

Technology Stack Overview



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Roadmap

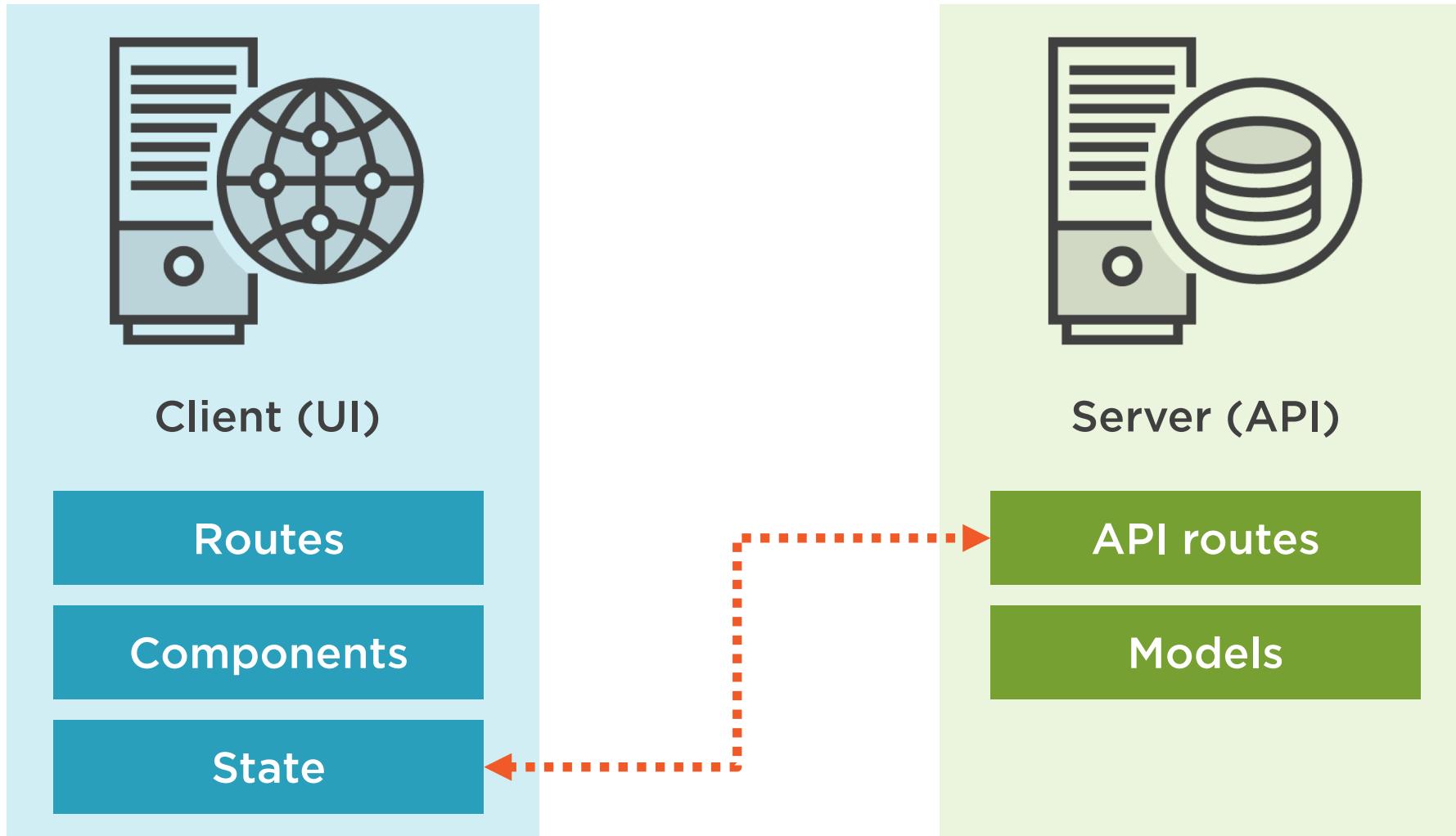


Architectural Approach

- UI layer
- RESTful API
- Data access
- Separation of concerns



Roadmap



Core Frameworks



Core Frameworks and Libraries



Vue.js

Express.js

Node.js



Node.js



Introduction to Node.js -
<http://bit.ly/2ipLt21>

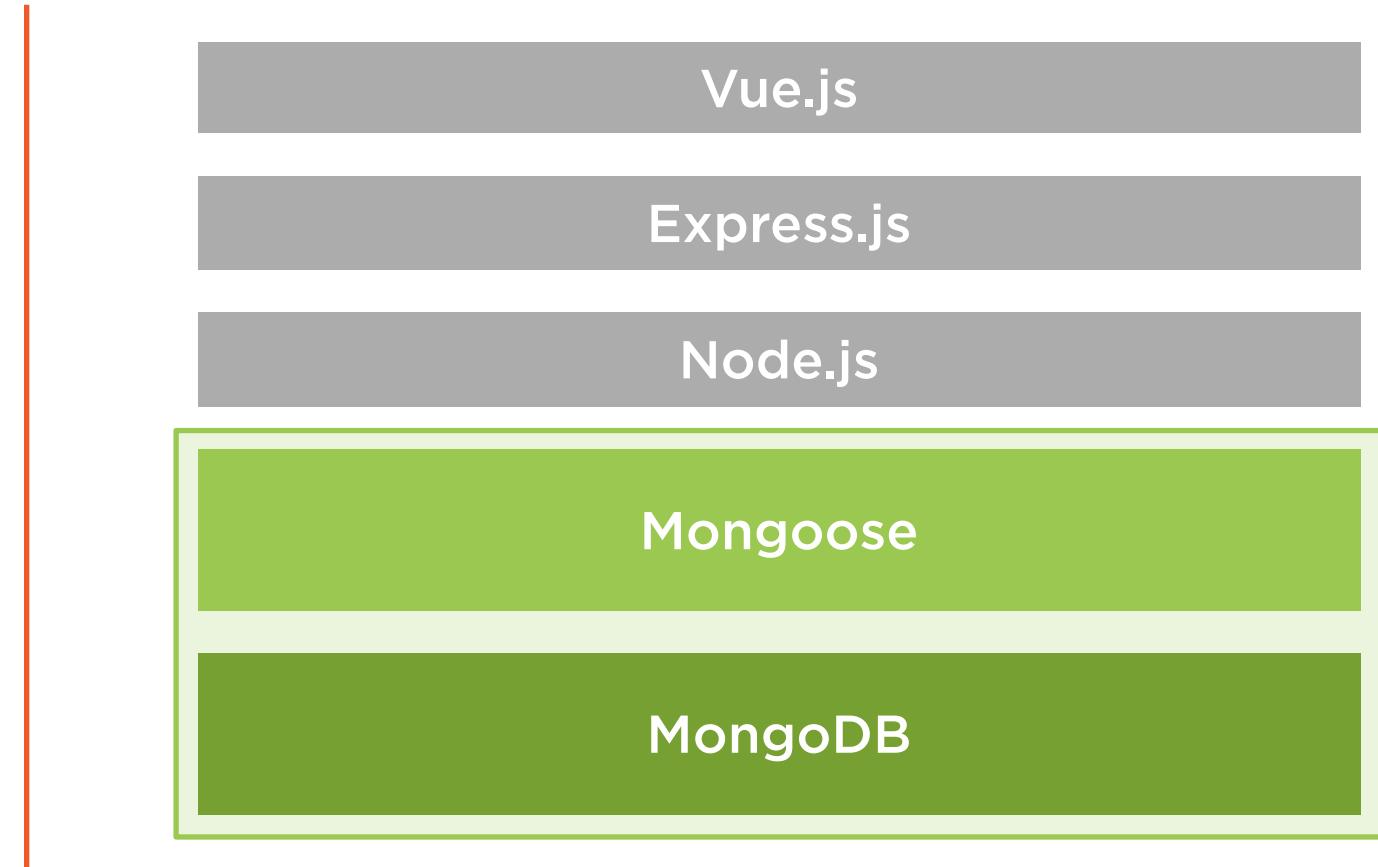
Building Web Applications with Node.js
and Express 4.0 -
<http://bit.ly/2iMNh19>



Data Access Layer



Mongoose for MongoDB



Mongoose Courses



Introduction to Mongoose for Node.js and MongoDB



Moving Forward with Mongoose.js



<https://app.pluralsight.com/library/search?q=mongoose>



MongoDB Courses



Introduction to MongoDB



MongoDB Administration



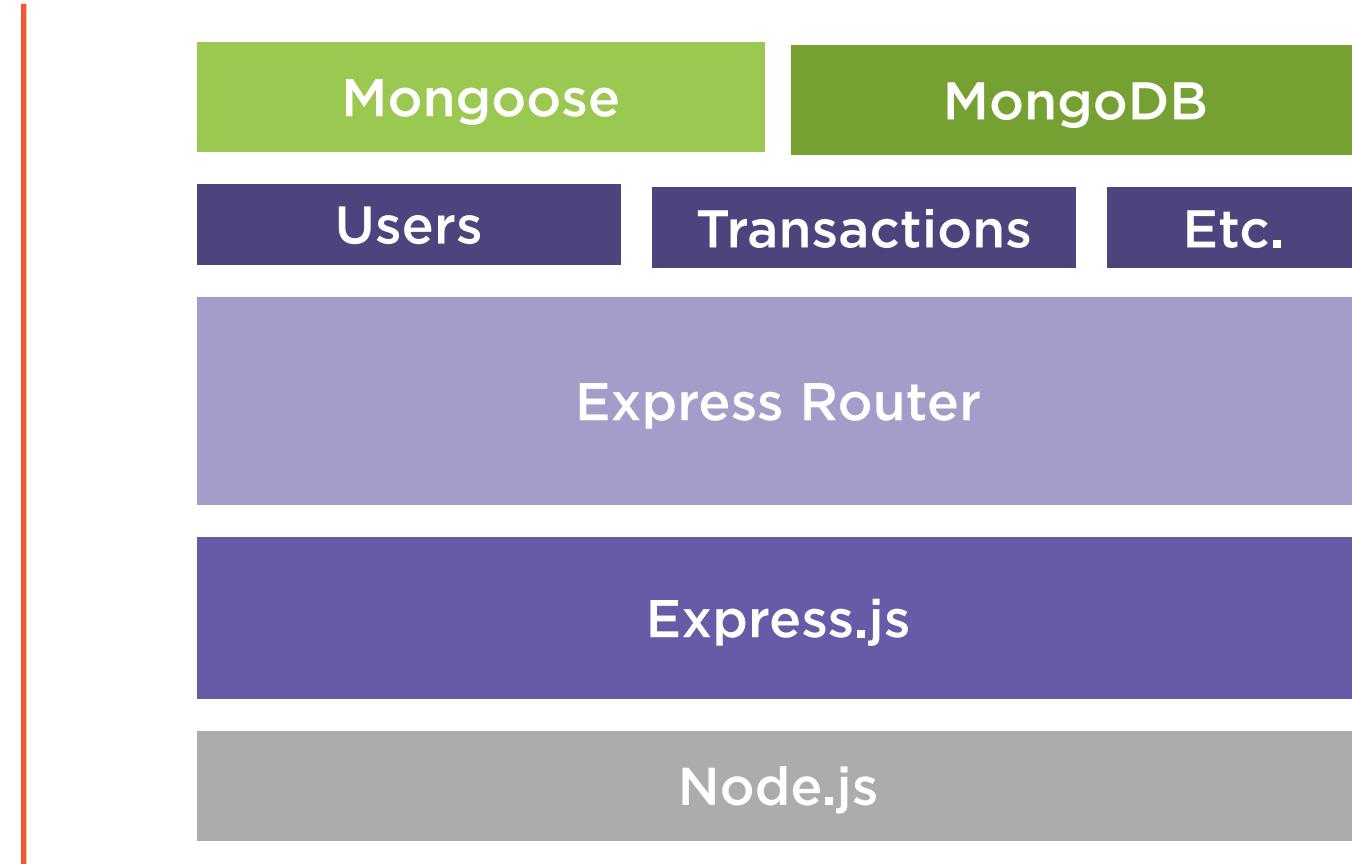
<https://app.pluralsight.com/library/search?q=mongodb>



API Layer



API Project



User Experience



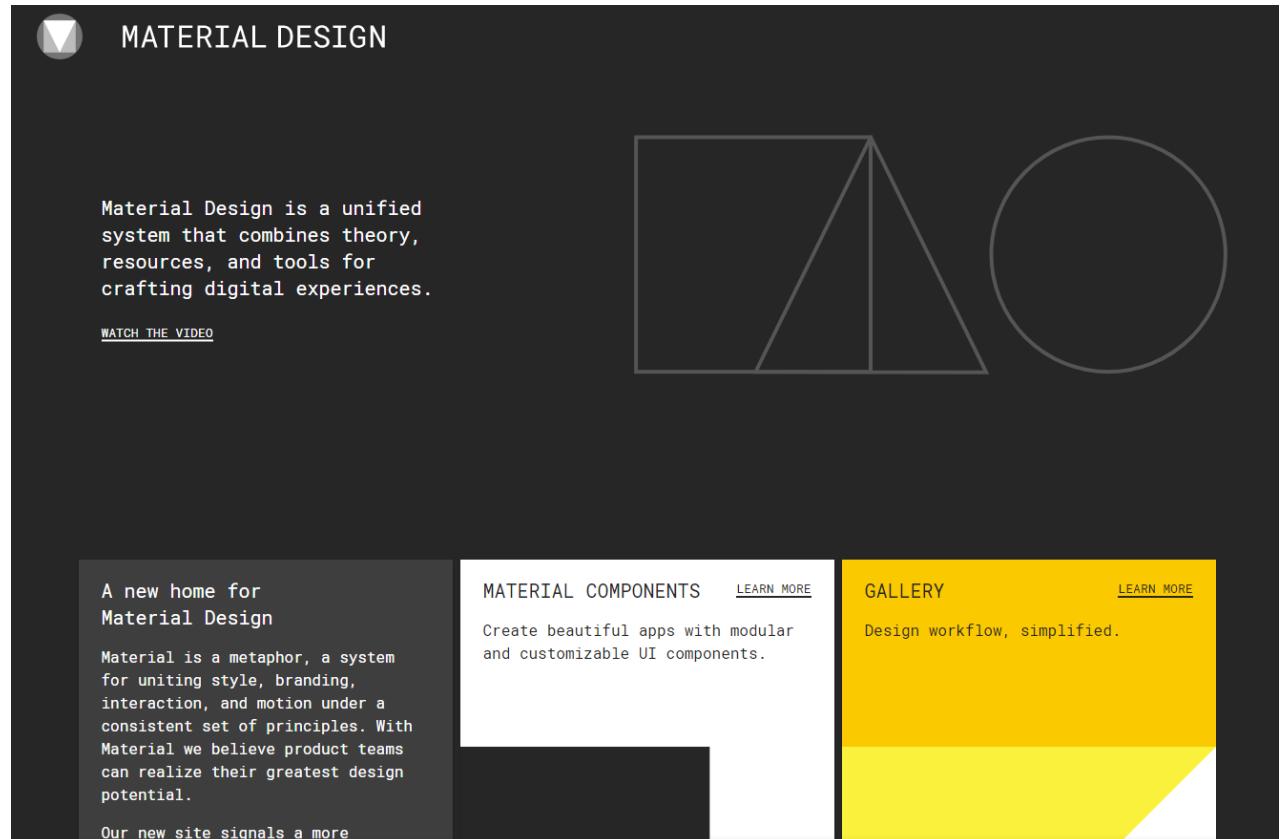


**Horrible website visit?
Did it make you want to cry...
Or scream...
Or say “seriously?”**



Material Design

material.io
material.io/guidelines



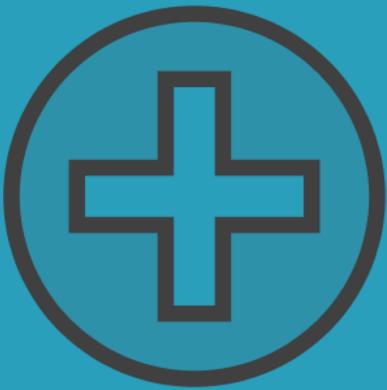
The image shows the Material Design landing page. At the top, there is a dark header with the Material Design logo and the text 'MATERIAL DESIGN'. Below the header, there is a large text block that reads: 'Material Design is a unified system that combines theory, resources, and tools for crafting digital experiences.' Below this text is a 'WATCH THE VIDEO' button. To the right of the text, there is a graphic of a square divided into two triangles and a circle. Below the main text, there are three cards: 'A new home for Material Design' (with a dark background), 'MATERIAL COMPONENTS' (with a white background), and 'GALLERY' (with a yellow background). Each card has a 'LEARN MORE' button.



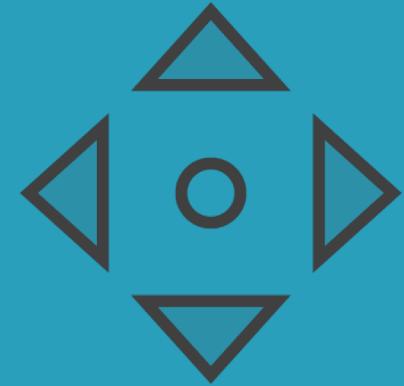
Material Design Principles



Material is the metaphor



Bold, graphic, intentional

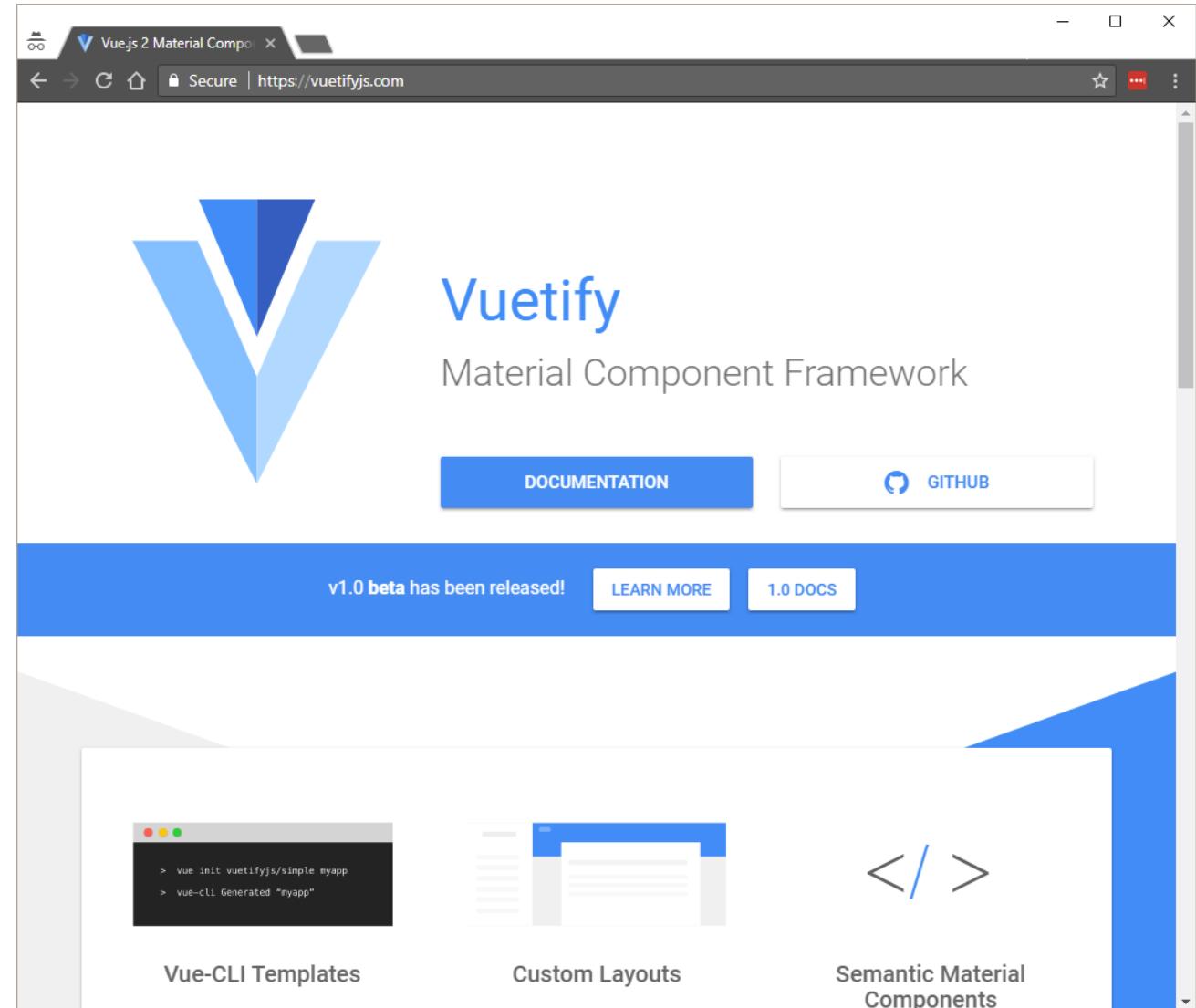


Motion provides meaning

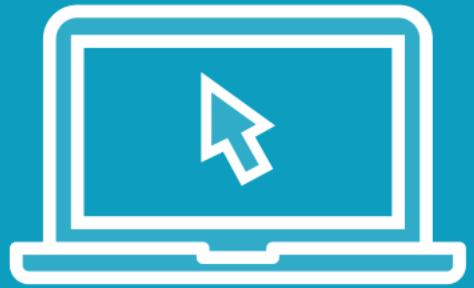
<https://material.io/guidelines/#introduction-principles>



Vuetify
vuetifyjs.com



Demo



Vuetify Review



Other Libraries We'll Use



Packages to Install



vue-cli

```
npm install -g vue-cli
```



eslint

```
npm install --save-dev eslint
```



webpack

```
npm install --save-dev webpack
```



Packages to Install



axios

```
npm install -s axios
```



body-parser

```
npm install -s body-parser
```



morgan

```
npm install -s morgan
```



Packages to Install



nodemon

```
npm install -g nodemon
```



cors

```
npm install -s cors
```



bcryptjs

```
npm install -s bcryptjs
```

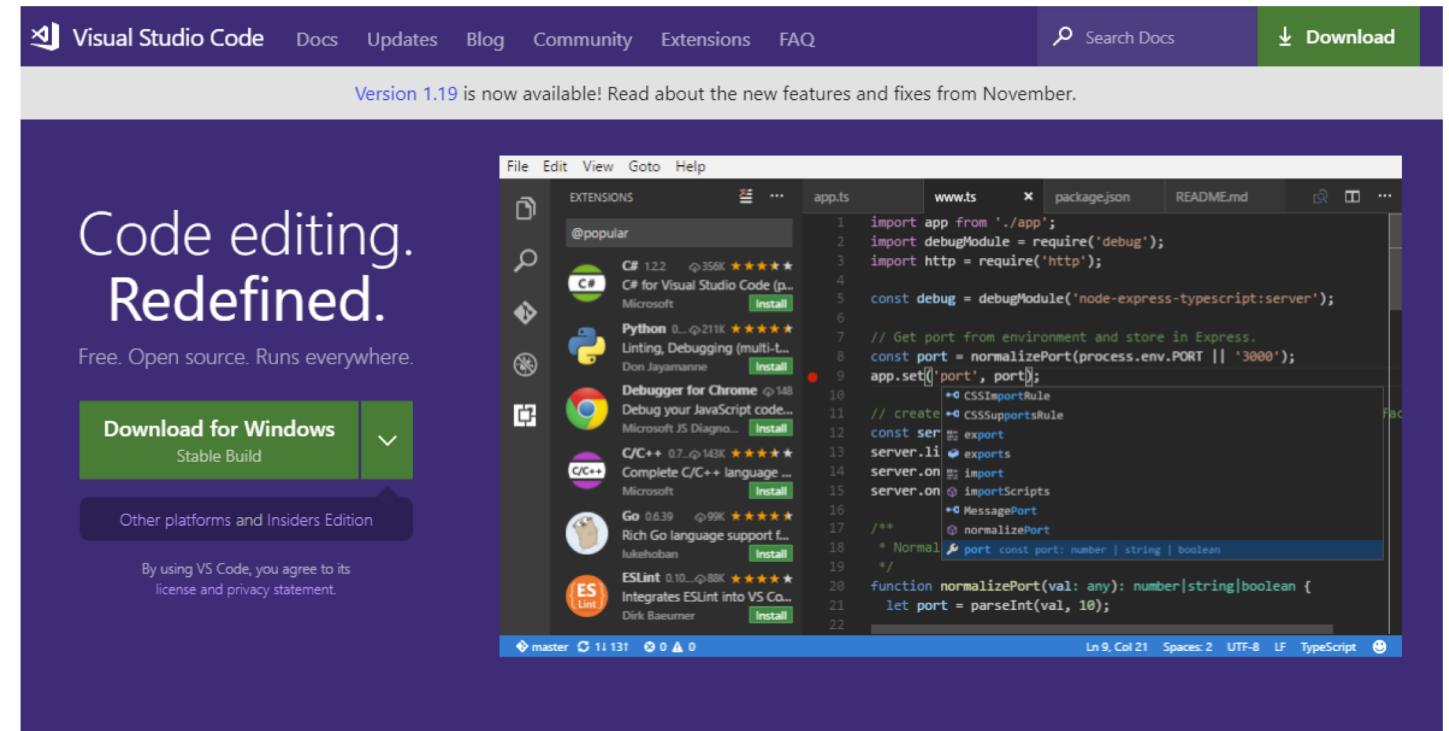


Development Tools



Visual Studio Code

code.visualstudio.com



The image shows the official Visual Studio Code website and a screenshot of the VS Code interface. The website features a purple header with the Visual Studio Code logo and navigation links for Docs, Updates, Blog, Community, Extensions, and FAQ. A search bar and a 'Download' button are also present. The main content area has a dark purple background with the text 'Code editing. Redefined.' and 'Free. Open source. Runs everywhere.' Below this are download buttons for Windows (Stable Build and Other platforms and Insiders Edition) and a note about agreeing to the license and privacy statement. The screenshot shows the VS Code interface with multiple tabs open: 'app.ts', 'www.ts', 'package.json', and 'README.md'. The 'Extensions' sidebar is visible on the left, listing popular extensions like C# and Python. The code editor shows a TypeScript file with syntax highlighting and code completion. The status bar at the bottom provides build and file information.



IntelliSense



Debugging



Built-in Git

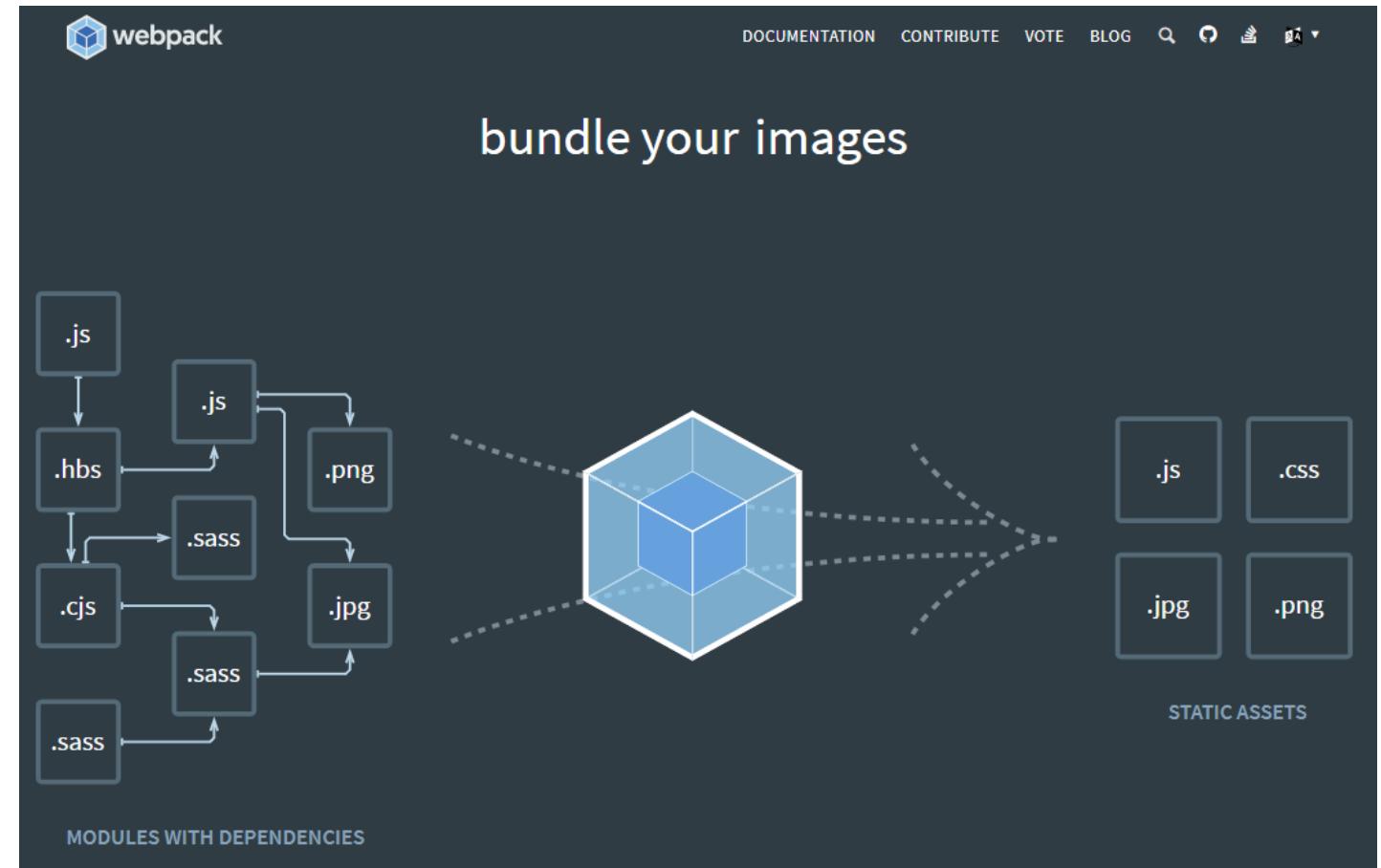


Extensions



Webpack

webpack.js.org



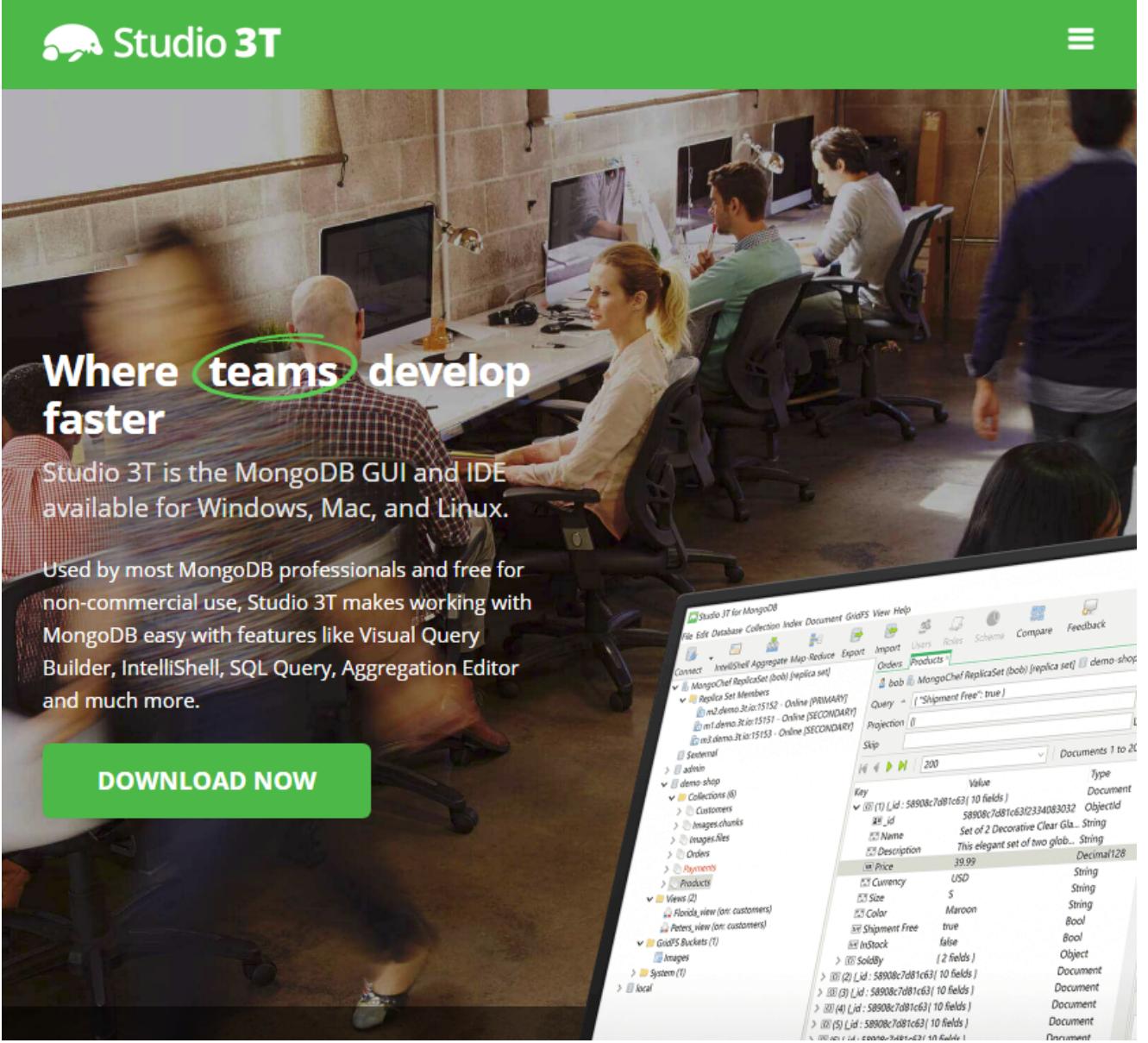
Postman

www.getpostman.com



Studio 3T

studio3t.com



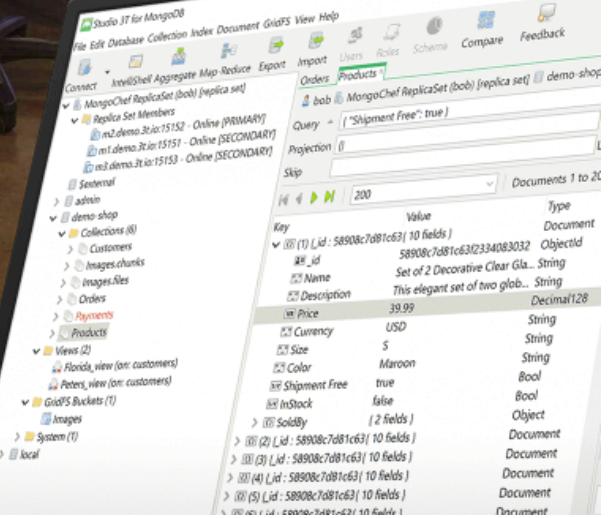
Studio 3T

Where **teams** develop faster

Studio 3T is the MongoDB GUI and IDE available for Windows, Mac, and Linux.

Used by most MongoDB professionals and free for non-commercial use, Studio 3T makes working with MongoDB easy with features like Visual Query Builder, IntelliShell, SQL Query, Aggregation Editor and much more.

[DOWNLOAD NOW](#)

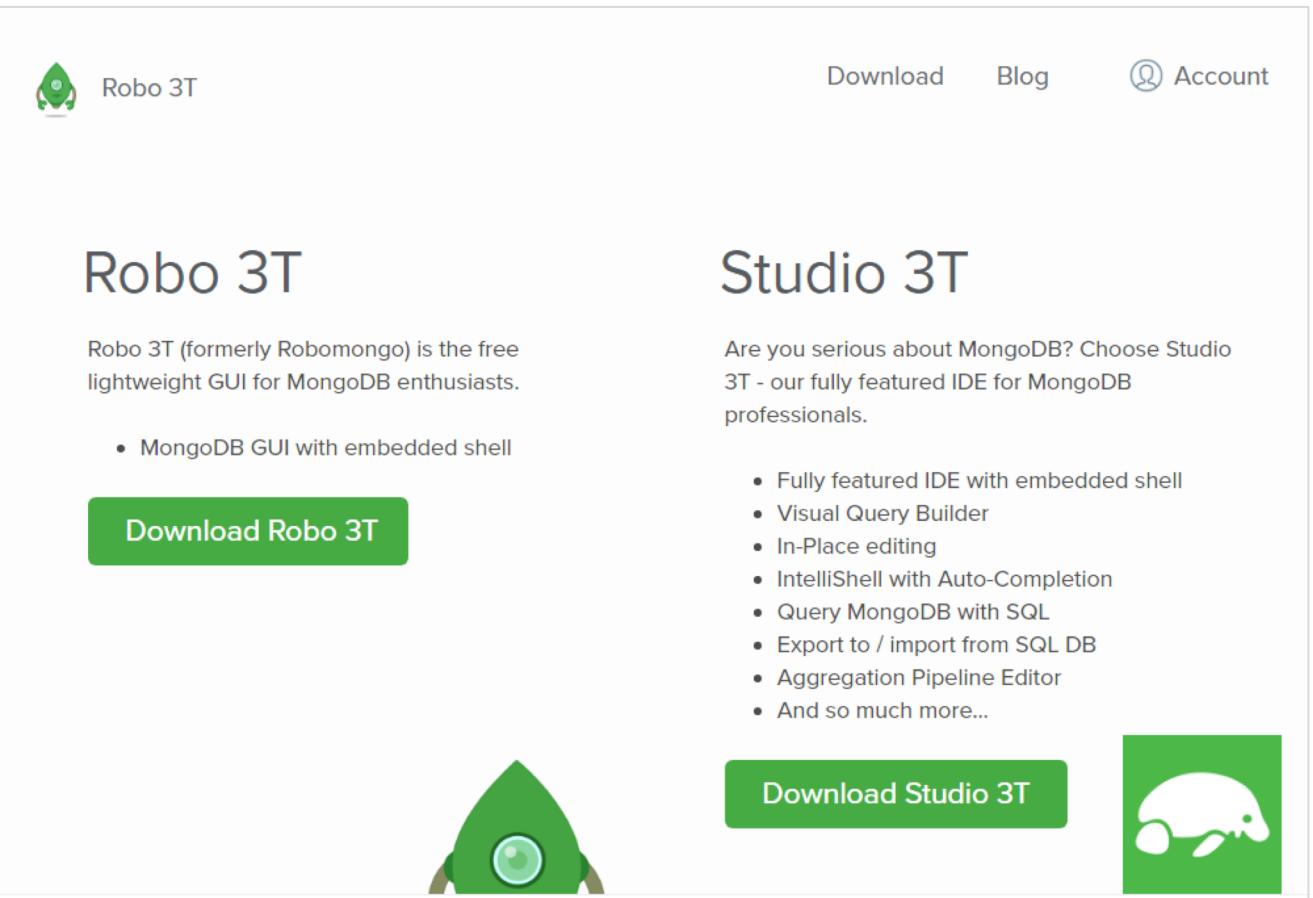


Key	Value	Type
58908c7d81c63	ObjectID	Object
58908c7d81c6303	String	String
58908c7d81c630323408303	String	String
39.99	Decimal128	Decimal
USD	String	String
S	String	String
Maroon	String	String
true	Bool	Bool
false	Bool	Bool
200	Number	Number
Documents 1 to 200	Text	Text



Robo 3T

robomongo.org



The image shows the official landing page for Robo 3T and Studio 3T. The page is divided into two main sections. On the left, the Robo 3T section features a green icon of a robot head, the text 'Robo 3T', a description of the software as a free, lightweight MongoDB GUI, and a bullet point about its MongoDB GUI with embedded shell. It includes a green 'Download Robo 3T' button and a small green robot head icon. On the right, the Studio 3T section features a white icon of a robot head, the text 'Studio 3T', a description of it as a fully featured IDE for MongoDB professionals, and a list of its features including a fully featured IDE with embedded shell, Visual Query Builder, In-Place editing, IntelliShell with Auto-Completion, Query MongoDB with SQL, Export to / import from SQL DB, Aggregation Pipeline Editor, and more. It includes a green 'Download Studio 3T' button and a white robot head icon. The top right of the page has links for 'Download', 'Blog', and 'Account'.

Robo 3T

Robo 3T (formerly Robomongo) is the free lightweight GUI for MongoDB enthusiasts.

- MongoDB GUI with embedded shell

[Download Robo 3T](#)

Studio 3T

Are you serious about MongoDB? Choose Studio 3T - our fully featured IDE for MongoDB professionals.

- Fully featured IDE with embedded shell
- Visual Query Builder
- In-Place editing
- IntelliShell with Auto-Completion
- Query MongoDB with SQL
- Export to / import from SQL DB
- Aggregation Pipeline Editor
- And so much more...

[Download Studio 3T](#)



Time to Get Started



Groundwork - Tech Stack Overview

Roadmap of core frameworks

Supporting libraries

Development tools

Time to start building!

