

GatsbyJS: Getting Started

INTRODUCING GATSBYJS



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JAMStack



JavaScript



API's



Markup (HTML)



JAMStack

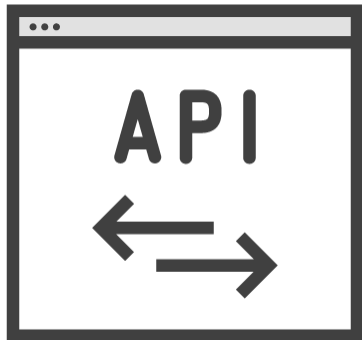
Modern web development architecture based on client-side JavaScript, reusable APIs, and prebuilt Markup.



HTML
Images
CSS
JavaScript
Calls external APIs



External API's



Created by you (developer or company)

By an external organization



The Role of JavaScript and API's

JavaScript

Client and presentation logic

API's

Business logic



Site Rendering

Traditional applications

At runtime in the server side

JAMStack

At build time in the
developer's computer or a
build server



JAMStack Advantages



Better performance

- Hosting in a CDN is a plus

Better security

- Reduced attack surface

Less expensive to and easier to scale

- The cloud is your friend

Better discoverability

- SEO friendly

JAMStack Powered Sites



Build time instead of runtime

JavaScript makes it dynamic

- Angular, Vue, React, jQuery or plain JavaScript

Static content

Call external APIs when needed

Not Powered by JAMStack



Server-side render sites in general

- E.g.: CMS like WordPress

Server-side rendered web applications

- ASP.NET, Spring, Node, RoR, Django

Isomorphic SPA's

- Angular, Vue, React

GatsbyJS and JAMStack

GatsbyJS

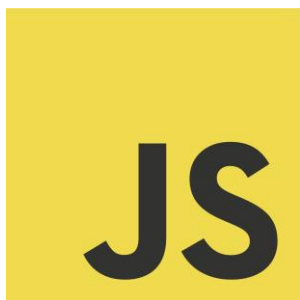
Blazing fast sites and apps



JAMStack

JavaScript, APIs and Markup

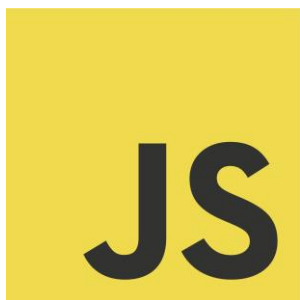




GatsbyJS

A modern front-end framework for creating static sites and applications.





GatsbyJS

A modern front-end framework for creating static sites and applications.

ReactJS GraphQL WebPack JavaScript



ReactJS



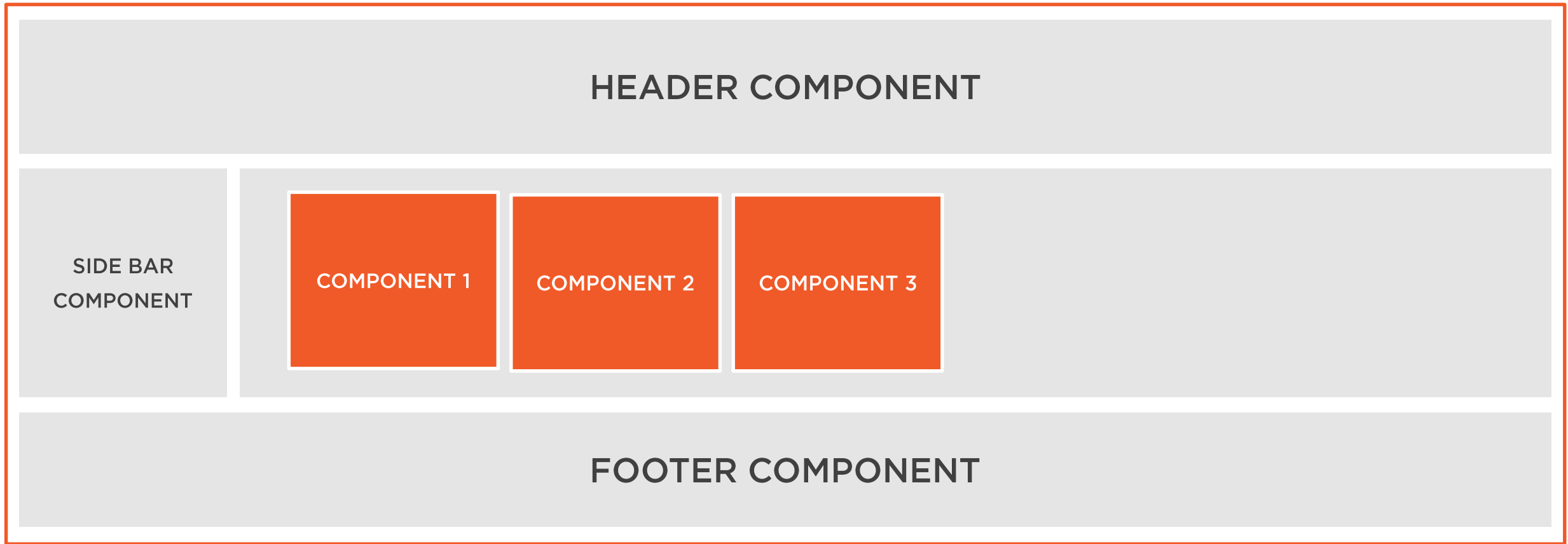
JavaScript library for building modern user interfaces

Built by Facebook

Industry standard



React Component Model



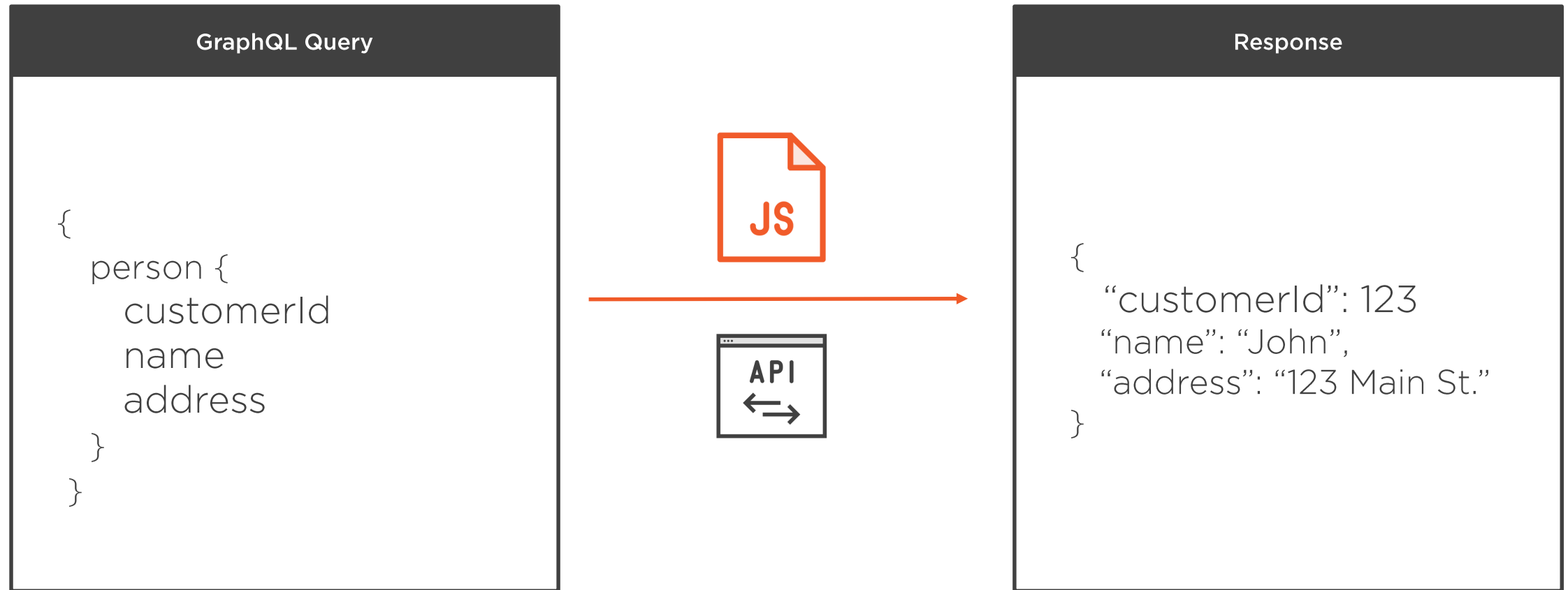
GraphQL



Also created by Facebook
Query language



GraphQL Query



ReactJS GraphQL WebPack JavaScript



Gatsby Creates Static Sites



HTML



CSS



JavaScript



Images and other static content



GraphQL in a Nutshell



GraphQL in a Nutshell



GraphQL in a Nutshell



GraphQL in a Nutshell



GraphQL in a Nutshell



GraphQL in a Nutshell



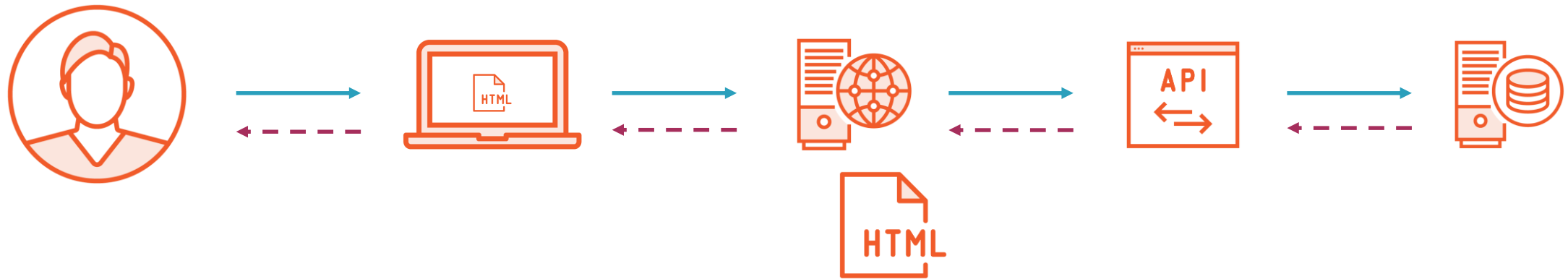
GatsbyJS



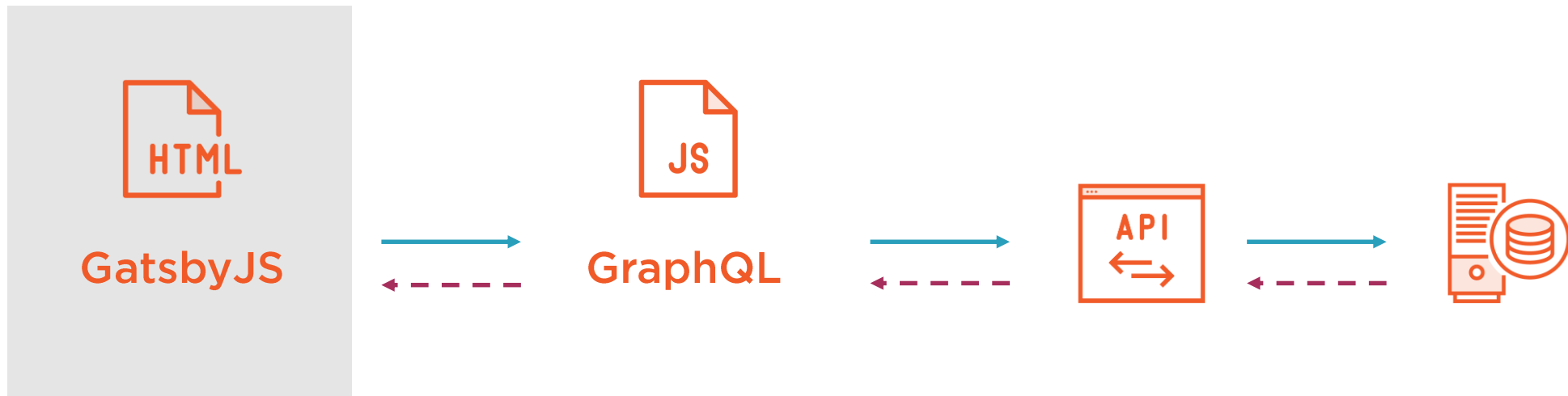
A Classic Server-side Rendered Example



A Classic Server-side Rendered Example



Gatsby's Build-time Rendering Example



Gatsby's Plugin Ecosystem



Gatsby has a ton of plugins

Images

Offline access

Sitemaps

JSON

TypeScript

And many, many more

Gatsby It's Pretty Cool



Great development experience

Uses a modern workflow

With future-proof technologies

JAMstack-powered

Fast and secure sites and applications

Easy and inexpensive to host

Great SEO results

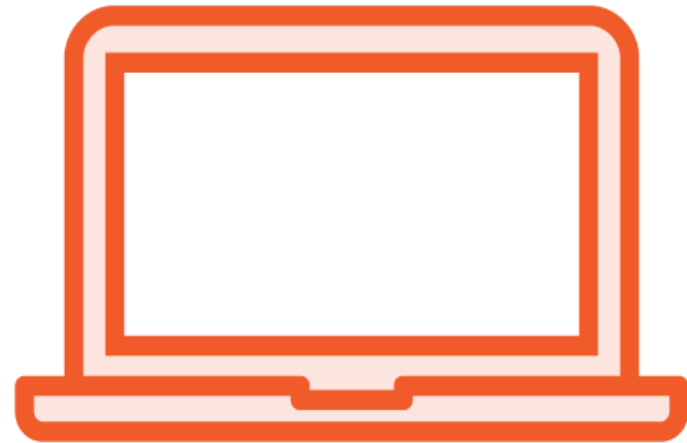


Create Web Apps with the Power of ReactJS



Sites

All sorts of static sites



Apps

But also powerful front-end web applications



Browser Support



GatsbyJS

Internet explorer 9+

All ever-green browsers



Demo



Install NodeJS

Install Gatsby CLI



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Node.js® is a JavaScript runtime built on [Chrome's V8 JavaScript engine](#).

Download for macOS (x64)

10.13.0 LTS

Recommended For Most Users

11.1.0 Current

Latest Features

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Homebrew

Homebrew is a free and open-source software package management system that simplifies the installation of software on Apple's macOS operating system





```
/usr/bin/ruby -e "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/master/install)"
```

Installing Homebrew for MAC

Type this code in the command line





```
brew install node
```

Installing NodeJS

Type this code in the command line



NPM

npm is the package manager for JavaScript and the world's largest software registry.





```
npm install --global gatsby-cli
```

Installing Gatsby CLI

Type this code in the command line



Starter Templates

Boilerplate Gatsby sites

Inherits styles, JavaScript, images and more



Demo



Create a new site based on a starter template



Gatsby Configuration Files



`gatsby-browser.js`

Gatsby settings affecting the browser



`gatsby-config.js`

Main configuration file for a Gatsby site



`gatsby-node.js`

Site build process configuration

