

Introduction to MEAN.JS

Course Introduction



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Welcome!

What is the MEAN
stack?

Why use a
Boilerplate?

Other MEAN stack
options

Demo Application

What is the MEAN Stack?



M

Express

E



A



N

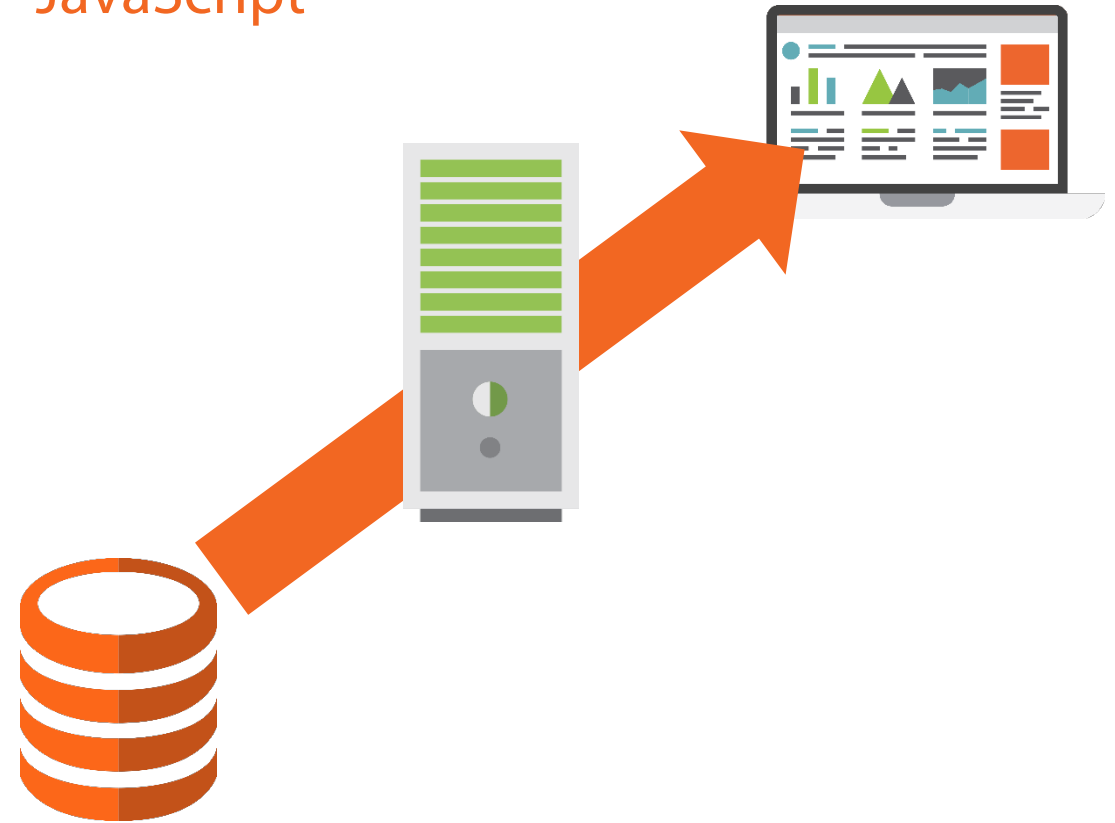
Coined by Valeri Karpov (http://bit.ly/vk_mean)

"My team uses a set of tools that we affectionately call the **MEAN stack**"

Gaining Popularity



Single Technology Platform
JavaScript



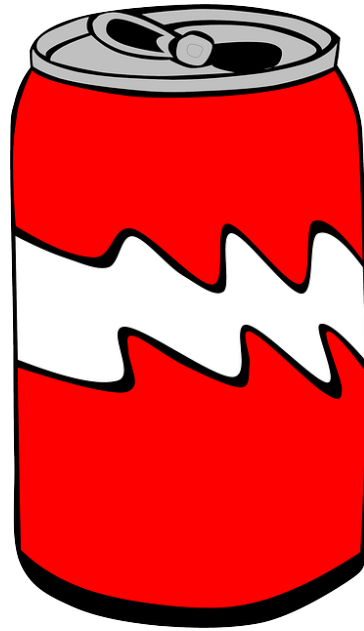


- Introduction to MongoDB
- AngularJS: Get Started
- AngularJS Fundamentals
- Introduction to Node.js
- Node.js for .NET Developers
- Introduction to Mongoose for Node.js and MongoDB
- Many more...



“Boilerplate”

Why Use a Boilerplate Framework?



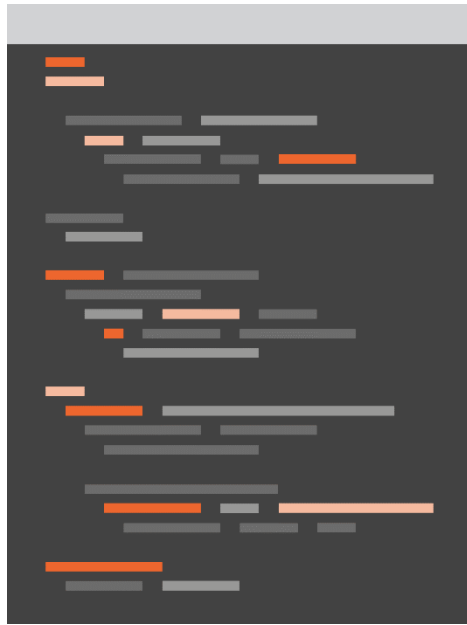
Coke
Soda
Cola

Why Use a Boilerplate Framework?



Information Source: Wikipedia

Boilerplate in Software Development



Code Template



Generated Code



Code Generation



Consistency
Fewer Bugs
Best Practices
Support
Time



Comparison of MEAN Stacks

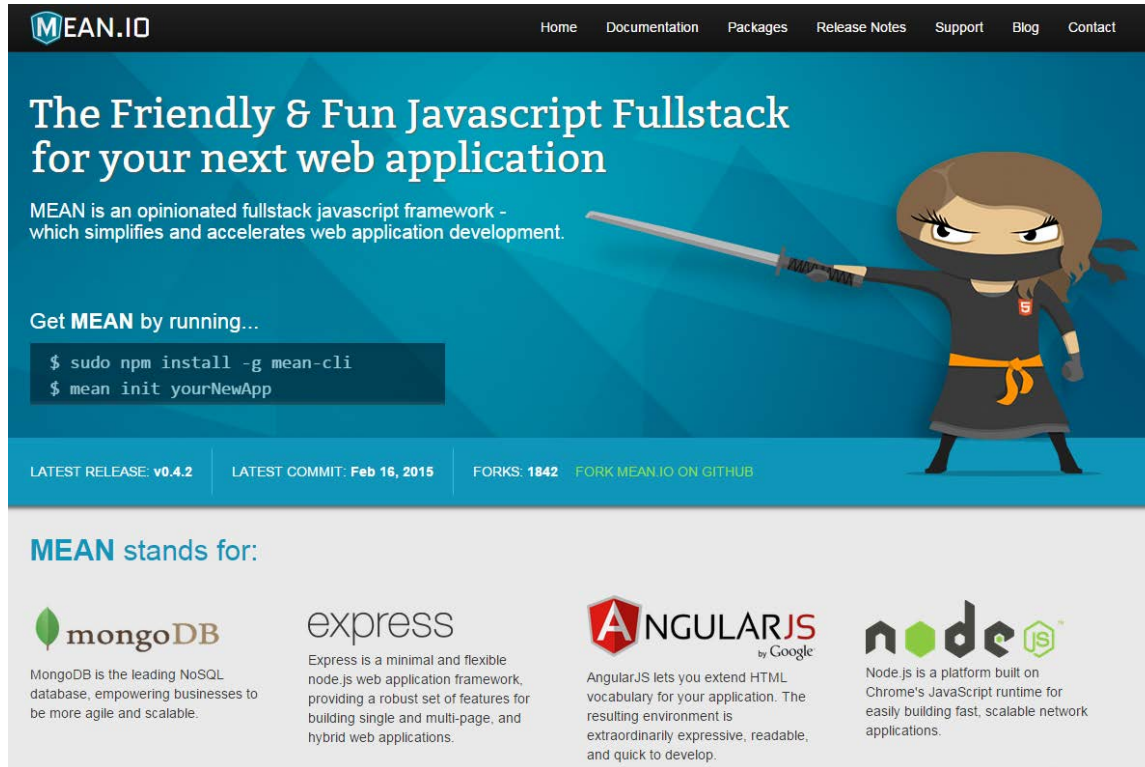


Began as MEAN.io

Forked off

<http://blog.meanjs.org/post/76726660228/forking-out-of-an-open-source-conflict>

Comparison of MEAN Stacks



The screenshot shows the MEAN.IO website homepage. At the top is a navigation bar with links: Home, Documentation, Packages, Release Notes, Support, Blog, and Contact. The main header features the MEAN.IO logo and the tagline "The Friendly & Fun Javascript Fullstack for your next web application". Below this, a description states: "MEAN is an opinionated fullstack javascript framework - which simplifies and accelerates web application development." To the right of the text is a cartoon illustration of a female ninja character holding a sword. A code block provides instructions to get MEAN:

```
$ sudo npm install -g mean-cli  
$ mean init yourNewApp
```

. A status bar at the bottom of the main section shows: "LATEST RELEASE: v0.4.2", "LATEST COMMIT: Feb 16, 2015", "FORKS: 1842", and a link to "FORK MEAN.IO ON GITHUB". The bottom section, titled "MEAN stands for:", lists the four components: MongoDB, Express, AngularJS, and Node.js, each with a brief description of its role in the stack.

MEAN stands for:

- mongoDB**
MongoDB is the leading NoSQL database, empowering businesses to be more agile and scalable.
- express**
Express is a minimal and flexible node.js web application framework, providing a robust set of features for building single and multi-page, and hybrid web applications.
- ANGULARJS**
AngularJS lets you extend HTML vocabulary for your application. The resulting environment is extraordinarily expressive, readable, and quick to develop.
- node.js**
Node.js is a platform built on Chrome's JavaScript runtime for easily building fast, scalable network applications.

More of a Framework than a Boilerplate

More CMS like in structure

Opinionated

<http://blog.mean.io/2014/06/extending-mean-io/>

Yeoman Generators



Yo generator Examples:

generator-angular-fullstack

generator-mean-stack

generator-meanie

... and many more!

<https://www.npmjs.com/search?q=mean+stack>

Do It Yourself

Socket.io

lodash



mongoDB

mocha

Passport

browserify



GRUNT

Express



YEOMAN



Swig



Mongoose



underscore

Forever

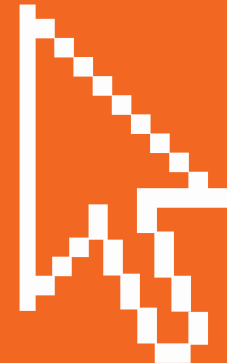
Demo Project

Volunteer Needs Site

Replace default theme

Download solid bootstrap theme

<http://bootstrapzero.com/bootstrap-template/solid>



Summary