

Dr. K's Notes

on

w3schools.com

Web Development Roadmaps

<https://www.w3schools.com/whatis/>

Web Development Roadmaps

Front-End Roadmaps

Learn the Basics

Dig Deeper

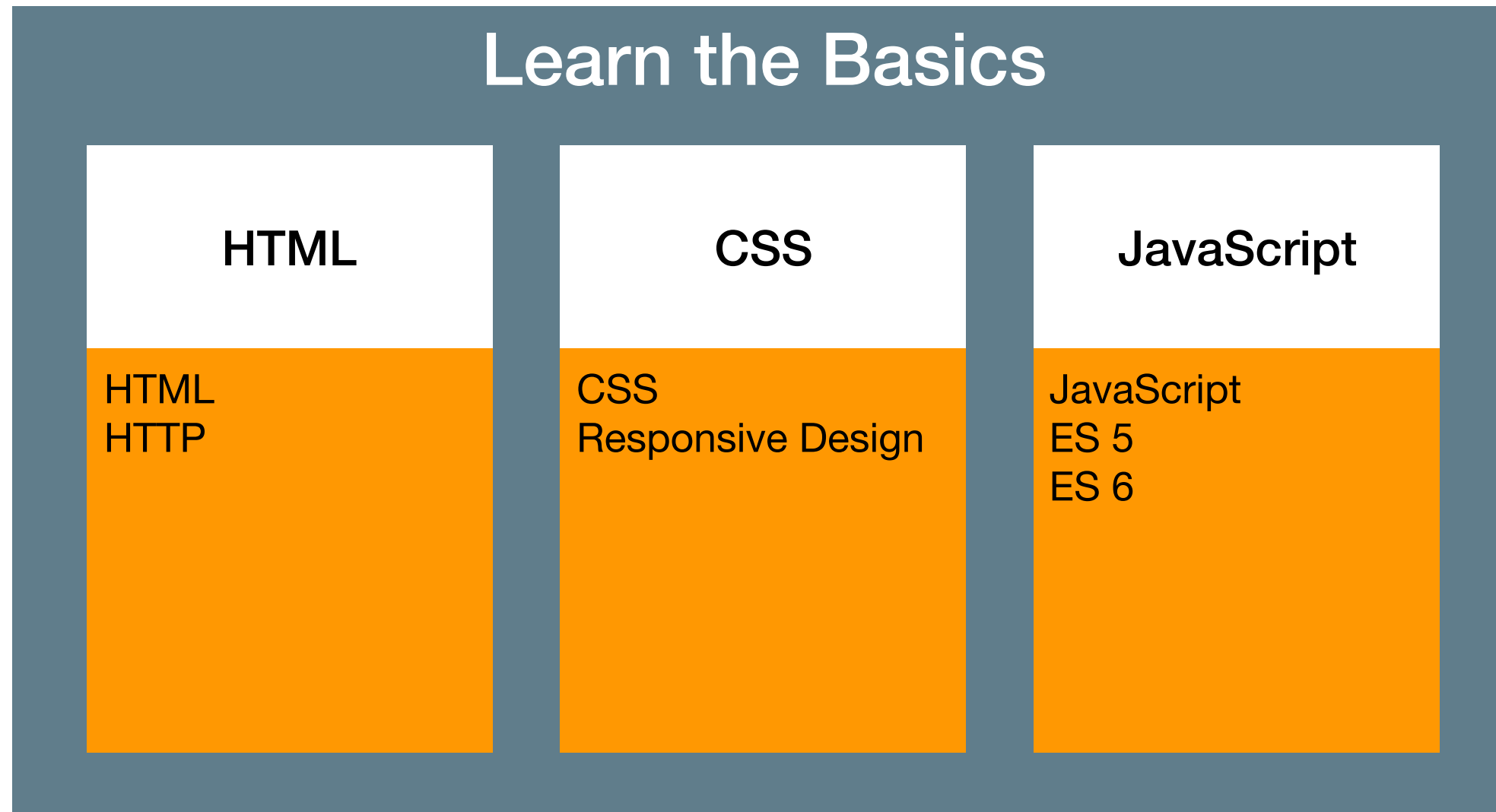
Choose Frameworks

Back-End Roadmaps

Back-End Roadmaps

The distinction between front-end and back-end is fundamental to web development. Front-end development involves the code that is served to the client (a web browser). Back-end development involves the code that is run on the server. Typically a database, code related to sharing the data, and the business logic for the application.

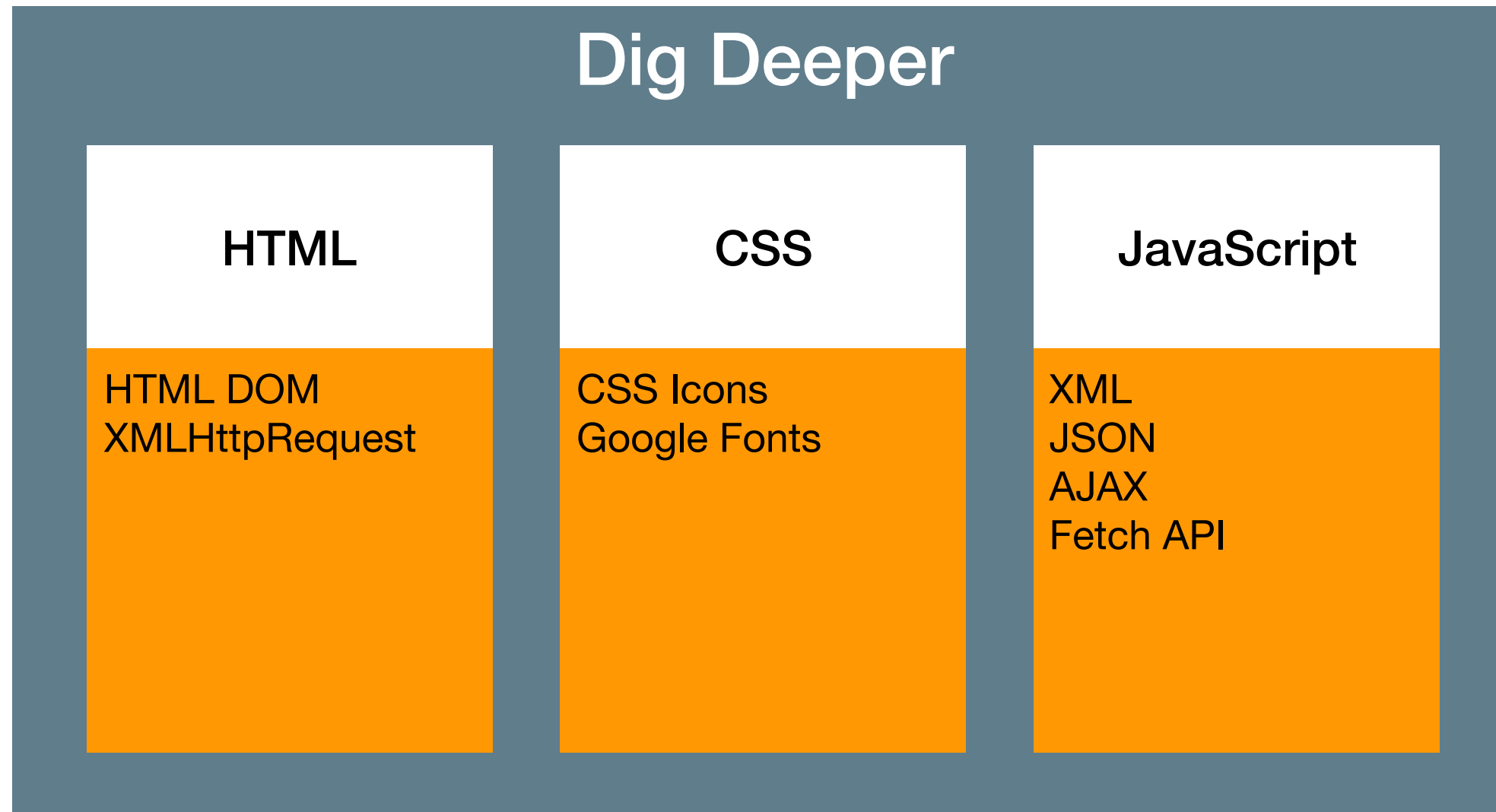
Web Development Roadmaps



I removed XHR from the HTML box. Not because it isn't important – it is. However, it belongs in the same section with the DOM and AJAX.

ECMAScript 5 (ES 5) is a JavaScript specification. Almost all browsers are ES 5 compliant, but most modern browsers are also ES 6 compliant, so I've included it here.

Web Development Roadmaps



XMLHttpRequest (XHR) is supported in almost every browser. AJAX uses the XHR so clients can access and update data on the server without having to refresh the page.

Fetch is slowly replacing AJAX/XHR. It does everything they can do, it's easier to use, and it works well with web services.

Web Development Roadmaps

Choose Tech / Frameworks

CSS

Grids
Flexbox

Bootstrap

JavaScript

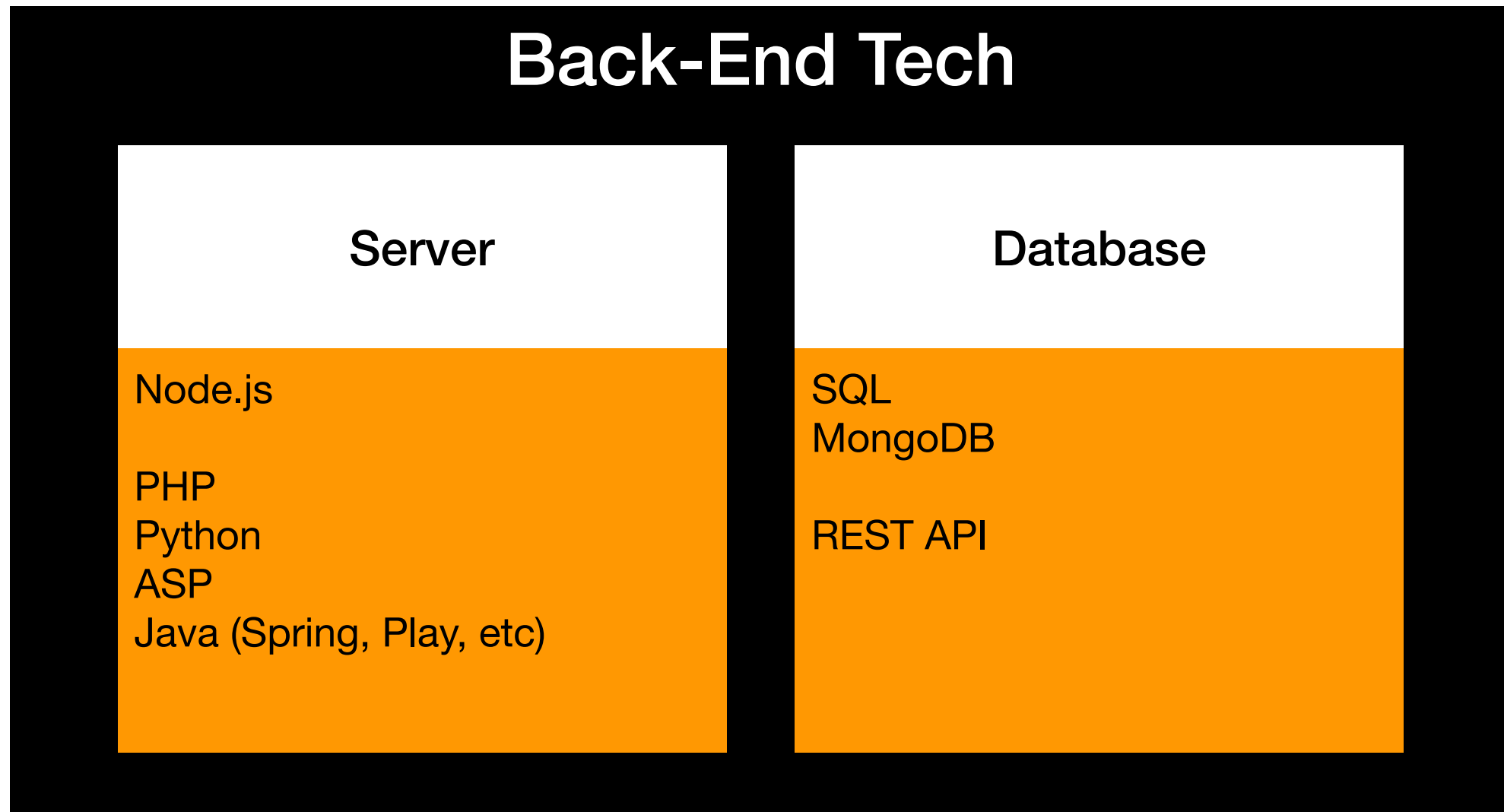
jQuery

Angular
React
Vue

Bootstrap is the main CSS framework. Grids and flexbox are important layout technologies that can be used with or without Bootstrap.

jQuery is the most popular JS library. Angular, React, and Vue are all frameworks that help you tie the state of your application to DOM elements.

Web Development Roadmaps



W3C divides back-end roadmaps into JS and non-JS. That's useful, but there is also a clear division between server and database. The database server is distinct from the application server.

For the server, first decide on a language: JavaScript, Python, Java, etc. Then consider choosing a framework for that language.

For the database, decide if you want an SQL or no-SQL database. Then consider using a REST API interface to serve your data to multiple kinds of platforms.

Web Development Roadmap

What is Roadmap

What is HTTP

What is HTML

What is CSS

What is Responsive

What is JavaScript

What is ES5

What is ES6

What is HTML DOM

What is Google Fonts

What is XML

What is AJAX

What is XHR

What is JSON

What is Fetch API

What is CSS Icons

What is Bootstrap

What is CLI

What is npm

What is GitHub

What is jQuery

What is AngularJS

What is React

What is Vue.js

What is Fullstack

What is Fullstack JS

What is Node.js

What is SQL

What is REST

* Terms in blue were added. Terms removed: Google Maps, Google Charts, W3.CSS, and W3.JS