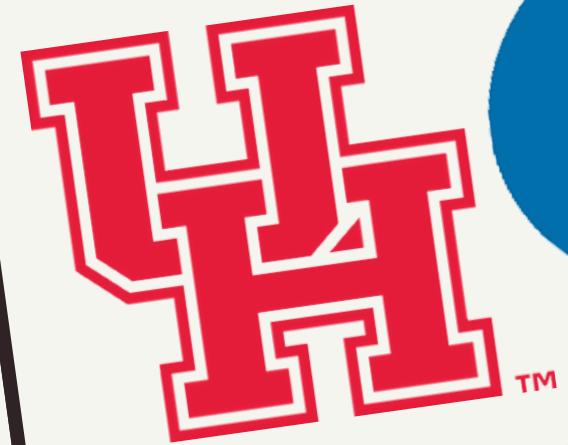
Tony Mamedbekov

Principal Sales Engineer @ Uniform
Solutions Architect
Software Engineer
Technical Consultant
University of Houston Alumn

Previous Experience:



uniform



<epam>

Chapter 04
Session 3

Step Up. Speak Up. Go Up



June 12th 10AM PST



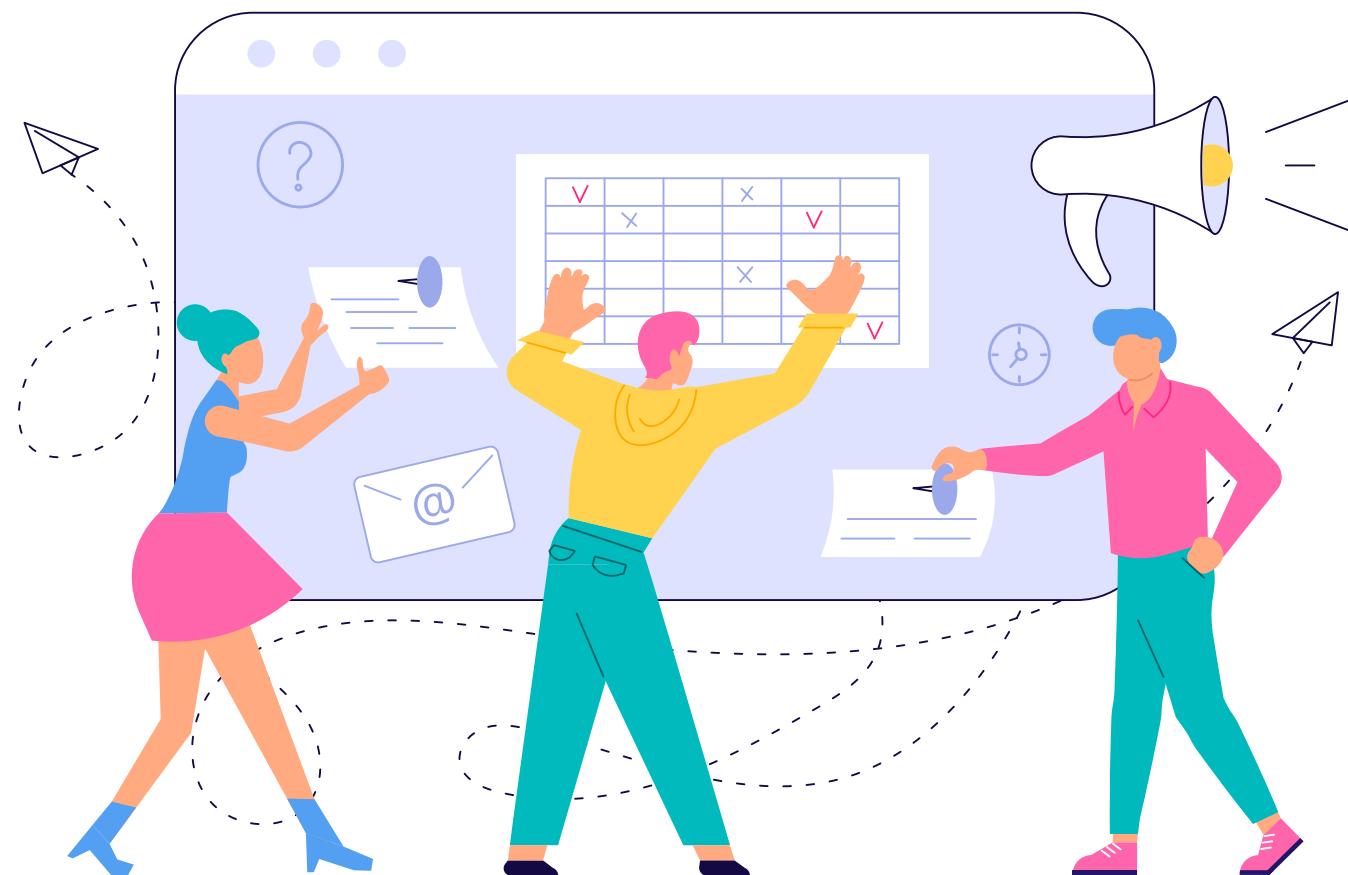
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Metabob

Agenda



- **10:00-10:10 | Kickoff**
 - Introduction
 - Chit Chat
- **10:10-11:10 | Presentation**
 - Speaker
- **11:10-11:15 | Break**
 - Pre Q&A
- **11:15-11:30 | Q&A**
 - Discussion
- **11:30-11:35 | Wrap Up**
 - Contact Speaker

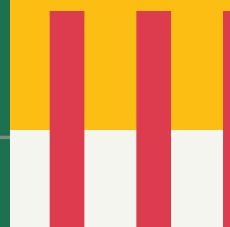
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Axel Lönnfors

Digital Marketing
Specialist | Community
Manager

*Enthusiastic sports fan originally from Finland,
passionate about technologies enhancing employee
productivity*



Chapter04

Session 03



GOUP

Community driven Open source accelerator!
<https://goupaz.com>

Metabob

It's the fast, easy, and visual way of
debugging code.

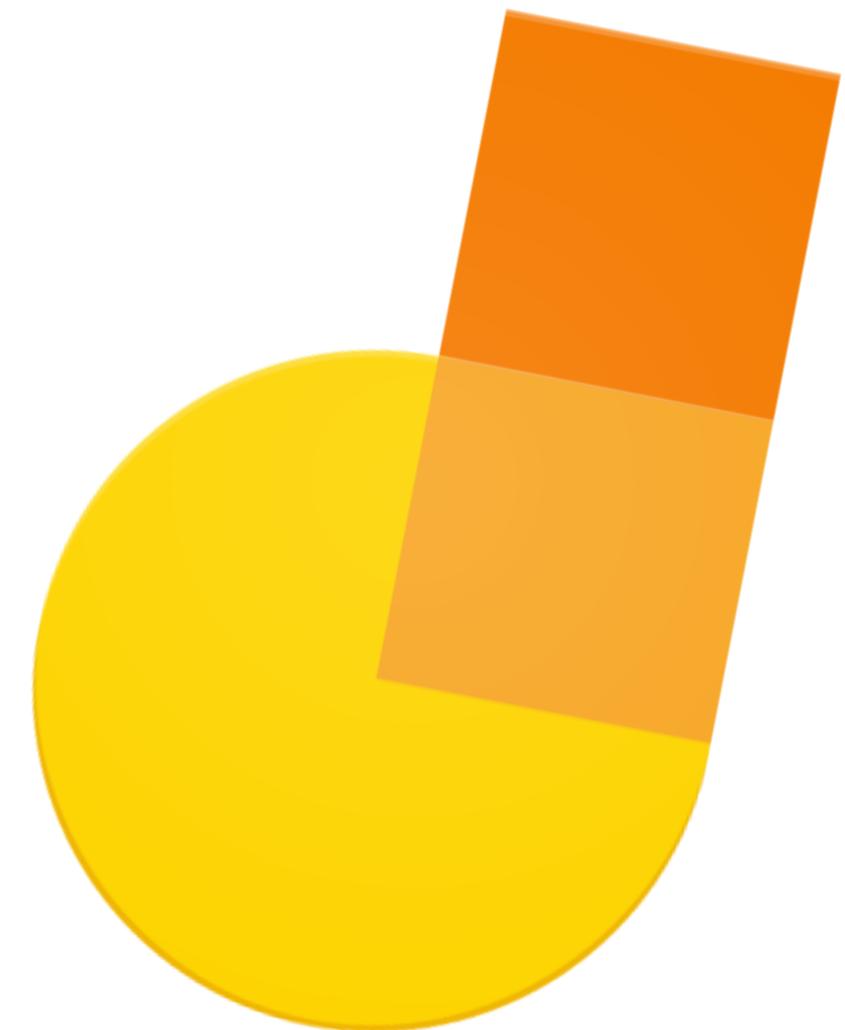
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Are you ready?

Let's Begin!

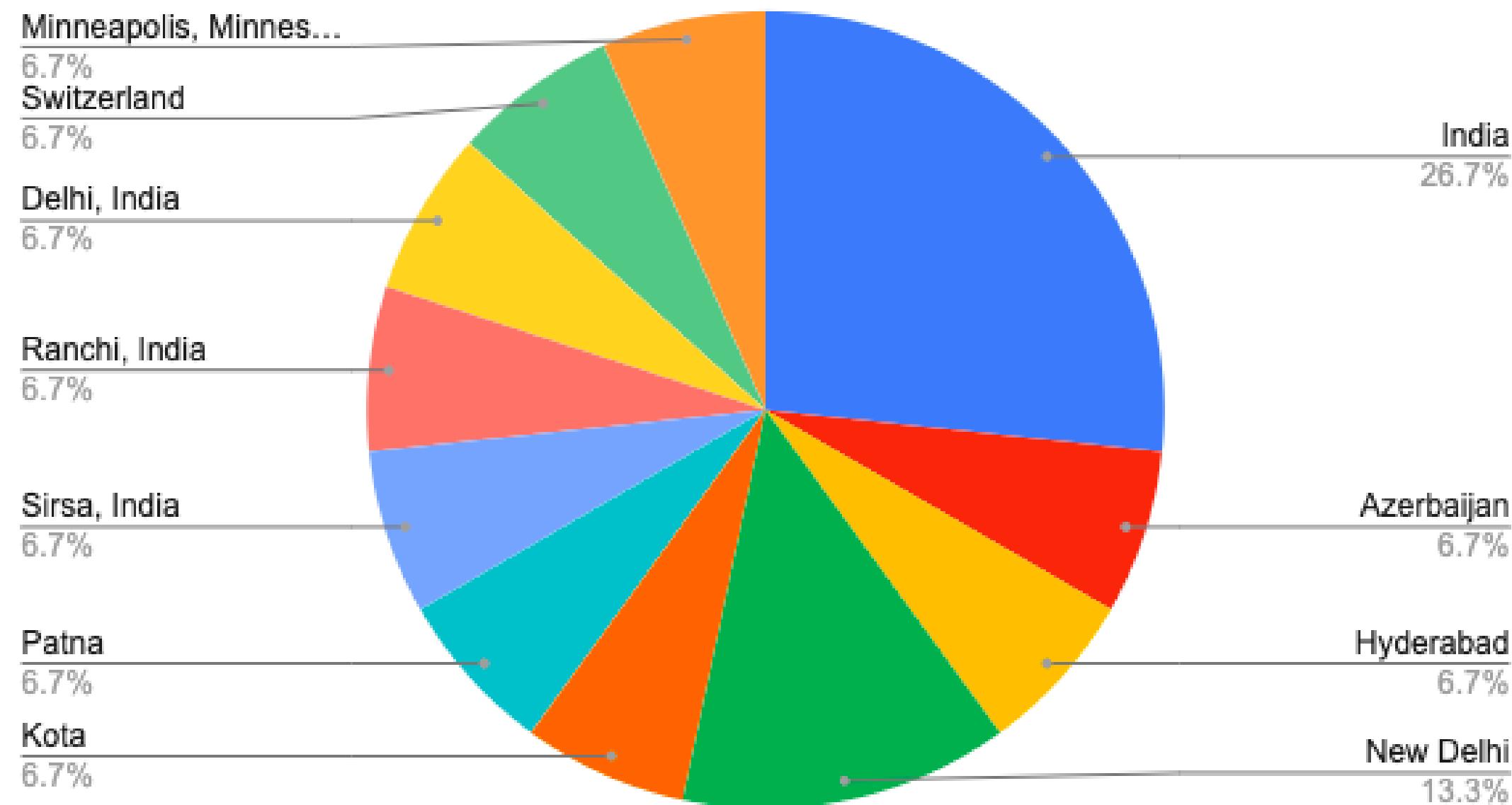
CHITCHAT

JAMBOARD



Audience

Today's locations



Code of Conduct

- 1 Learn, benefit, contribute
- 2 No marketing, selling, competing
- 3 Equality despite roles & bg



Photo Shoot Time

Please turn on your camera :D

Presentation

Modern way of building websites

Introduction to Jamstack Architectural Approach

SPEAKER

TONY MAMEDBEKOV

CONNECT

[HTTPS://TMAMEDBEKOV.DEV/](https://tmamedbekov.dev/)

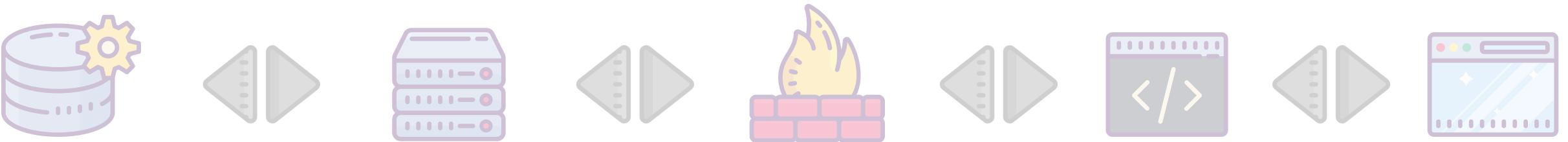
Agenda

- Web Architectures
- Modern Ways of Building websites
- What is Jamstack?
- What is SSG?
- Popular CMS
- Modern Hosting
- Demo

Web Architectures

HOW DO WE BUILD THE WEB

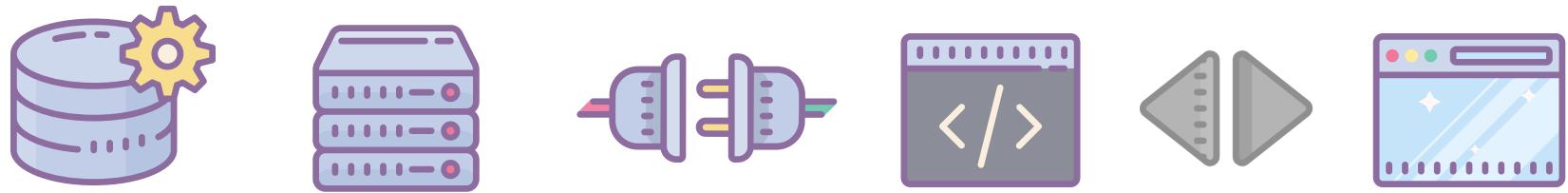
CLASSIC ARCHITECTURE



HEADLESS ARCHITECTURE



DECOUPLED ARCHITECTURE

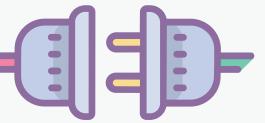


ADAPTIVE ARCHITECTURE



@tmamedbekov

Modern Way of Building





Modern Architecture

- AUTOMATE YOUR WORKFLOWS
- MAKE WEB DEVELOPMENT JOY
- UTILIZE MODERN TOOLS
- ADVANCED CDN PLATFORMS
- NEW APPROACHES

What is Jamstack?

JAVASCRIPT - API - MARKUP

**WHAT
DOES
IT
STAND
FOR?**

J - Javascript

Dynamic functionality during the request/response cycle, running on the client.

A - API

Server-side processes or database actions are abstracted into reusable APIs, accessed over HTTP with JavaScript.

M - Markup

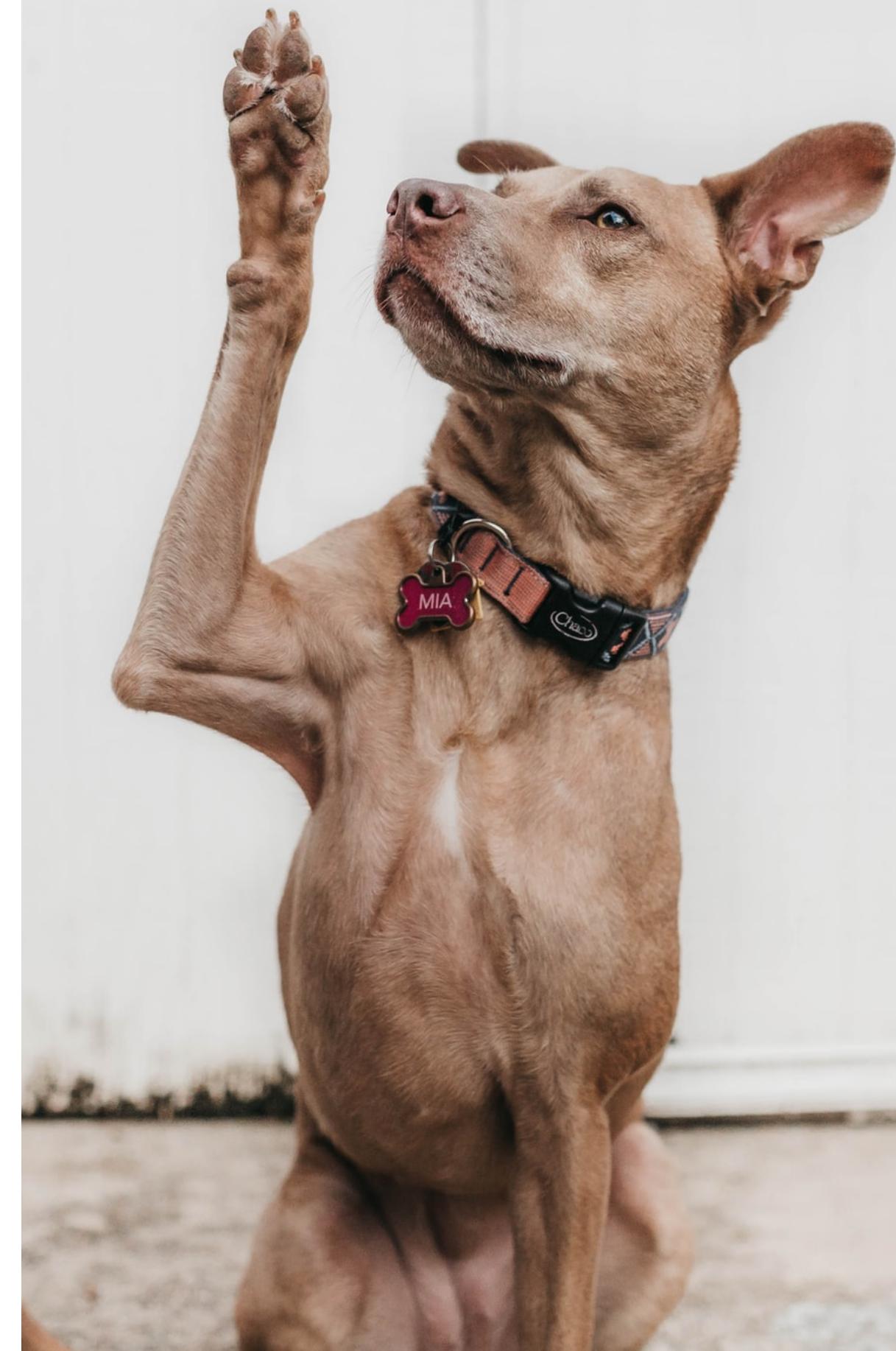
Templated markup should be prebuilt at deploy time, usually using a site generator of content sites, or a build tool for web apps.

WHO IS USING JAMSTACK?

1 Million Developers
has been reported by Netlify in 2020

TikTok, Hulu, Ticketmaster, Hilton
are using SSG NextJS (<https://nextjs.org/showcase>)

Technologies that can be used with Jamstack
Jamstack ecosystem is rapidly evolving



Why Jamstack?

WHAT BENEFITS DO I GET?

What are the benefits of Jamstack?

Why Jamstack?



Better Performance

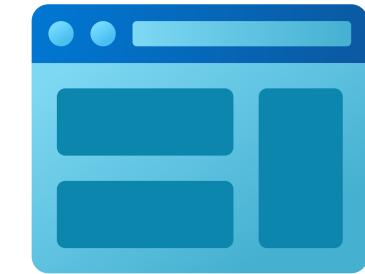
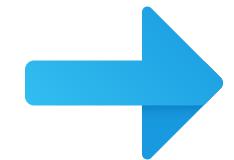
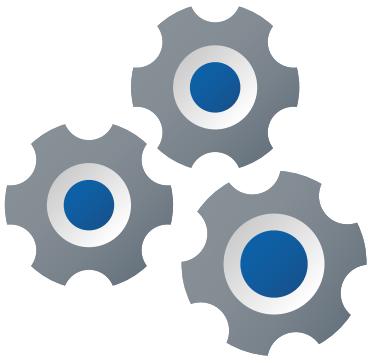


Higher Security



Cheaper, Easier Scaling

BUT HOW?

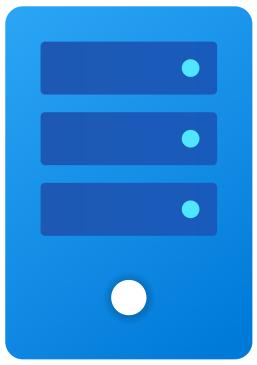


MARKUP + TEMPLATES

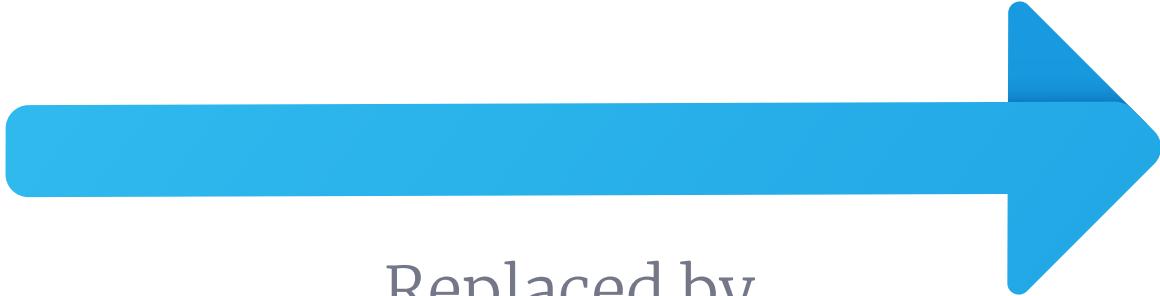
STATIC SITE GENERATOR

STATIC SITE

DECOUPLING THE FRONTEND FROM THE BACKEND



Running On Server



Replaced by

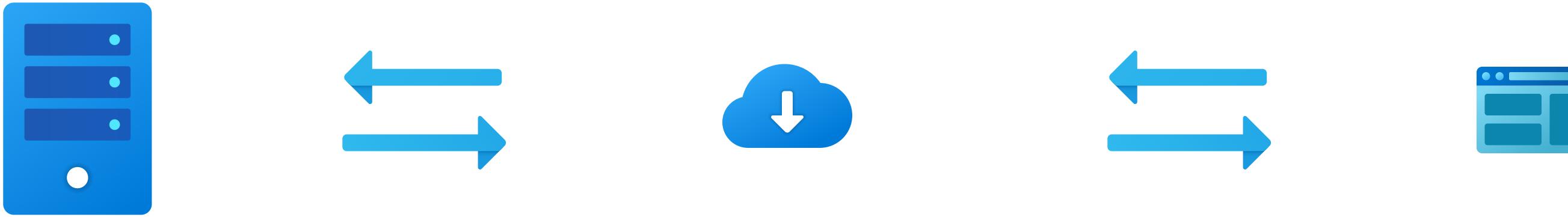


Deploying Sites Globally

A Jamstack deployment doesn't run on a traditional setup of origin servers. Instead, automated deployments are used to push sites directly to the Edge / CDN.

Caching

CACHING



Server

fetch the response, store
it in the cache and deliver
it to the client

CDN

cannot answer the
request from the cache it
will forward the request
to the backend

Client

receives requests from clients

What is SSG?



**A static site generator is a tool that generates a full static HTML website
based on raw data and a set of templates.**



Server

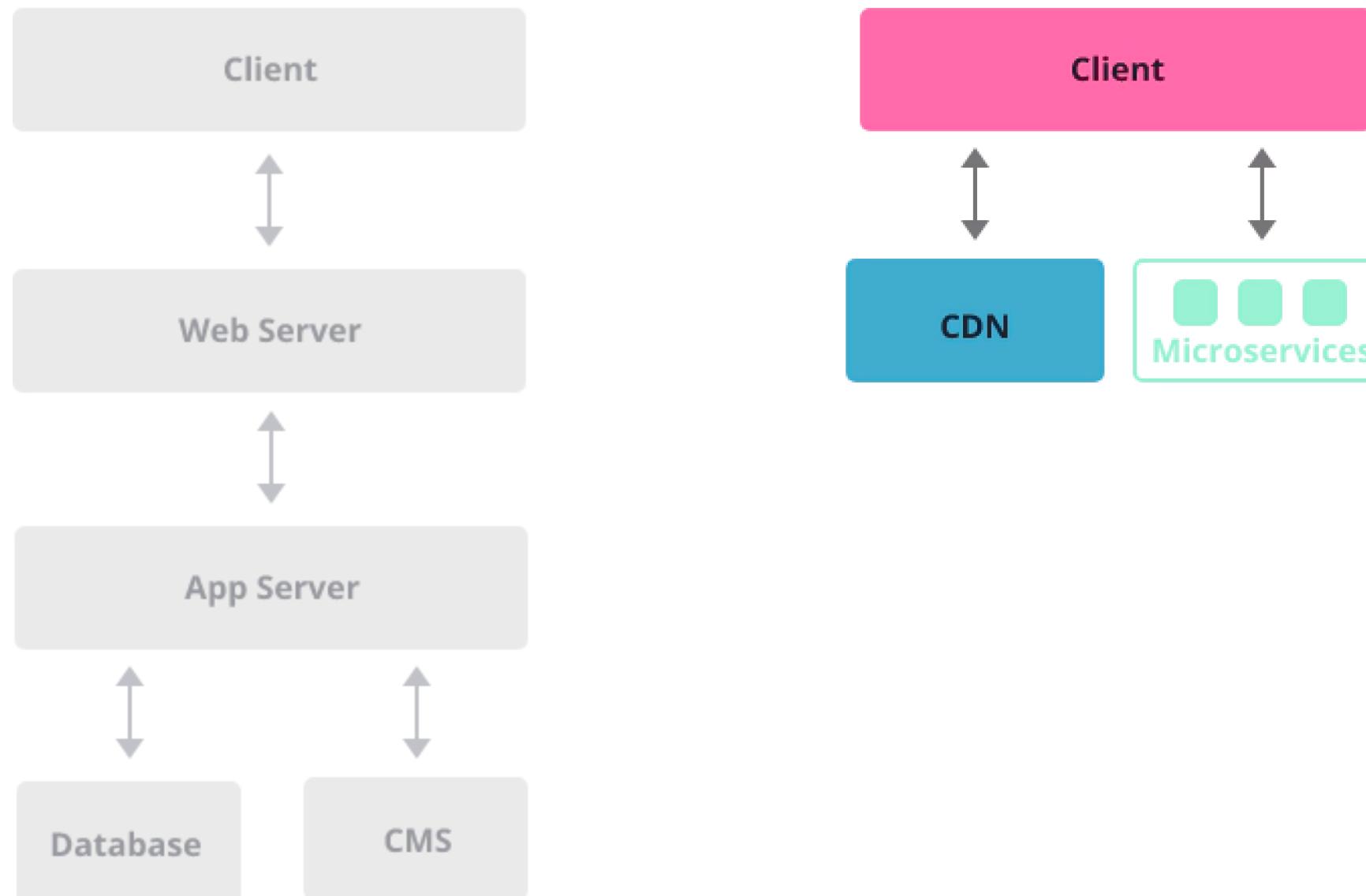
NEXT.JS



CDN

New Standard Architecture

Where the future is highly distributed

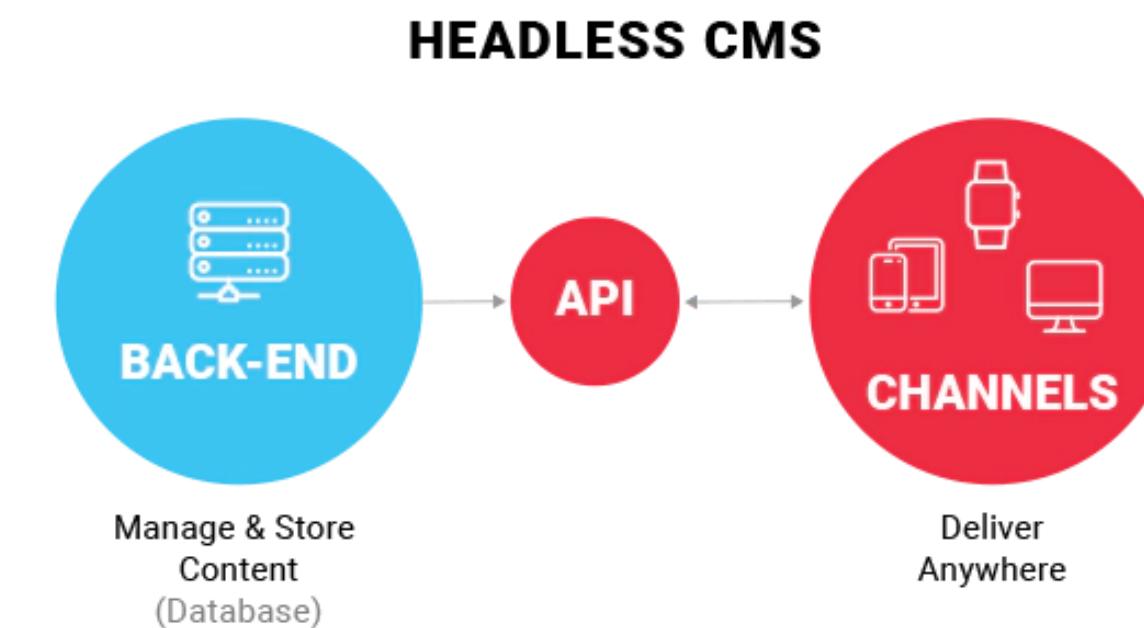


Headless CMS

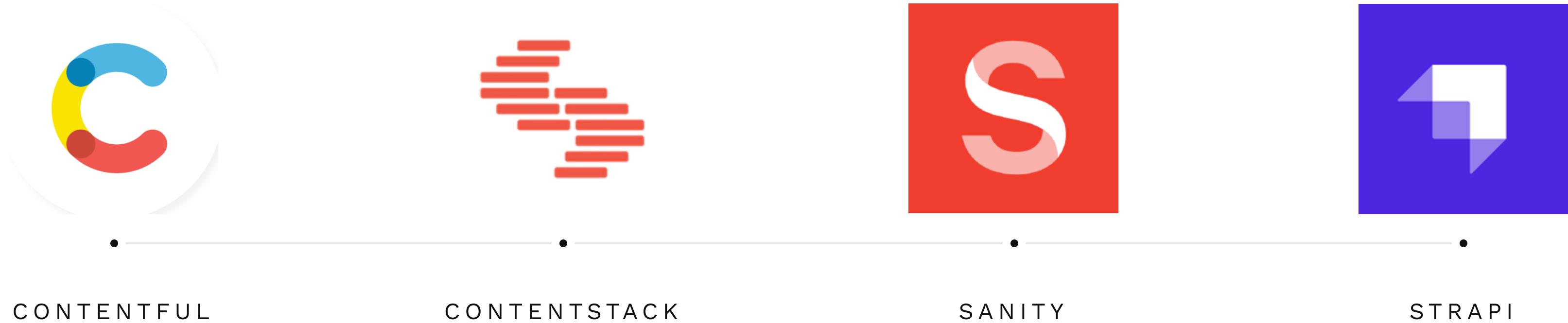
What is Headless CMS

HEADLESS CMS

Headless architecture allows components to remain completely autonomous and unaware of each other.



Headless CMS



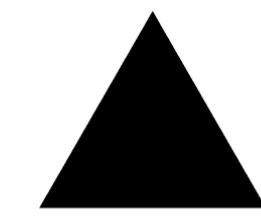
Modern Hosting Providers



Modern Hosting
Providers



netlify



Vercel



Questions

CONNECT WITH ME

[HTTPS://TMAMEDBEKOV.DEV](https://tmamedbekov.dev)

TWITTER - @TMAMEDBEKOV



5mins

Q&A | Discussion



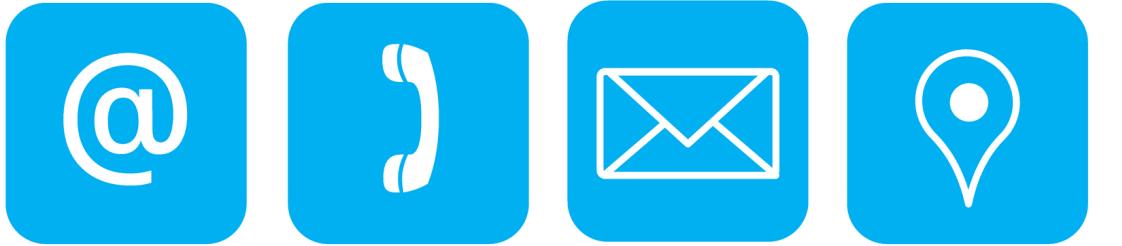
Type your thought
here

Type your thought
here

Type your thought
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Wrap Up

HOWTO



Remember!

- Re-Search
- Be short and clear
- Re-mind
- Q&A over Slack

Linkedin: /in/mamedbekov/

GOUP Slack: @Tony CL





Join Us!

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HTTPS://METABOB.COM

- 1** Community Managers
- 2** Tech Writers
- 3** In/Out Ambassadors
- 4** Marketing Creators & Editors
- 5** Course Creators
- 6** Project Creators

Thank You

Culture

#egoless #collaborative #competent #decentralized #scalable #fun

Open source

#creator #contributor

Diversity

#age #gender #location #economics #religion #politicalview

How can we do
better?