

# Modern Way of Building Websites with Jamstack Approach



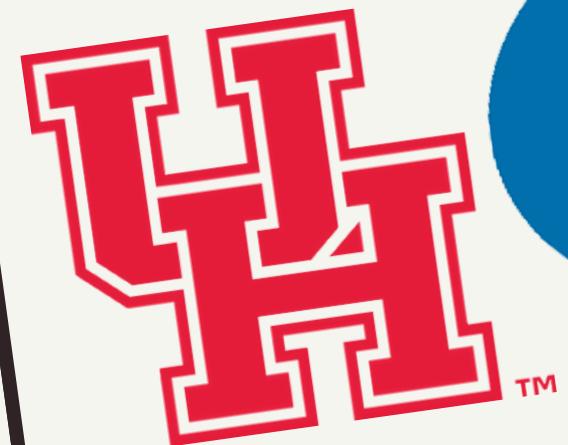
**Tony Mamedbekov**

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

*Previous Experience:*



**uniform**



**<epam>**

**Chapter04**  
**Session03**

Step Up. Speak Up. Go Up



June 12th 10AM PST



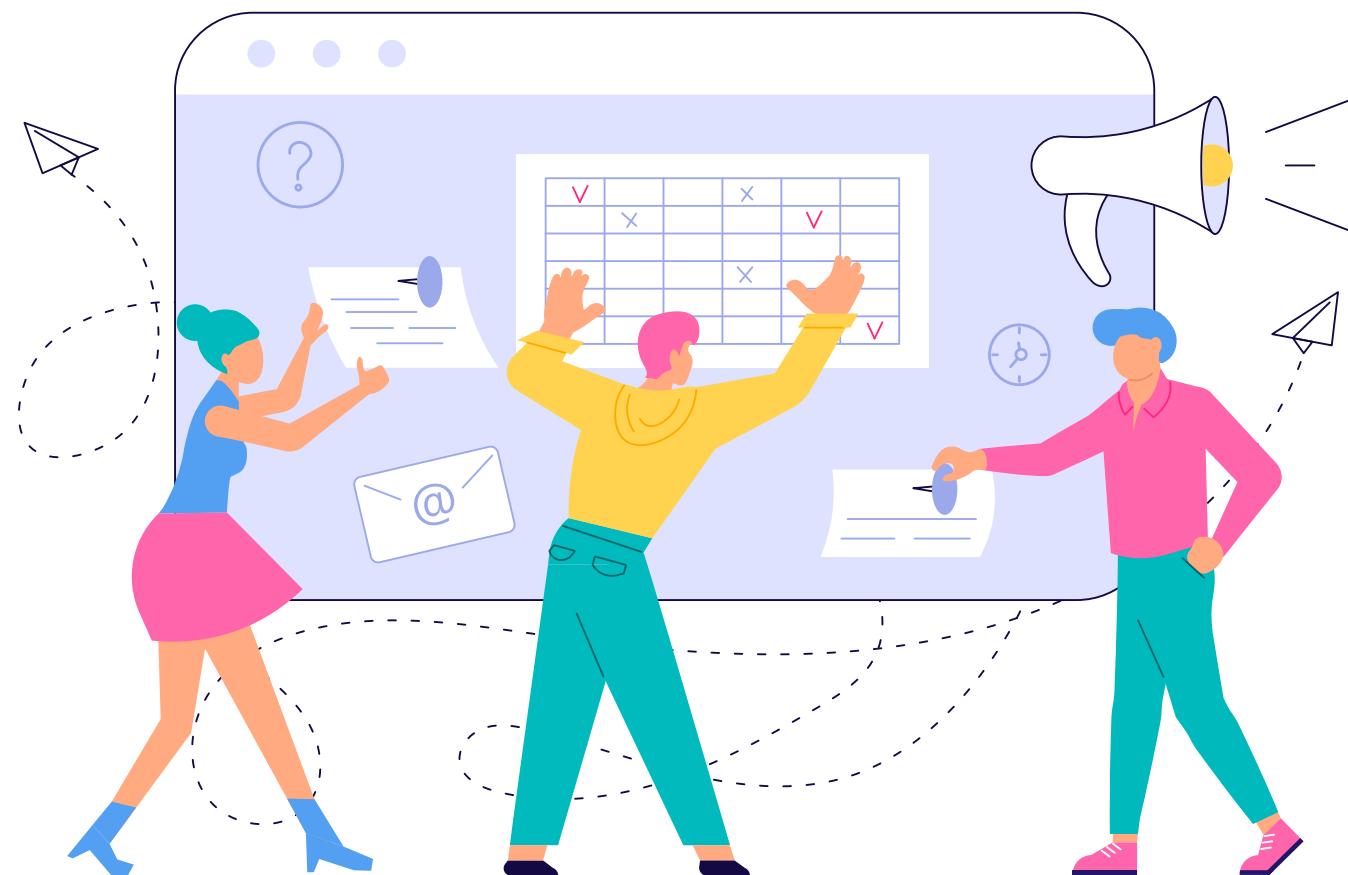
[zoom.goupaz.com](https://zoom.goupaz.com)

**Hosted by**



**Metabob**

# Agenda



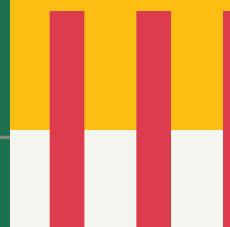
- **10:00-10:10 | Kickoff**
  - Introduction
  - Chit Chat
- **10:10-11:10 | Presentation**
  - Speaker
- **11:10-11:15 | Break**
  - Pre Q&A
- **11:15-11:30 | Q&A**
  - Discussion
- **11:30-11:35 | Wrap Up**
  - Contact Speaker

Hosted by



Axel Lönnfors  
Digital Marketing  
Specialist | Community  
Manager

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



## Metabob

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

<https://metabob.com>

## GOUP

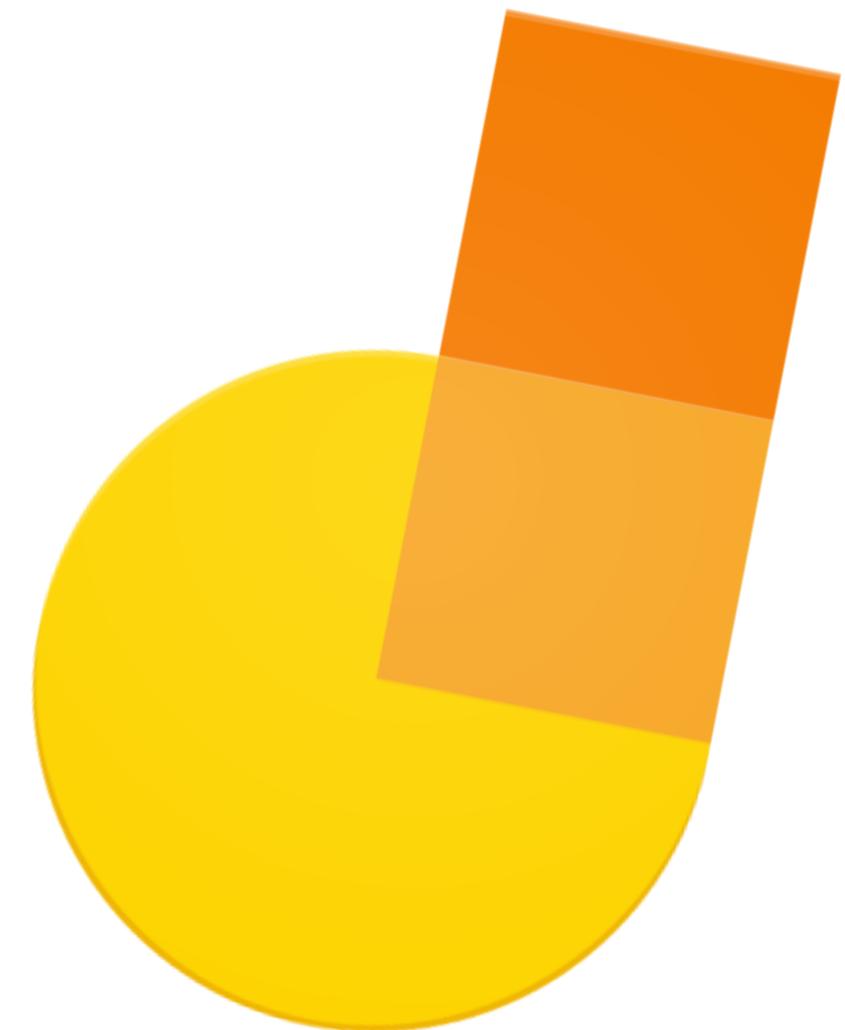
Community driven Open source accelerator!  
<https://goupaz.com>

Are you ready?

Let's Begin!

CHITCHAT

# JAMBOARD



# What do you want to learn from this webinar?

I am Rasim.  
My expectation to learn about Jamstack

I wish to learn more about web development overall

I want to learn what is jam stack and how it works

I am Akhil.  
Why An Approach Is Important ?

I want to learn Jamstack and development of an effective website.

Sako - Learn about NextJS and how make static website connect to database and rebuild

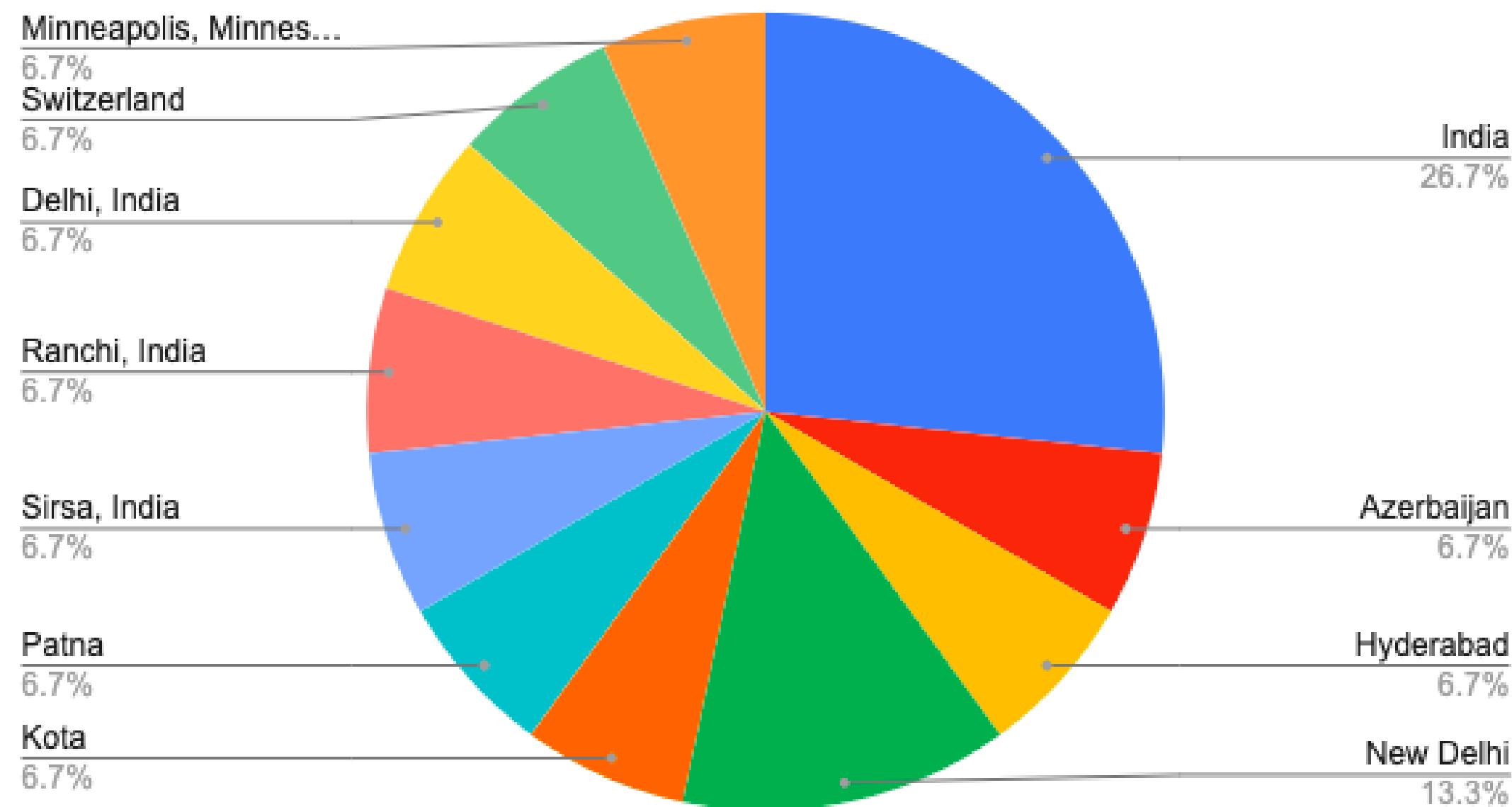
I'm Arushi,  
and keenly excited to learn about debugging applications

I want to get started with web development so here to get insights regarding the journey in it.  
Namanpreet Kaur

How To Start Learning Web Development

# 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

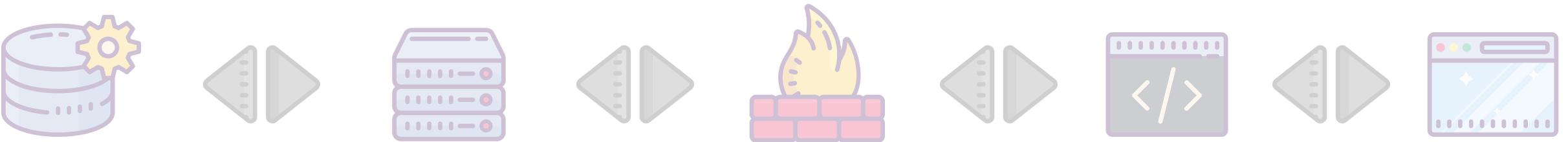
- Web Architectures
- Modern Ways of Building websites
- What is Jamstack?
- What is SSG?
- Popular CMS
- Modern Hosting
- Demo

# Web Architectures

HOW DO WE BUILD THE WEB

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## CLASSIC ARCHITECTURE



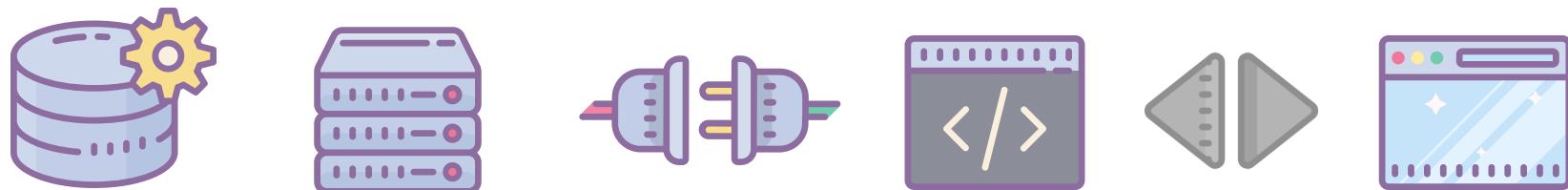
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## HEADLESS ARCHITECTURE



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## DECOUPLED ARCHITECTURE



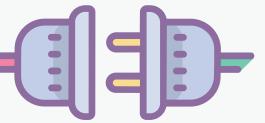
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## ADAPTIVE ARCHITECTURE



@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.

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# **A - API**

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

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# **M - Markup**

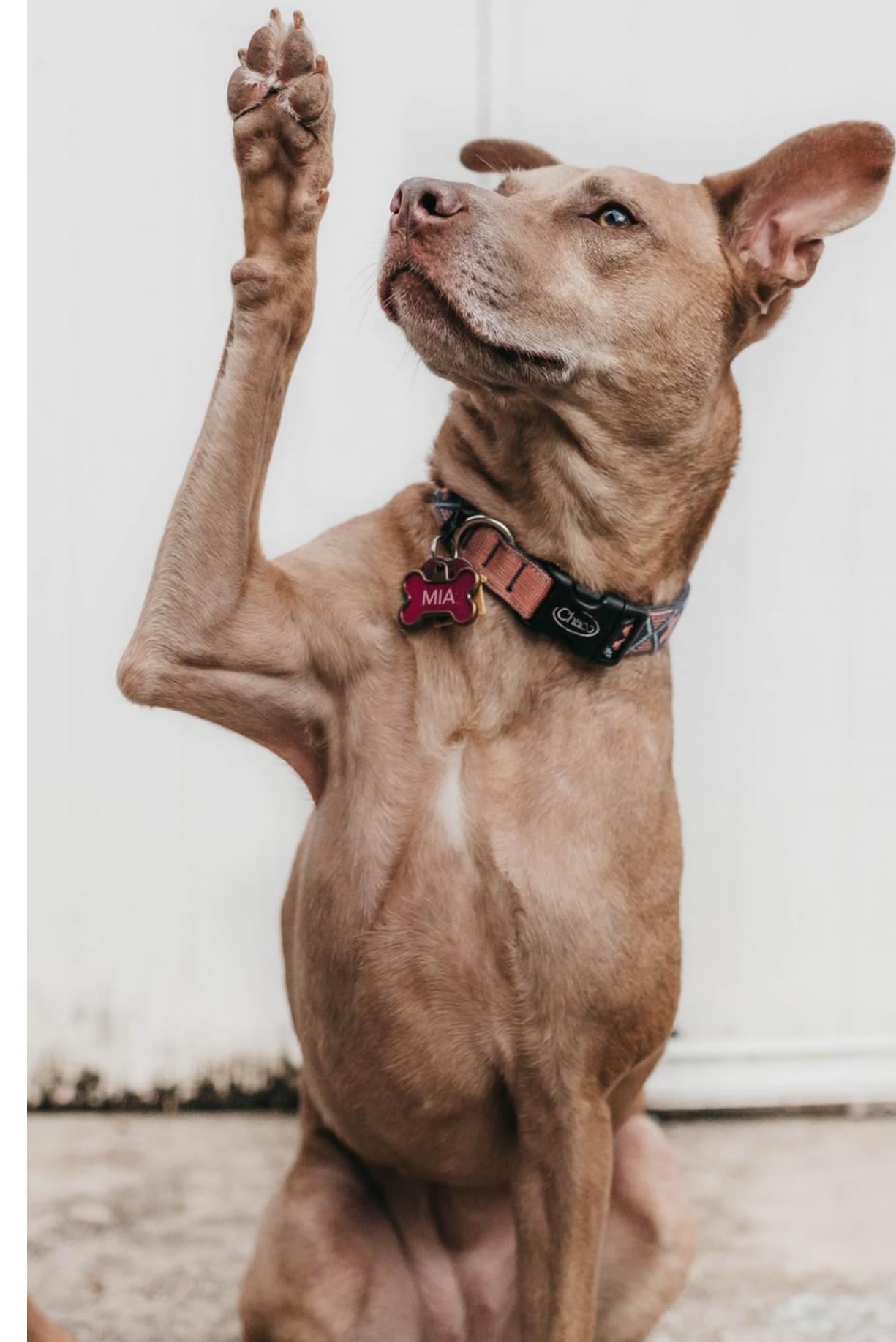
Templated markup should be prebuilt at deploy time, usually using a site generator of content sites, or a build tool for web apps.

# 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

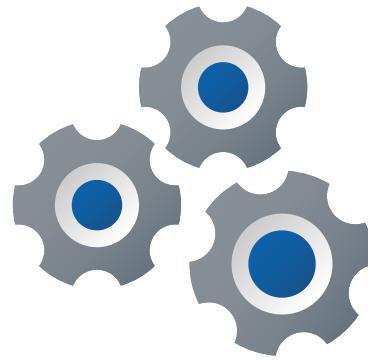
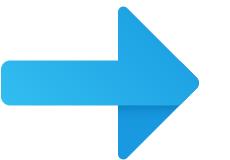


Higher Security



Cheaper, Easier Scaling

**BUT HOW?**

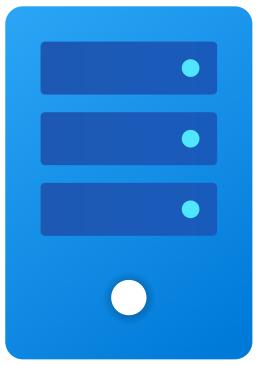


**MARKUP + TEMPLATES**

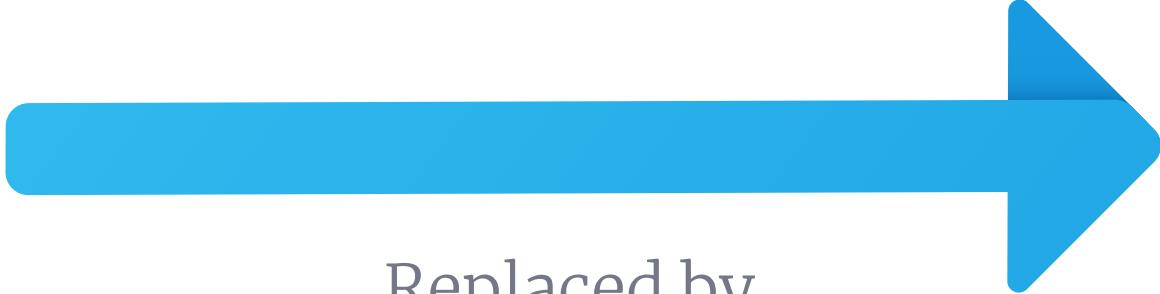
**STATIC SITE GENERATOR**

**STATIC SITE**

## DECOUPLING THE FRONTEND FROM THE BACKEND



**Running On Server**



Replaced by

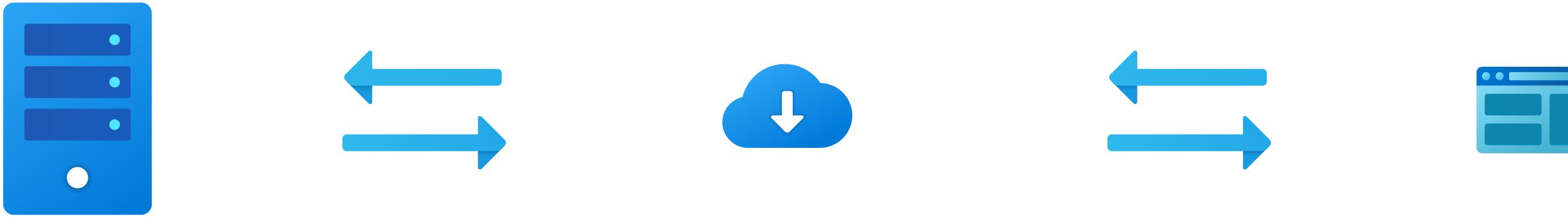


**Deploying Sites Globally**

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

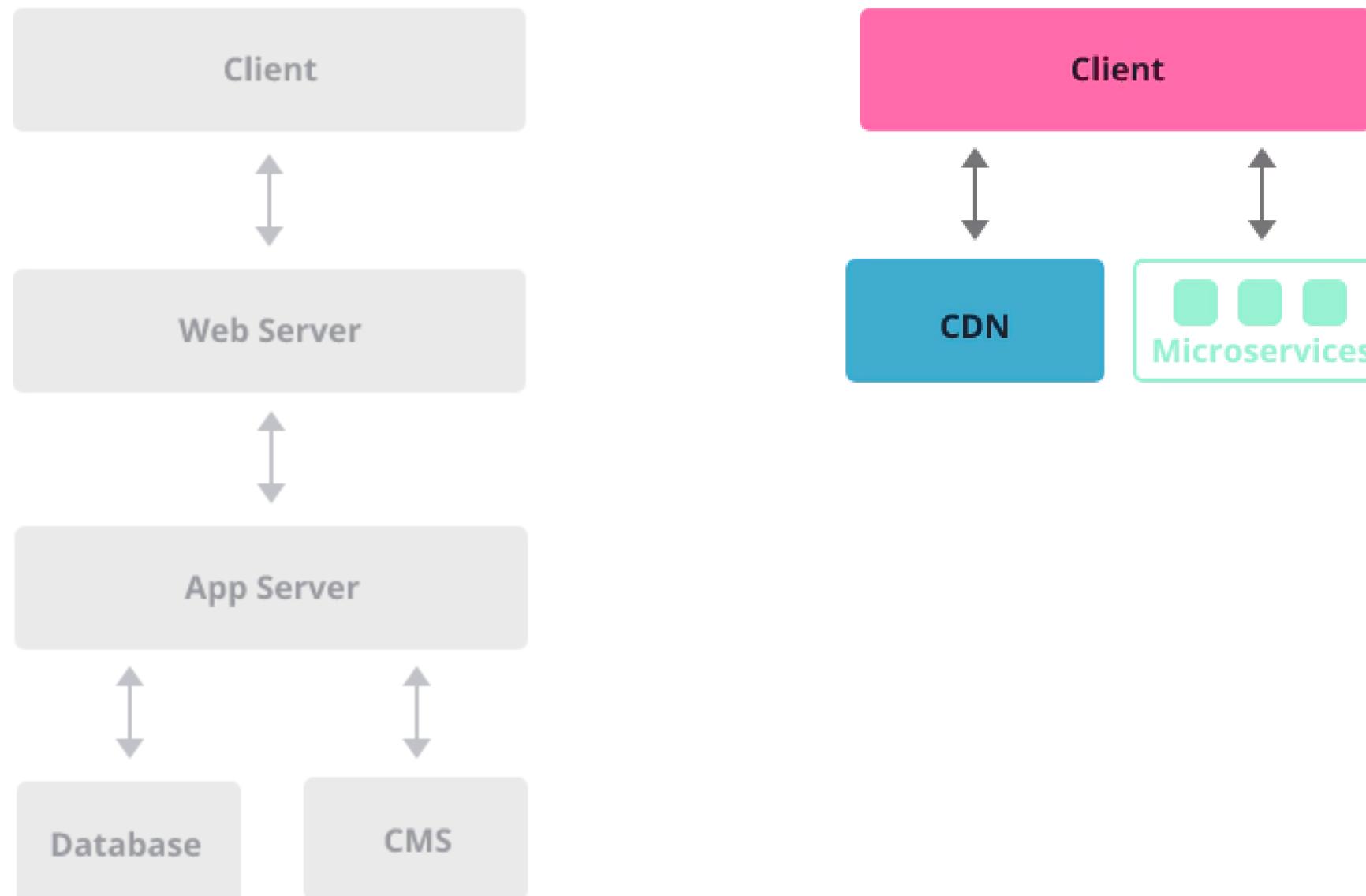
NEXT.JS



CDN

# New Standard Architecture

## Where the future is highly distributed

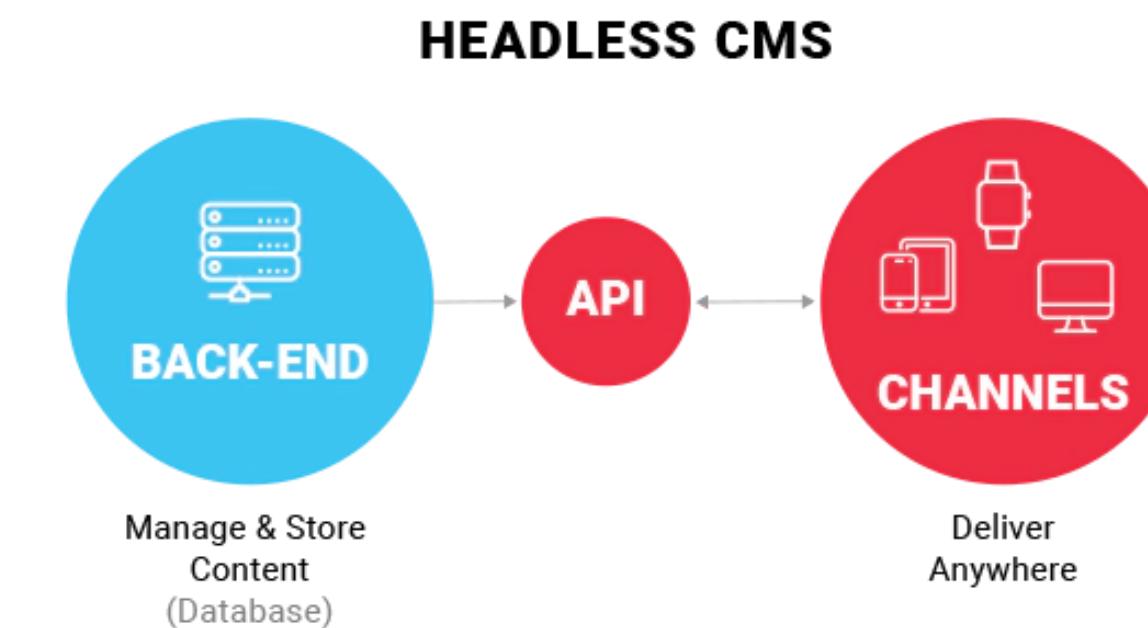


# Headless CMS

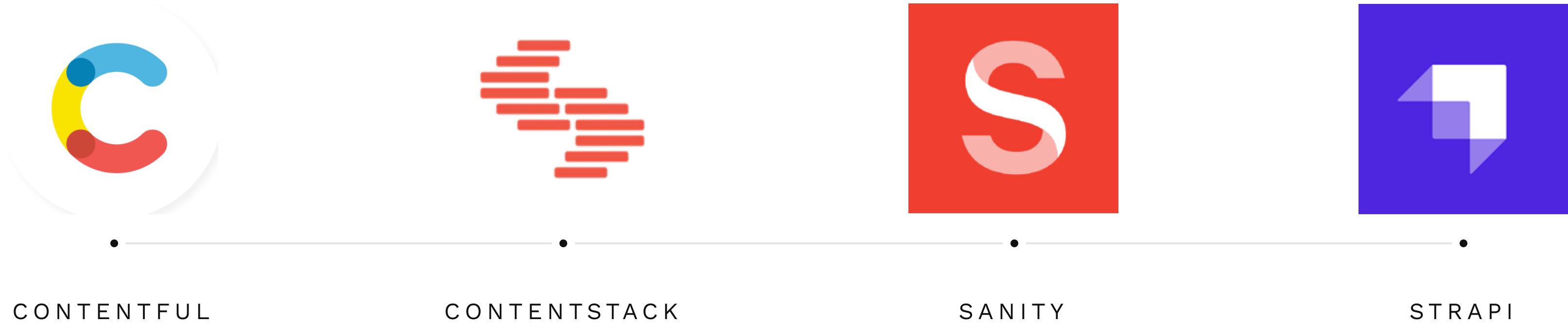
# What is Headless CMS

## HEADLESS CMS

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



# Headless CMS



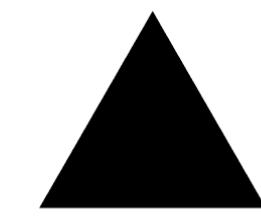
# Modern Hosting Providers



Modern Hosting  
Providers



netlify



Vercel



# Questions

CONNECT WITH ME

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

TWITTER - @TMAMEDBEKOV



5mins

# Q&A | Discussion



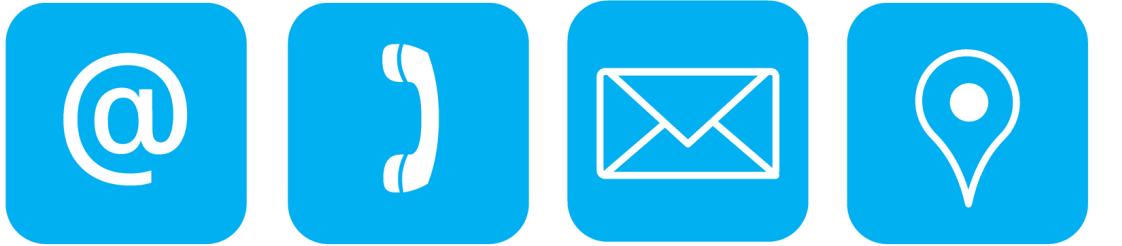
Type your thought  
here

Type your thought  
here

Type your thought  
here

# 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!**

**HTTPS://GOUPAZ.COM**

**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?