คพ494

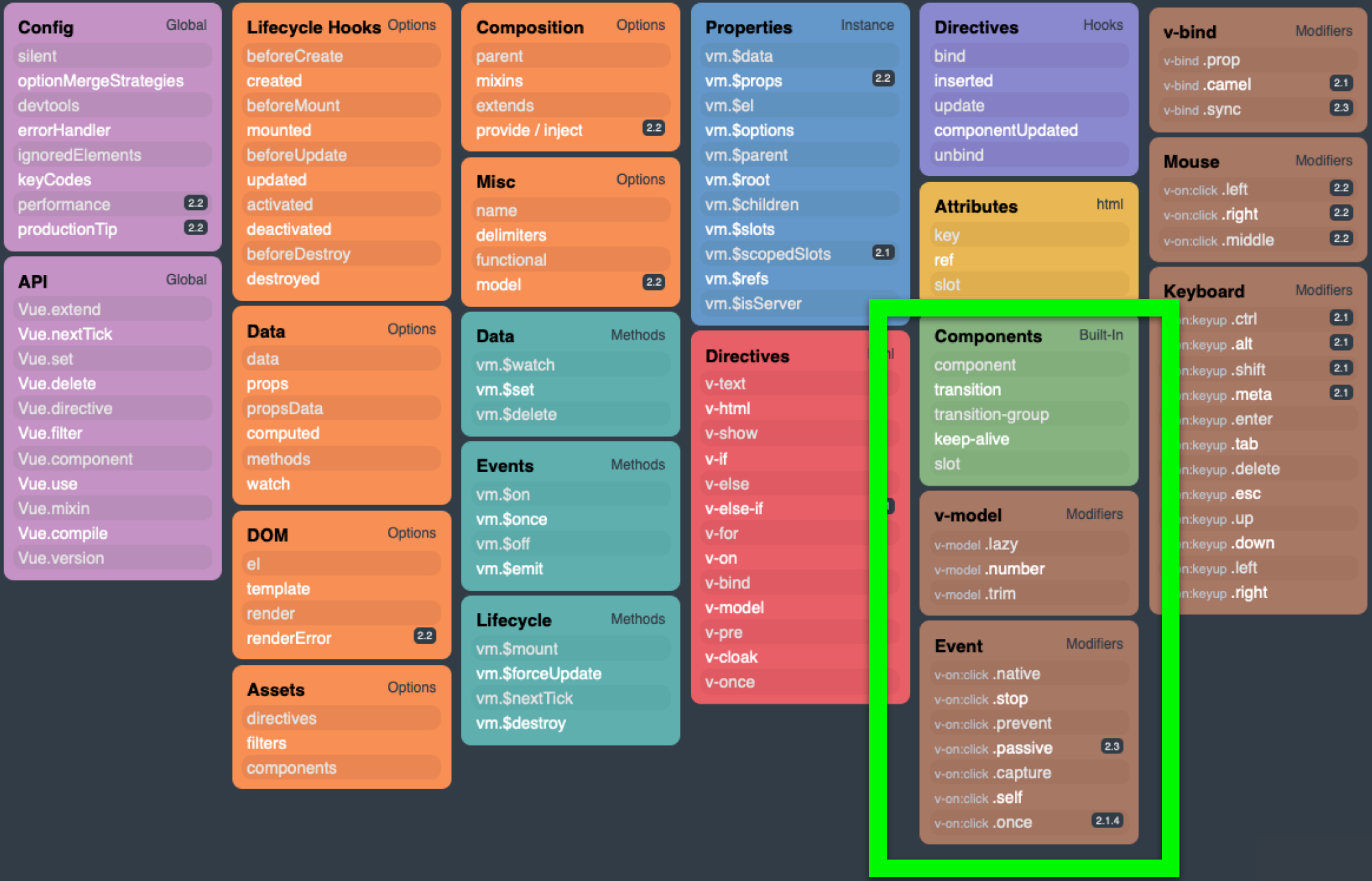
หัวข้อพิเศษทางวิทยาการคอมพิวเตอร์ 1

COMPONENT

Standard Library

COURSE OUTLINE

- Introduction
  - instance, syntax, setup
- Interact with DOM
  - binding, event, styling
- v-if, v-for
- Module
- **Component**
- FORM
- Animations
- Http
- Routing
- Vue Native



Config Global
silent
optionMergeStrategies
devtools
errorHandler
ignoredElements
keyCodes
performance 2.2
productionTip 2.2

API Global
Vue.extend
Vue.nextTick
Vue.set
Vue.delete
Vue.directive
Vue.filter
Vue.component
Vue.use
Vue.mixin
Vue.compile
Vue.version

Lifecycle Hooks Options
beforeCreate
created
beforeMount
mounted
beforeUpdate
updated
activated
deactivated
beforeDestroy
destroyed

Data Options
data
props
propsData
computed
methods
watch

DOM Options
el
template
render
renderError 2.2

Assets Options
directives
filters
components

Composition Options
parent
mixins
extends
provide / inject 2.2

Misc Options
name
delimiters
functional
model 2.2

Data Methods
vm.$watch
vm.$set
vm.$delete

Events Methods
vm.$on
vm.$once
vm.$off
vm.$emit

Lifecycle Methods
vm.$mount
vm.$forceUpdate
vm.$nextTick
vm.$destroy

Properties Instance
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vm.$props 2.2
vm.$el
vm.$options
vm.$parent
vm.$root
vm.$children
vm.$slots
vm.$scopedSlots 2.1
vm.$refs
vm.$isServer

Directives l
v-text
v-html
v-show
v-if
v-else
v-else-if
v-for
v-on
v-bind
v-model
v-pre
v-cloak
v-once

Directives Hooks
bind
inserted
update
componentUpdated
unbind

Attributes html
key
ref
slot

Components Built-In
component
transition
transition-group
keep-alive
slot

v-model Modifiers
v-model .lazy
v-model .number
v-model .trim

Event Modifiers
v-on:click .native
v-on:click .stop
v-on:click .prevent
v-on:click .passive 2.3
v-on:click .capture
v-on:click .self
v-on:click .once 2.1.4

v-bind Modifiers
v-bind .prop
v-bind .camel 2.1
v-bind .sync 2.3

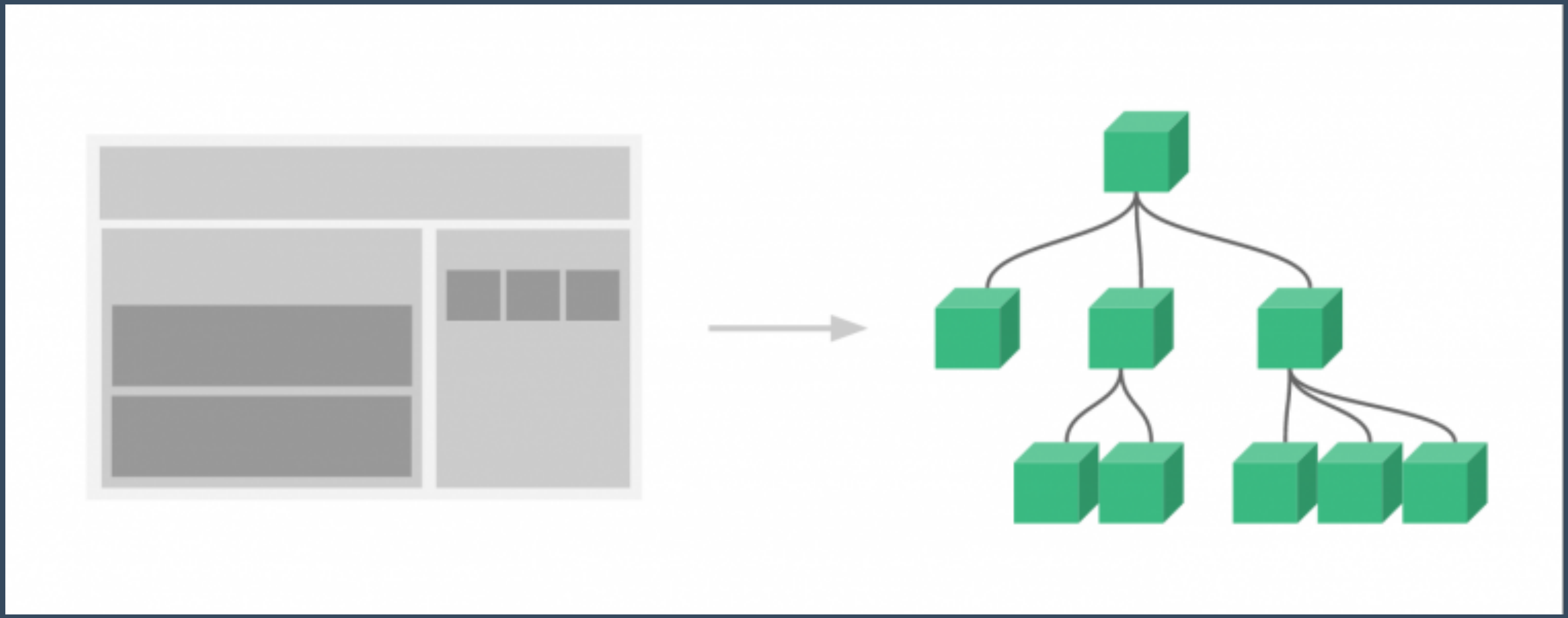
Mouse Modifiers
v-on:click .left 2.2
v-on:click .right 2.2
v-on:click .middle 2.2

Keyboard Modifiers
n:keyup .ctrl 2.1
n:keyup .alt 2.1
n:keyup .shift 2.1
n:keyup .meta 2.1
n:keyup .enter
n:keyup .tab
n:keyup .delete
n:keyup .esc
n:keyup .up
n:keyup .down
n:keyup .left
n:keyup .right

https://vuejs-tips.github.io/cheatsheet/

COMPONENTS BASICS

- Component = HTML + CSS + JS
- เป็นการกำหนดชิ้นส่วนการแสดงผลใน vue application ซึ่งสามารถแบ่งการทำงานให้เป็นอิสระต่อกันได้
- สามารถแยกเป็นไฟล์ของแต่ละ Component ได้ โดยใช้นามสกุล **.vue**
- มีองค์ประกอบ 3 ส่วน ได้แก่ <template> <script> <style>



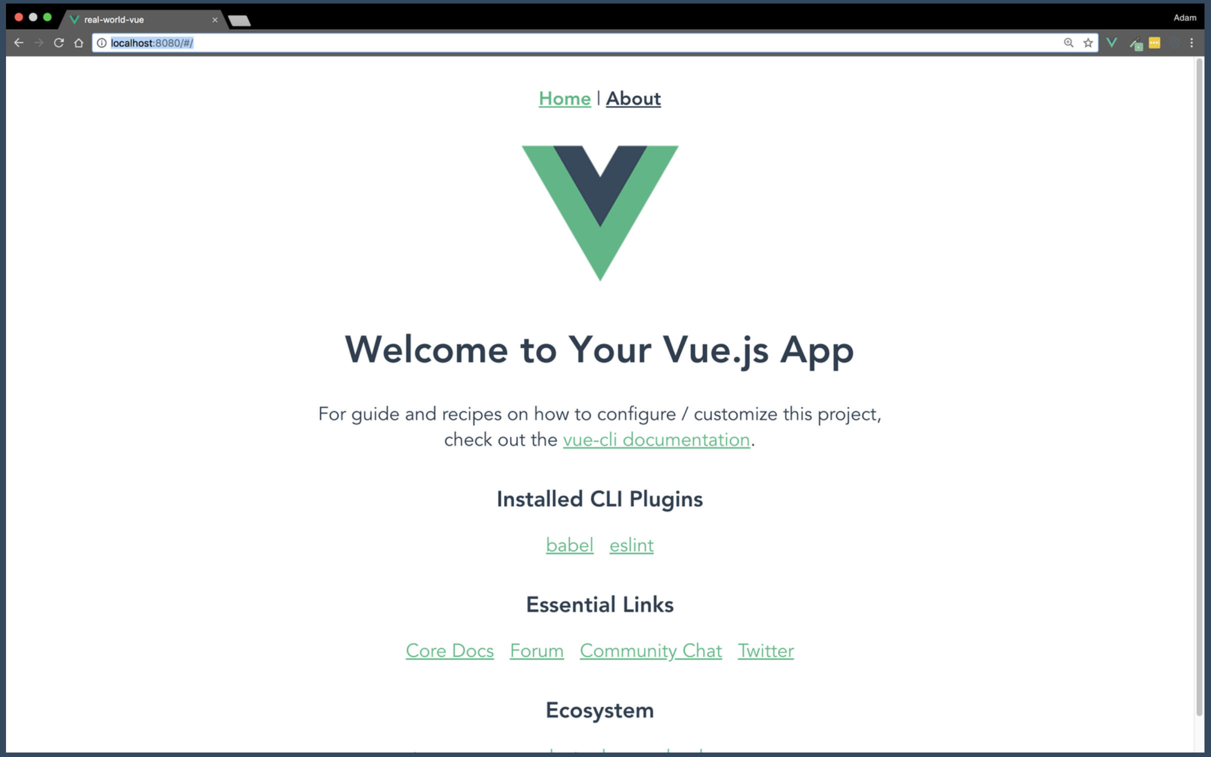
VUE

IN THE REAL WORLD

REAL DEVELOPMENT VUE-CLI

- $ vue create real-world-vue
- $ cd real-world-vue
- $ npm run serve
- localhost:8080

- $ vue ui



Home | About

Welcome to Your Vue.js App

For guide and recipes on how to configure / customize this project,
check out the vue-cli documentation.

Installed CLI Plugins

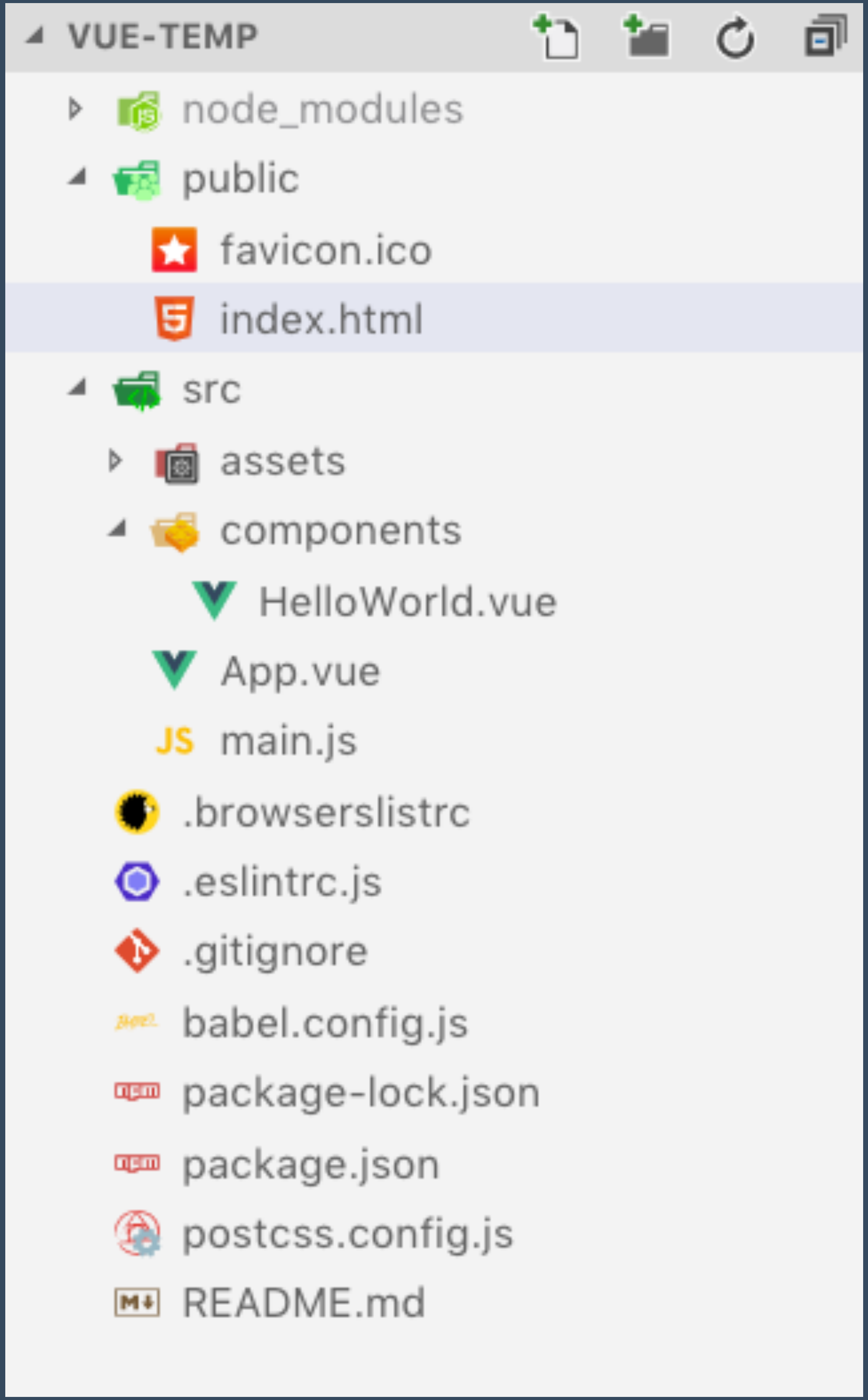
babel eslint

Essential Links

Core Docs Forum Community Chat Twitter

Ecosystem

VUE PROJECT

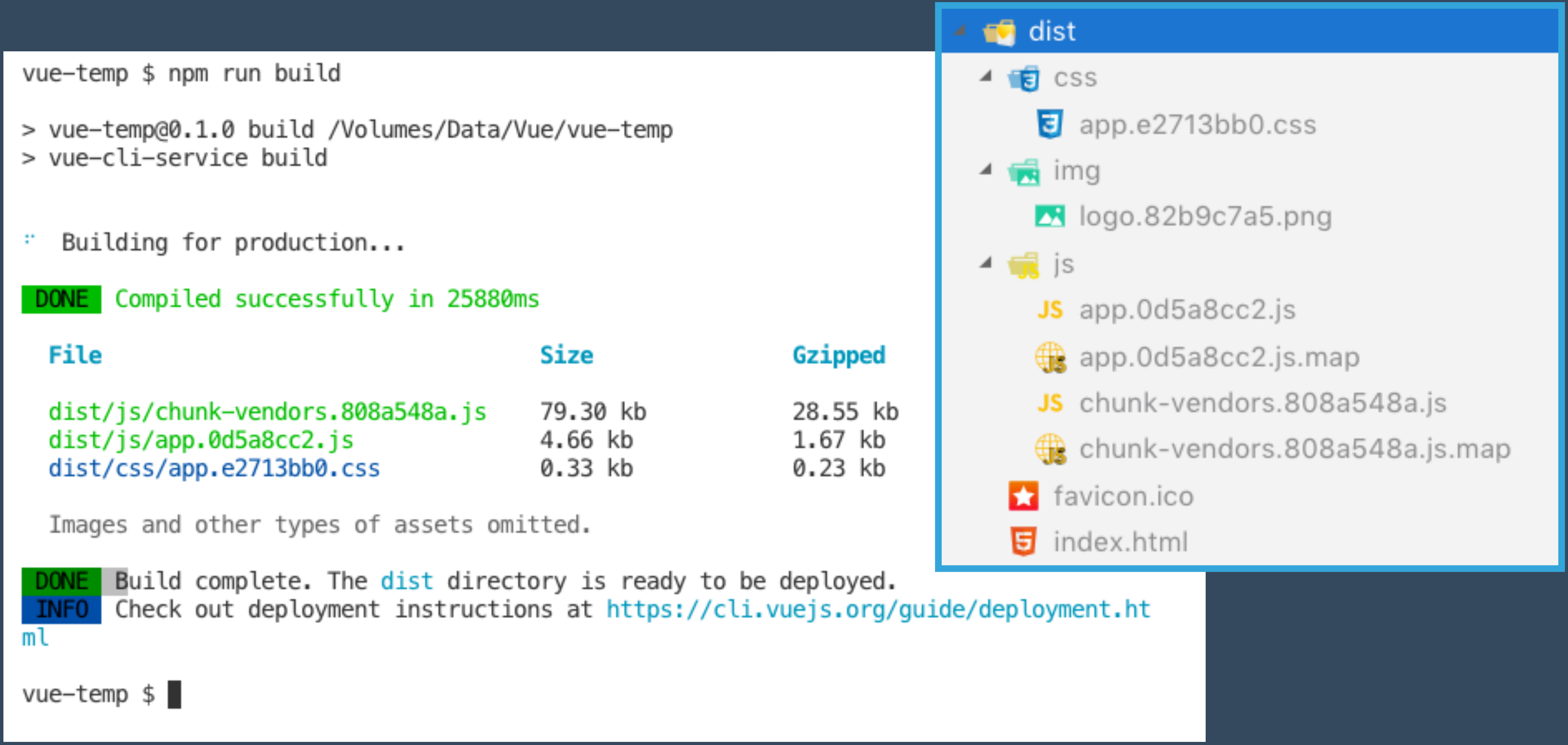


```
VUE-TEMP
  node_modules
  public
    favicon.ico
    index.html
  src
    assets
    components
      HelloWorld.vue
    App.vue
    main.js
  .browserslistrc
  .eslintrc.js
  .gitignore
  babel.config.js
  package-lock.json
  package.json
  postcss.config.js
  README.md
```

- **node_modules** : libraries
- **public** : any static assets you don't want to be run through Webpack when we build our project
- **assets** : directory so they can be optimized by Webpack
- **components** : components, or building blocks, of our Vue app.
- **App.vue** : file is the root component that all other components are nested within
- **main.js** : file is what renders our App.vue component and mounts it to the DOM

REAL DEVELOPMENT VUE-CLI

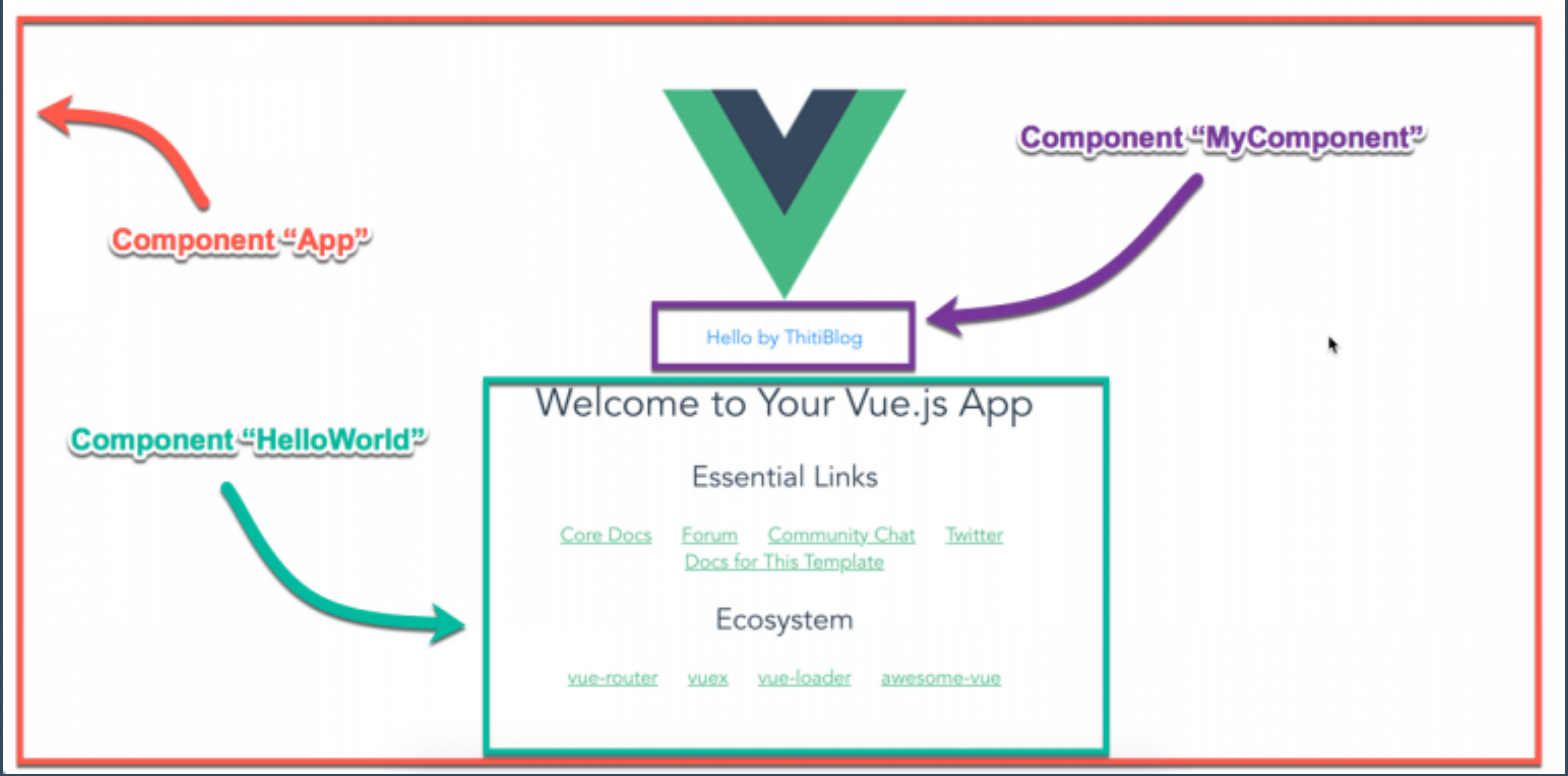
- $ npm run build
- This will build our project, and when it’s complete, we see it says, “The dist directory is ready to be deployed”.



```
vue-temp $ npm run build

> vue-temp@0.1.0 build /Volumes/Data/Vue/vue-temp
> vue-cli-service build


:  Building for production...

 DONE  Compiled successfully in 25880ms

  File                                 Size               Gzipped

  dist/js/chunk-vendors.808a548a.js    79.30 kb           28.55 kb
  dist/js/app.0d5a8cc2.js              4.66 kb            1.67 kb
  dist/css/app.e2713bb0.css            0.33 kb            0.23 kb

  Images and other types of assets omitted.

 DONE  Build complete. The dist directory is ready to be deployed.
 INFO  Check out deployment instructions at https://cli.vuejs.org/guide/deployment.ht
ml

vue-temp $ █
```

```
dist
  css
    app.e2713bb0.css
  img
    logo.82b9c7a5.png
  js
    app.0d5a8cc2.js
    app.0d5a8cc2.js.map
    chunk-vendors.808a548a.js
    chunk-vendors.808a548a.js.map
  favicon.ico
  index.html
```

COMPONENTS BASICS



Hello by ThitiBlog

Welcome to Your Vue.js App

Essential Links

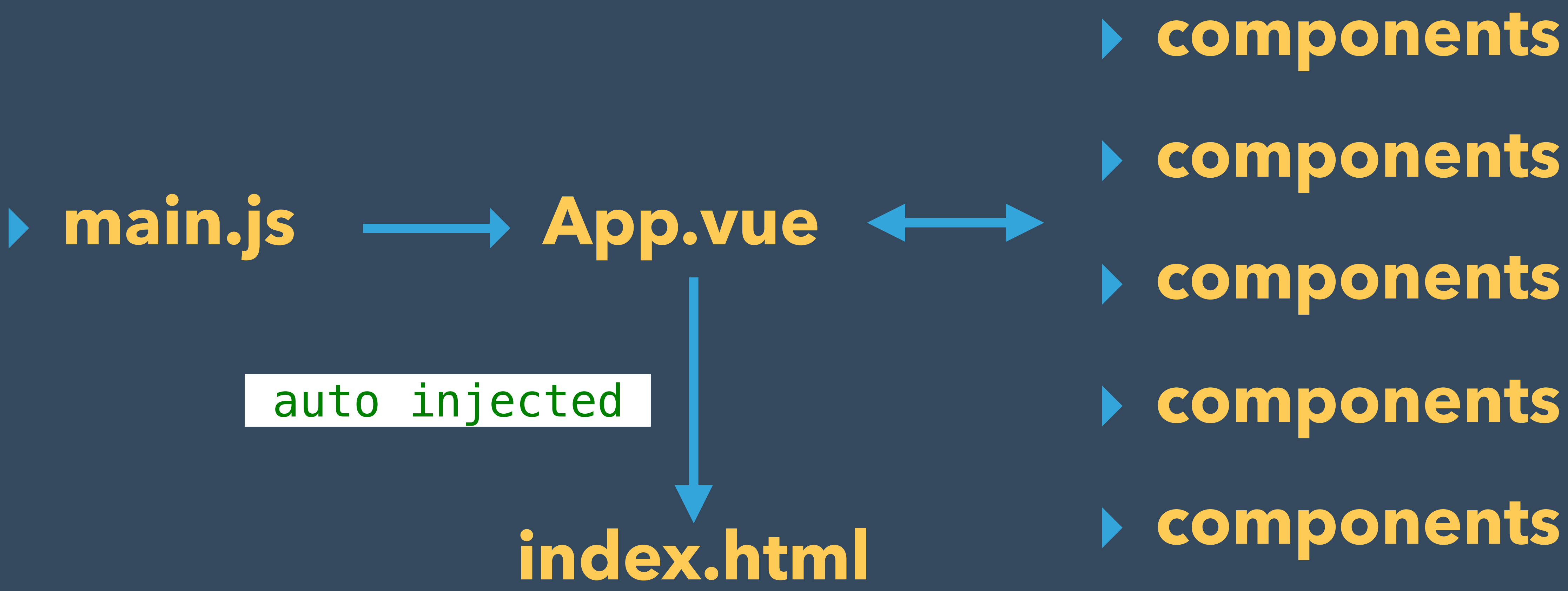
Core Docs Forum Community Chat Twitter
Docs for This Template

Ecosystem

vue-router vuex vue-loader awesome-vue

.VUE FILE

- .vue file is a Single File Component. It contains 3 chunks of code: HTML, CSS and JavaScript.



- main.js

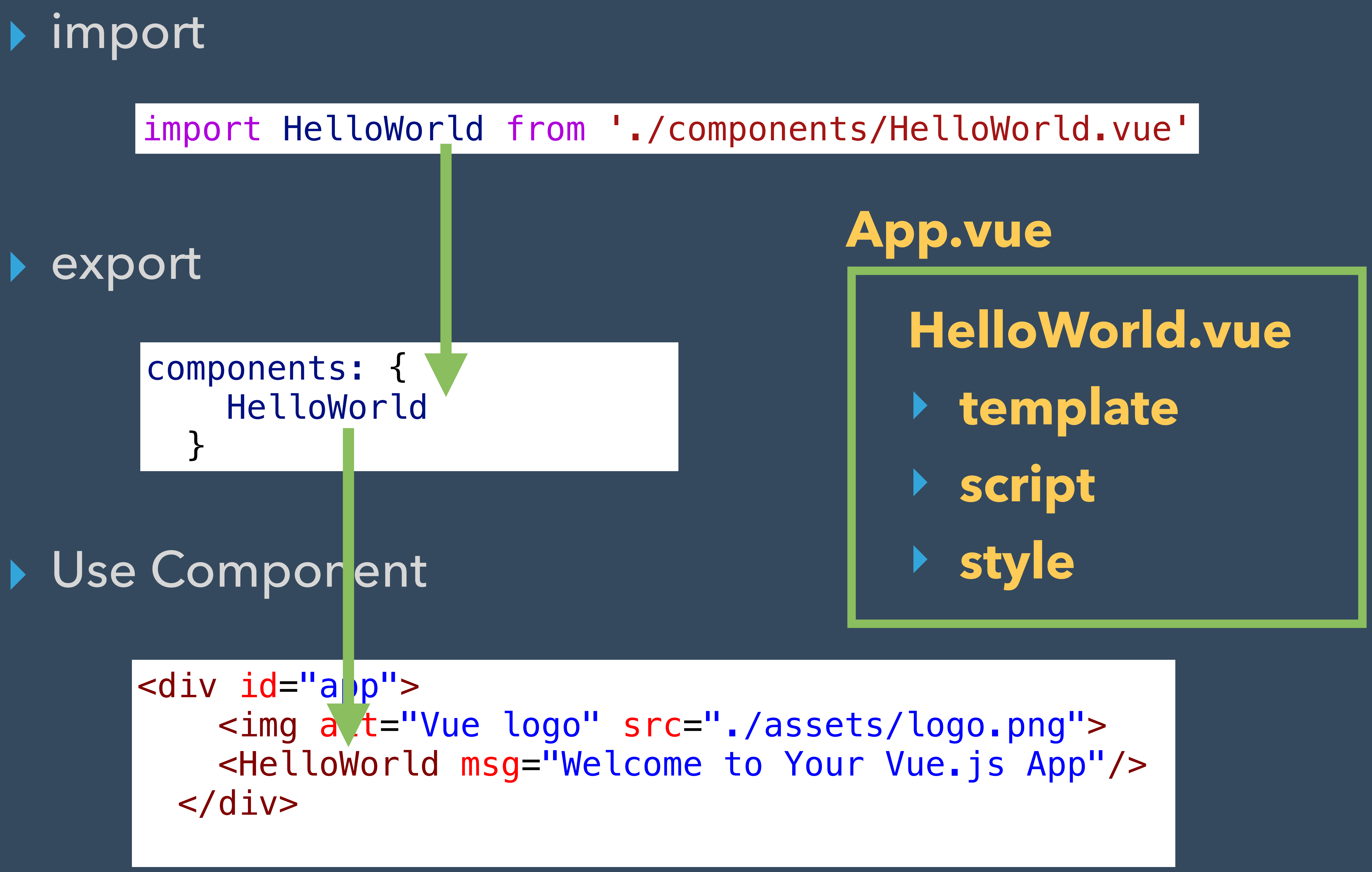
App.vue

auto injected

index.html

- components
- components
- components
- components
- components

COMPONENT CALL COMPONENTS



- import

```
import HelloWorld from './components/HelloWorld.vue'
```

- export

```
components: {
    HelloWorld
  }
```

- Use Component

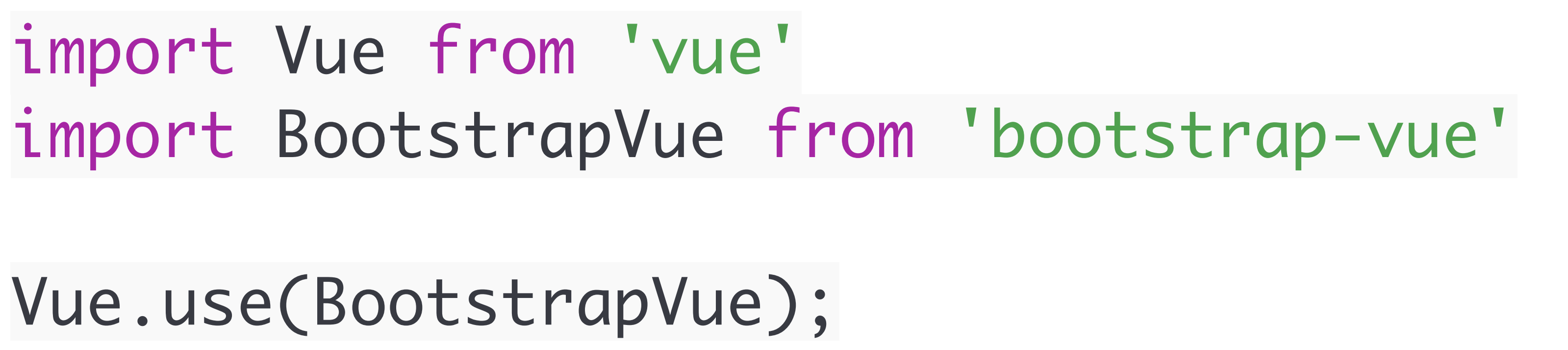
```
<div id="app">
    <img alt="Vue logo" src="./assets/logo.png">
    <HelloWorld msg="Welcome to Your Vue.js App"/>
  </div>
```

App.vue

HelloWorld.vue

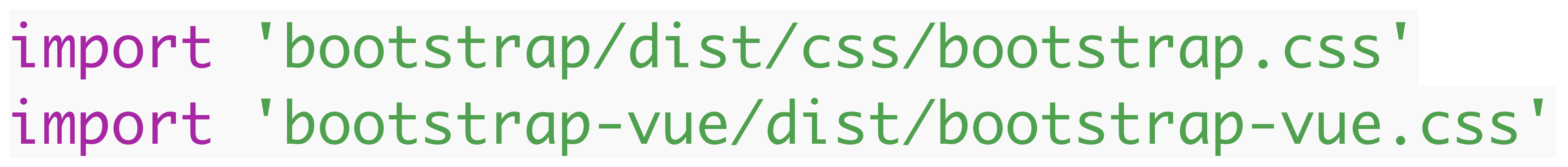
- **template**
- **script**
- **style**

EXAMPLE : ADD COMPONENTS

- https://bootstrap-vue.js.org/docs
- $npm i bootstrap-vue
- 

```
import Vue from 'vue'
import BootstrapVue from 'bootstrap-vue'

Vue.use(BootstrapVue);
```

- **main.js**



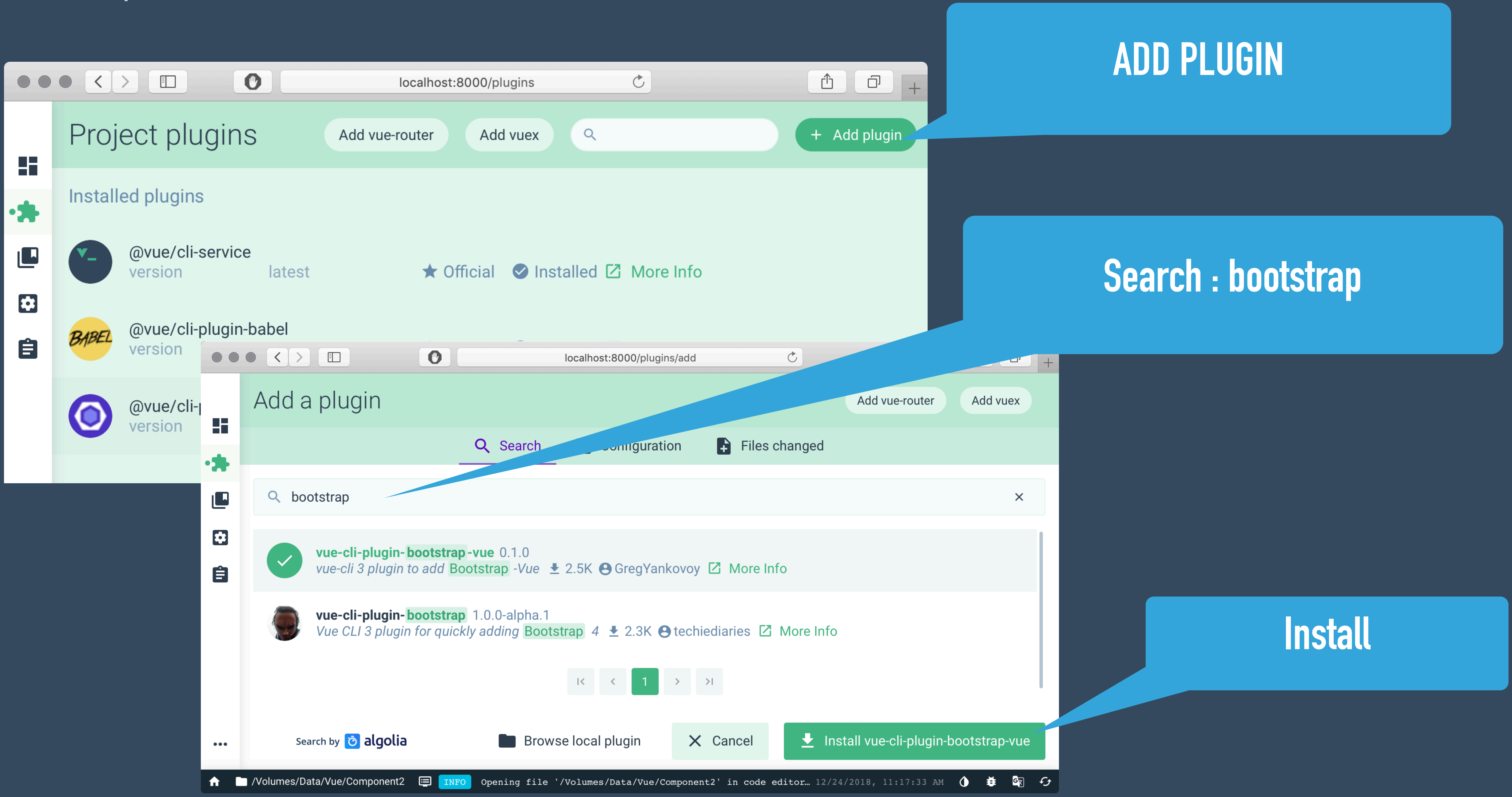
```
import 'bootstrap/dist/css/bootstrap.css'
import 'bootstrap-vue/dist/bootstrap-vue.css'
```

- **main.js**

EXAMPLE : ADD COMPONENTS

https://bootstrap-vue.js.org/

- Create Vue Project
  - **$vue create …**
  - **$vue ui**



ADD PLUGIN

Search : bootstrap

Install

localhost:8000/plugins

Project plugins

Installed plugins

@vue/cli-service version latest ★ Official ✓ Installed More Info

@vue/cli-plugin-babel version

@vue/cli-… version

localhost:8000/plugins/add

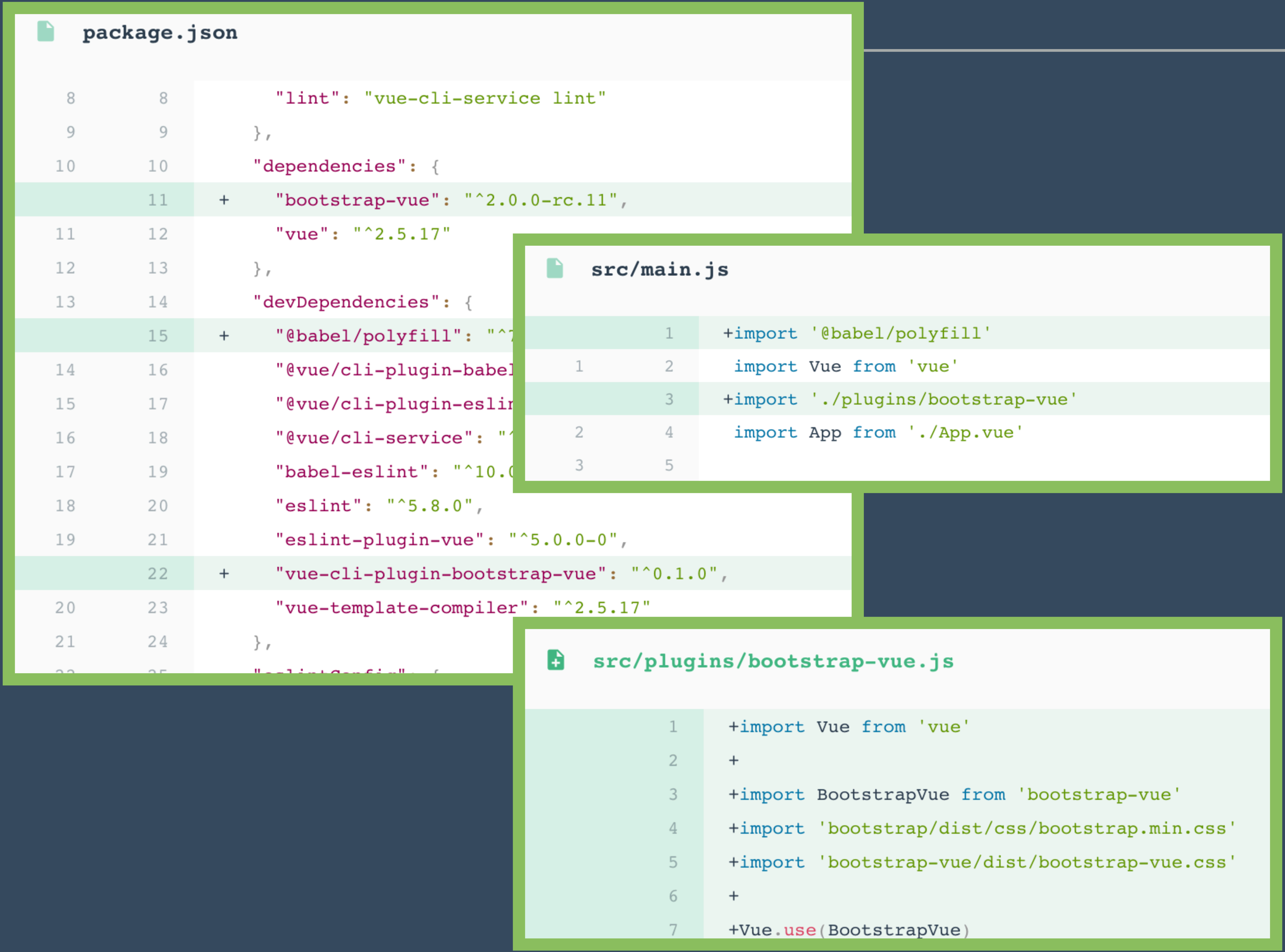
Add a plugin

Search field: bootstrap

vue-cli-plugin-bootstrap-vue 0.1.0
vue-cli 3 plugin to add Bootstrap -Vue 2.5K GregYankovoy More Info

vue-cli-plugin-bootstrap 1.0.0-alpha.1
Vue CLI 3 plugin for quickly adding Bootstrap 4 2.3K techiediaries More Info

```
/Volumes/Data/Vue/Component2   INFO  Opening file '/Volumes/Data/Vue/Component2' in code editor… 12/24/2018, 11:17:33 AM
```



package.json

```
    "lint": "vue-cli-service lint"
  },
  "dependencies": {
+   "bootstrap-vue": "^2.0.0-rc.11",
    "vue": "^2.5.17"
  },
  "devDependencies": {
+   "@babel/polyfill": "^7
    "@vue/cli-plugin-babel
    "@vue/cli-plugin-eslin
    "@vue/cli-service": "^
    "babel-eslint": "^10.0
    "eslint": "^5.8.0",
    "eslint-plugin-vue": "^5.0.0-0",
+   "vue-cli-plugin-bootstrap-vue": "^0.1.0",
    "vue-template-compiler": "^2.5.17"
  },
  "eslintConfig": {
```

src/main.js

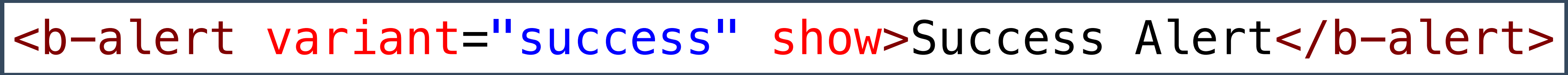
```
+import '@babel/polyfill'
 import Vue from 'vue'
+import './plugins/bootstrap-vue'
 import App from './App.vue'

```

src/plugins/bootstrap-vue.js

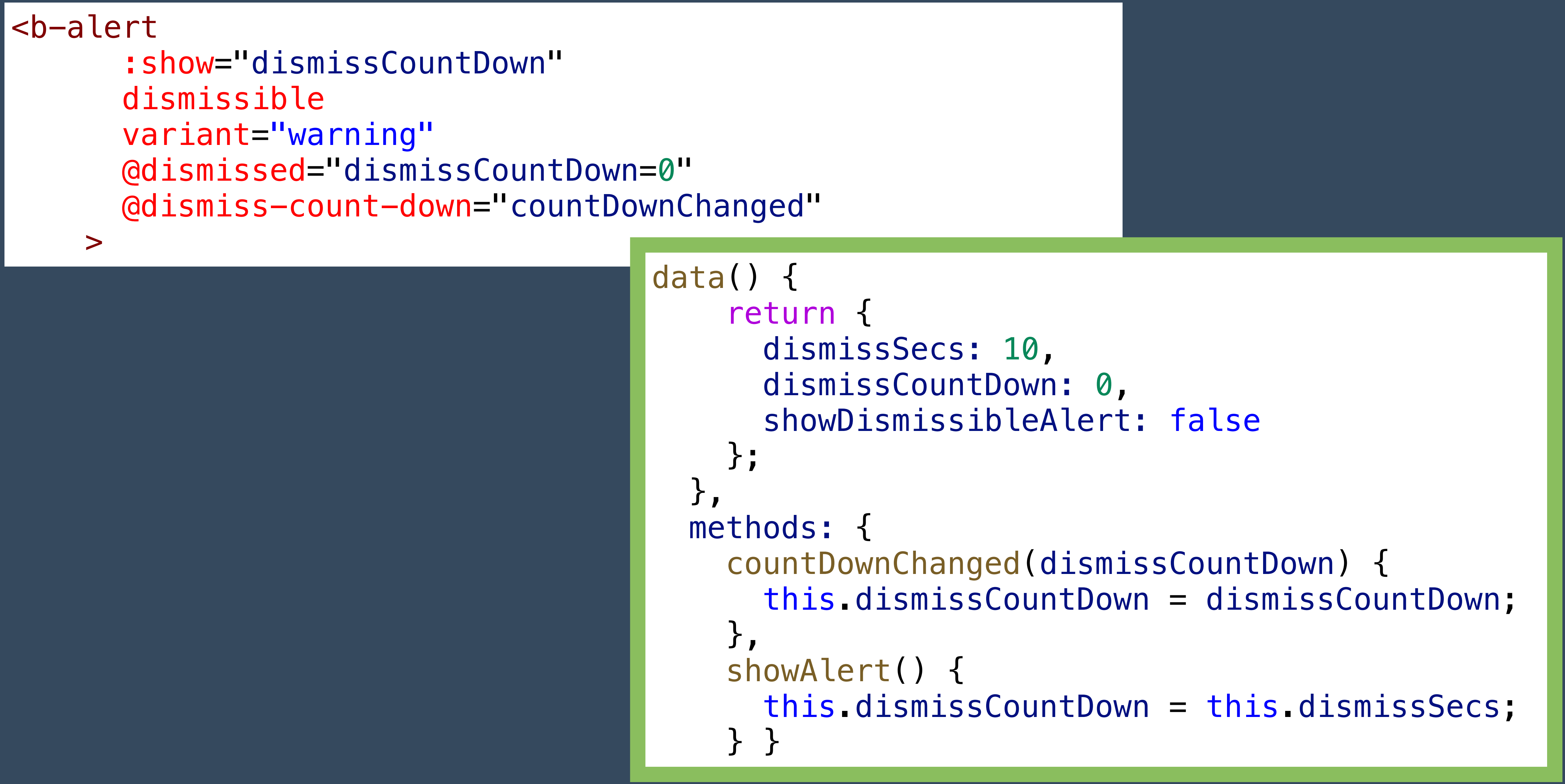
```
+import Vue from 'vue'
+
+import BootstrapVue from 'bootstrap-vue'
+import 'bootstrap/dist/css/bootstrap.min.css'
+import 'bootstrap-vue/dist/bootstrap-vue.css'
+
+Vue.use(BootstrapVue)
```

EXAMPLE : ADD COMPONENTS

- จากการ import Vue.use(BootstrapVue) และ css ที่เพิ่มใน main.js จะทำให้ระบบสามารถใช้ bootstrap ทุกส่วน (global method)
- ทดสอบเพิ่มการเรียกใช้ component ใน "HelloWorld.vue"

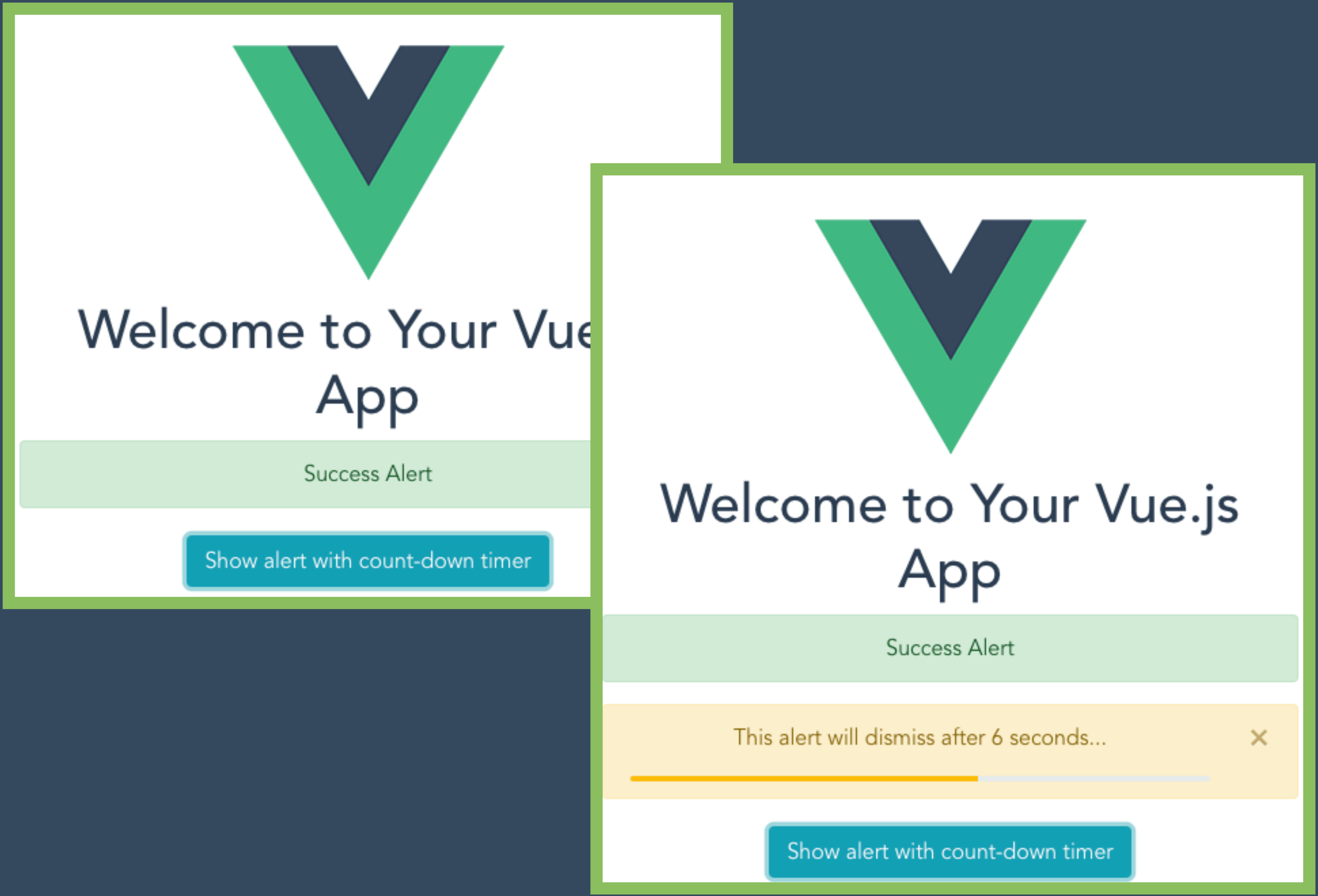


```
<b-alert variant="success" show>Success Alert</b-alert>
```



```
<b-alert
      :show="dismissCountDown"
      dismissible
      variant="warning"
      @dismissed="dismissCountDown=0"
      @dismiss-count-down="countDownChanged"
    >
```

```
data() {
    return {
      dismissSecs: 10,
      dismissCountDown: 0,
      showDismissibleAlert: false
    };
  },
  methods: {
    countDownChanged(dismissCountDown) {
      this.dismissCountDown = dismissCountDown;
    },
    showAlert() {
      this.dismissCountDown = this.dismissSecs;
    } }
```



Welcome to Your Vue

App

Success Alert

Show alert with count-down timer

Welcome to Your Vue.js App

Success Alert

This alert will dismiss after 6 seconds... ×

Show alert with count-down timer

TIME TO PRACTICE

- https://bootstrap-vue.js.org/docs/components/carousel
- https://bootstrap-vue.js.org/docs/components/collapse
- https://bootstrap-vue.js.org/docs/components/modal
- https://bootstrap-vue.js.org/docs/components/card
- #Card deck groups   ทดสอบอ่านข้อมูลจาก data() ***