

คพ494

หัวข้อพิเศษทางวิทยาการคอมพิวเตอร์ 1

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VUE.JS



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

**HTML**



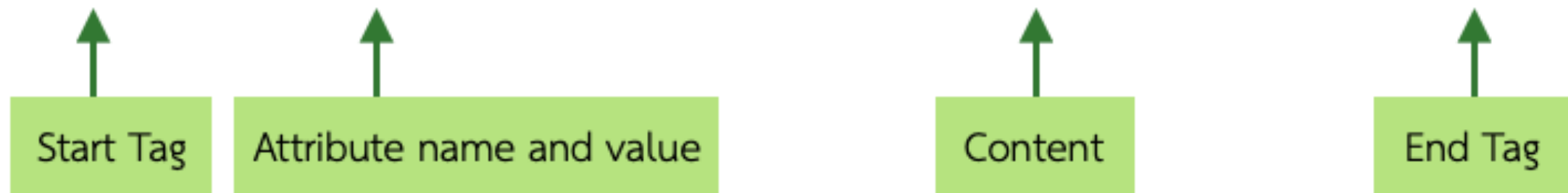
**JS**



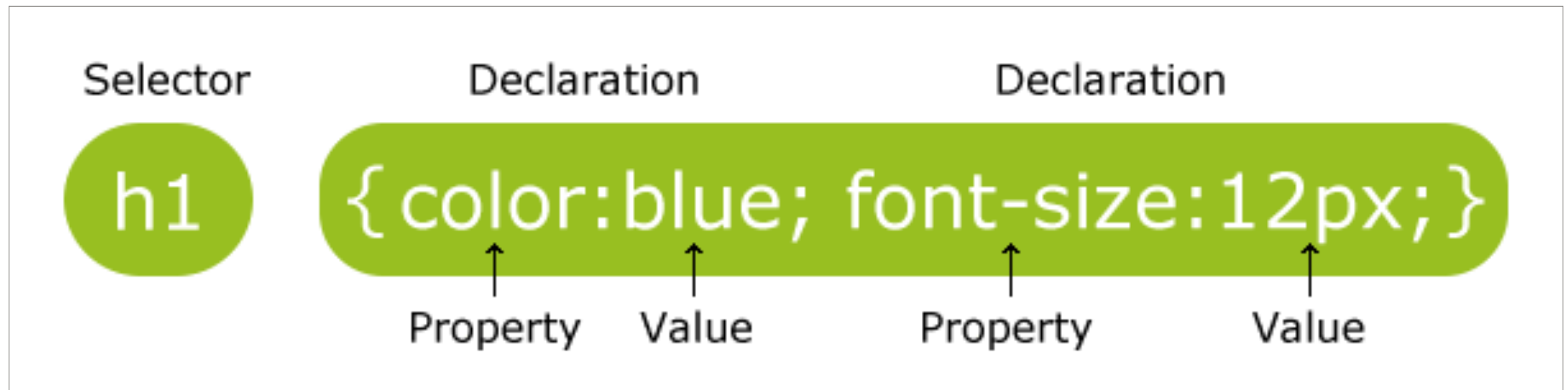
**CSS**



`<h1 class="topic">Internet Programming</h1>`



- ▶ Basic HTML : doctype, head, body, h1-h6, p, br, `<!-- -->`
- ▶ Formatting : address, b, blockquote, code, mark, ...
- ▶ Forms & Input : form, input, textarea, button, select, ...
- ▶ Frame, img, audio, video, a, nav, ul, ol, li, table, caption, th, td, tr, style, meta, ...



```
p { text-align : center ; color : red }
```

```
#para1 {  
  text-align: center;  
  color: red;  
}
```

```
<p id="para1">
```

```
.center {  
  text-align: center;  
  color: red;  
}
```

```
<h1 class="center">
```

# JAVASCRIPT

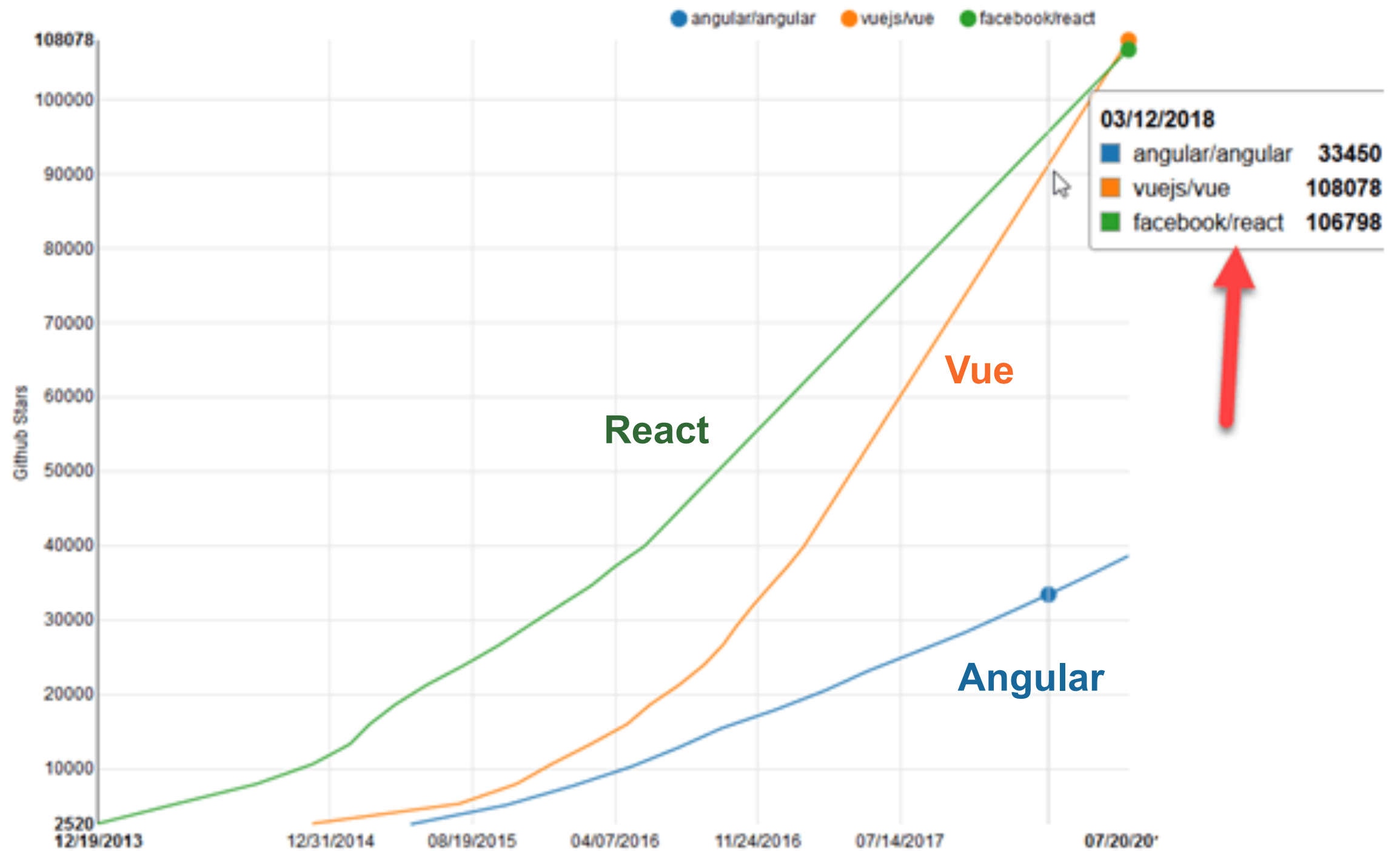
---

```
<script>
function myFunction() {
    var x = document.forms["frm1"];
    var text = "";
    var i;
    for (i = 0; i < x.length ;i++) {
        text += x.elements[i].value + "<br>";
    }
    document.getElementById("demo").innerHTML = text;
}
</script>
```

```
$( "#p1" ).mouseenter(function() {
    alert("You entered p1!");
});
```

```
$(document).ready(function() {
    $("p").click(function() {
        $(this).hide();
    });
});
```

# REACT VS ANGULAR VS VUE (GITHUB STARS)



# INTRODUCTION

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- ▶ **Vue** = Progressive JavaScript Framework - เน้น focus ที่ส่วน View Layer
- ▶ **Approachable** : เข้าถึงได้ง่าย - Read the guide and start building things in no time!
- ▶ **Versatile** : อเนกประสงค์ - An incrementally adoptable ecosystem that scales between a library and a full-featured framework.
- ▶ **Performant** : ประสิทธิภาพ - 20KB min+gzip Runtime, Blazing Fast Virtual DOM, Minimal Optimization Efforts
- ▶ **Maintainable**
- ▶ **Testable**



# ABOUT VUE



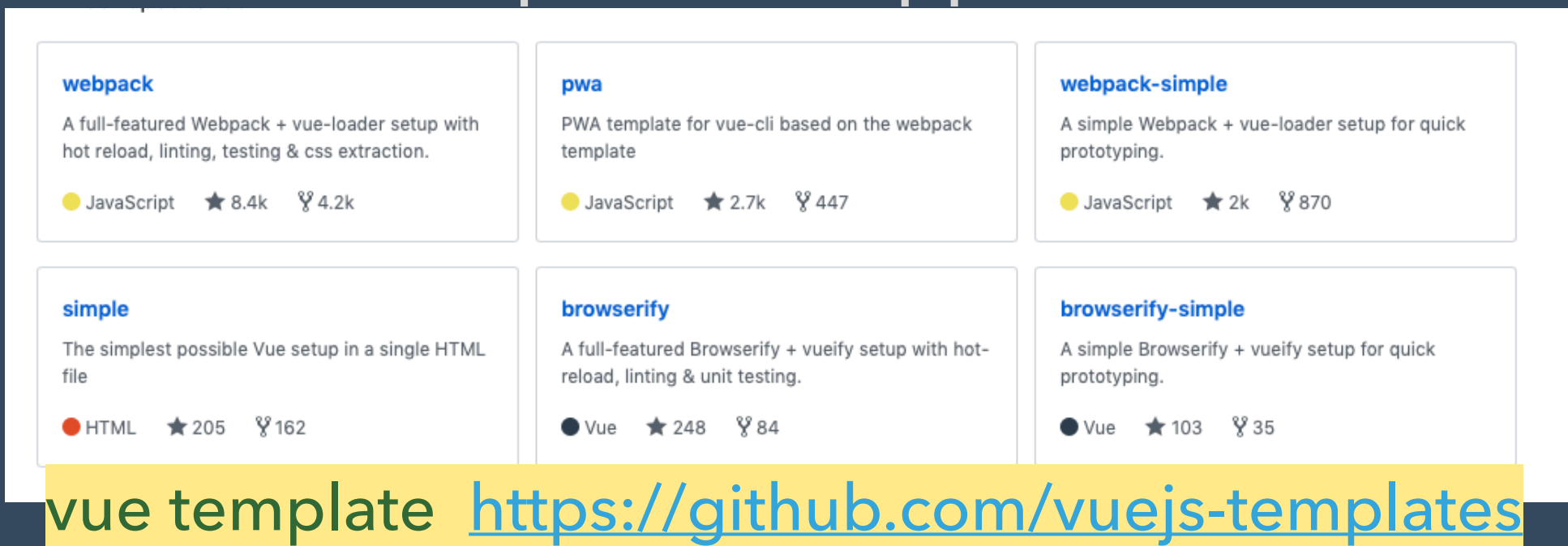
- ▶ **not** support IE8 and below
- ▶ Latest stable version: 2.5.17
- ▶ Supports server-side rendering (SSR) with streaming and component-level caching, making it possible to achieve blazing fast renders



Standard  
Library

# SETUP —> RUN

1. Install **Node.js** and **npm** command
  - ➔ <https://nodejs.org/en/>
2. Install Vue CLI globally
  - ➔ `$ npm install -g vue-cli`
3. Initiate a new project
  - ➔ `$ vue init <template-name> <project-name>`
  - ➔ `$ vue init webpack vueapp01`



The screenshot displays the output of the `vue init` command, showing a grid of project templates. Each template card includes its name, a brief description, and statistics for GitHub stars and forks.

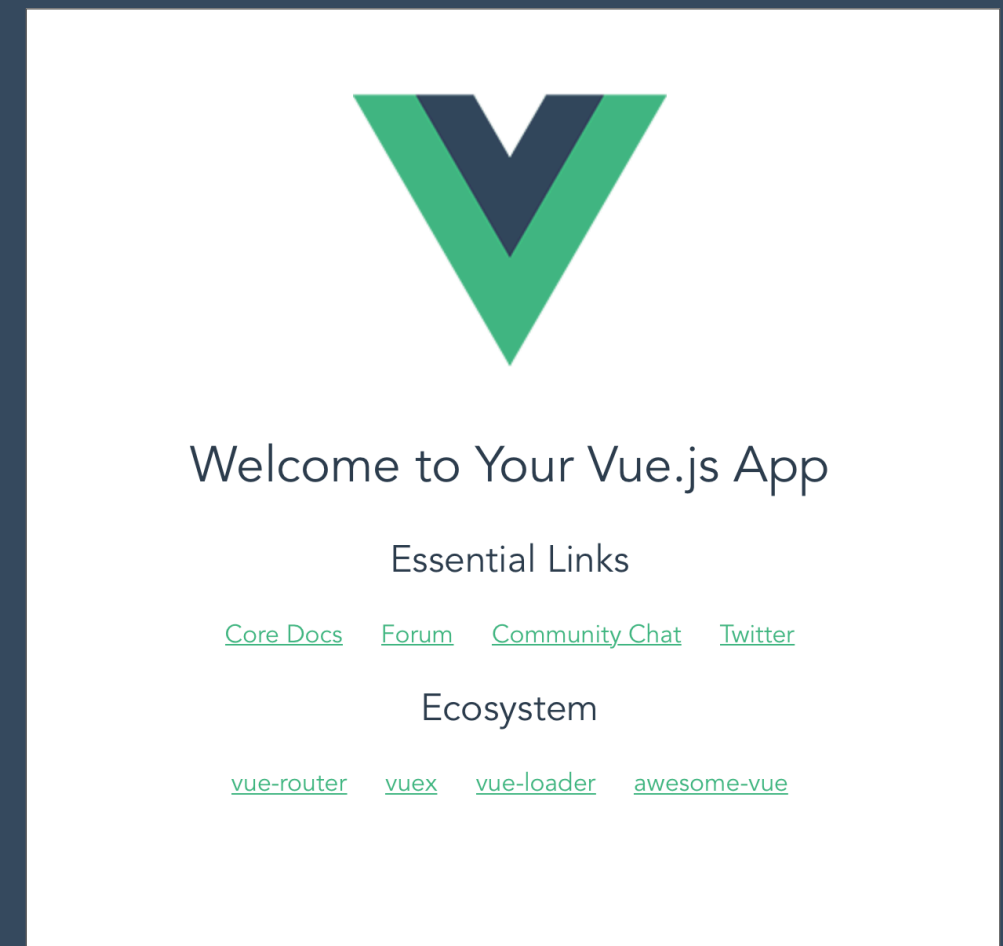
Template Name	Description	Stars	Forks
webpack	A full-featured Webpack + vue-loader setup with hot reload, linting, testing & css extraction.	8.4k	4.2k
pwa	PWA template for vue-cli based on the webpack template	2.7k	447
webpack-simple	A simple Webpack + vue-loader setup for quick prototyping.	2k	870
simple	The simplest possible Vue setup in a single HTML file	205	162
browserify	A full-featured Browserify + vueify setup with hot-reload, linting & unit testing.	248	84
browserify-simple	A simple Browserify + vueify setup for quick prototyping.	103	35

vue template <https://github.com/vuejs-templates>

# SETUP —> RUN

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4. change into the project-directory
    - ➔ `$ cd vueapp01`
  5. Install additional dependencies
    - ➔ `$ npm install`
  6. Launch the web server in development mode
    - ➔ `$ npm run dev`
    - ➔ `http://localhost:8080`
- ★ Build for production
- ➔ `$ npm run build`



# INCLUDE VUE IN PROJECTS

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1. Use CDN - Include the `<script>` tag in the HTML File.
  - ➔ <https://vuejs.org/js/vue.js> (Development Version)
  - ➔ <https://vuejs.org/js/vue.min.js> (Production Version)
  - ➔ <https://cdn.jsdelivr.net/npm/vue@2.5.17/dist/vue.js> (CDN : specific version number )
  - ➔ <https://unpkg.com/vue@2.5.17/dist/vue.js>
2. Use the NPM to install
  - ➔ `$ npm install vue`
3. Use Bower to install
  - ➔ `$ bower install vue`
4. Set up your project with Vue-cli
  - ➔ `$ vue create hello-world`
  - ➔ `$ vue ui`

[Beta] Create a new project - V x

localhost:8000/project/create

## Create a new project

Details

Presets

Features

Configuration

Project folder

Type a name

/Volumes/Data/Vue/

Package manager

Default

Additional options

Overwrite target folder if it exists

Git repository

Initialize git repository (recommended)

Initial commit message (optional)

Cancel

Next →

## Chrome Extension



Vue.js devtools

Chrome and Firefox DevTools extension for debugging Vue.js applications.

Details

Remove



Project tasks

serve

Running

build

Done

lint

Lints and fixes files

inspect

Inspect the resolved webpa...

serve

Compiles and hot-reloads for development

vue-cli-service serve

Stop task

Parameters

Output

Dashboard

Analyzer

Running

Output

App running at:  
- Local: <http://localhost:8080/>  
- Network: <http://172.17.35.63:8080/>  
  
Note that the development build is not optimized.  
To create a production build, run `npm run build`.

Logs

Get started with the following commands:

\$ cd hello2

\$ npm run serve

INFO

Task /Volumes/Data/Vue/hello2:build started

11/27/2018, 11:20:53 AM

DONE

Task /Volumes/Data/Vue/hello2:build completed

11/27/2018, 11:21:47 AM

INFO

Task /Volumes/Data/Vue/hello2:serve started

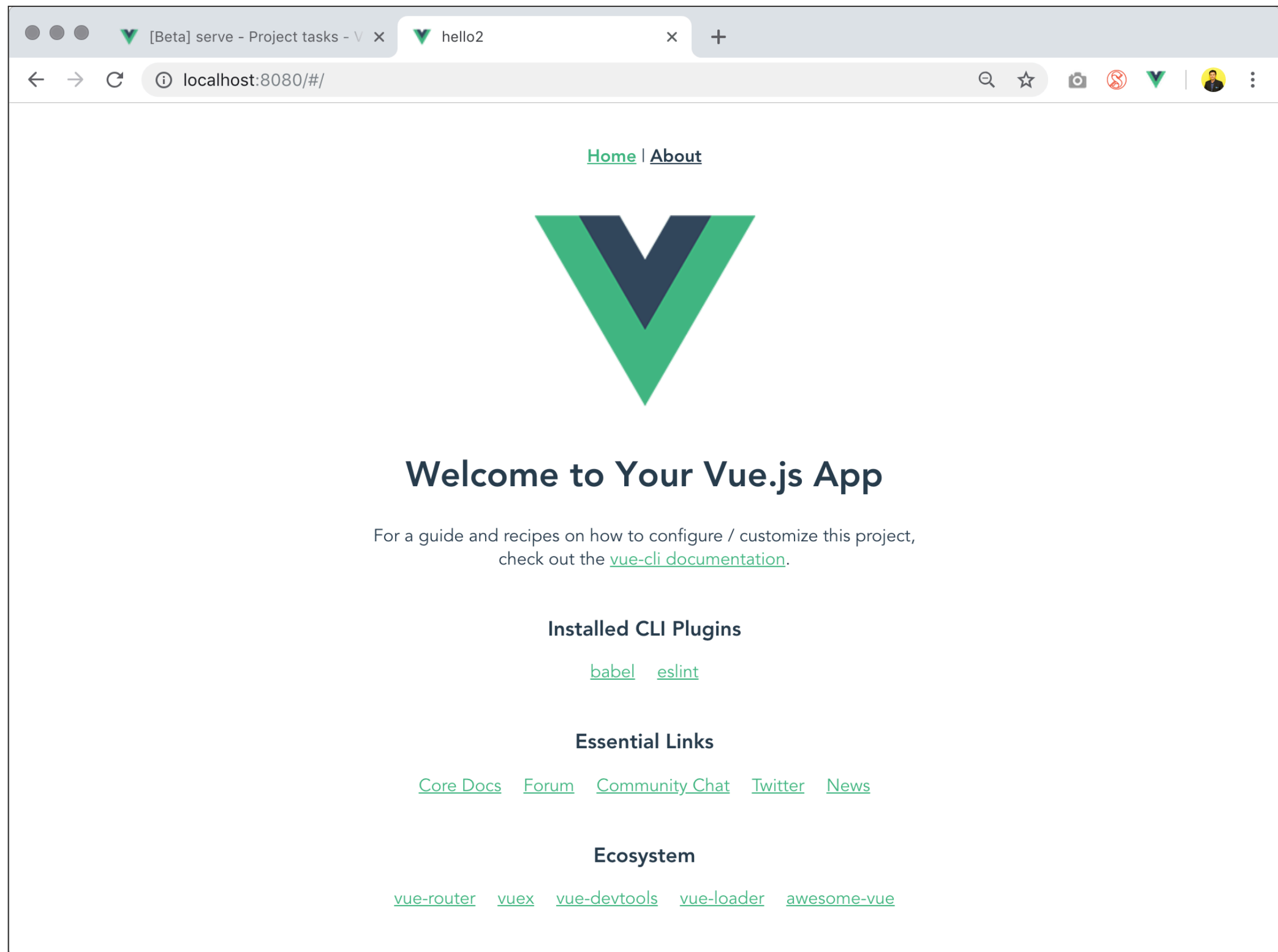
11/27/2018, 11:29:14 AM

/Volumes/Data/Vue/hello2

INFO

Task /Volumes/Data/Vue/hello2:serve started

11/27/2018, 11:29:14 AM



ConfigGlobal

silent

optionMergeStrategies

devtools

errorHandler

ignoredElements

keyCodes

performance2.2

productionTip2.2

APIGlobal

Vue.extend

Vue.nextTick

Vue.set

Vue.delete

Vue.directive

Vue.filter

Vue.component

Vue.use

Vue.mixin

Vue.compile

Vue.version

Lifecycle HooksOptions

beforeCreate

created

beforeMount

mounted

beforeUpdate

updated

activated

deactivated

beforeDestroy

destroyed

DataOptions

data

props

propsData

computed

methods

watch

DOMOptions

el

template

render

renderError2.2

AssetsOptions

directives

filters

components

CompositionOptions

parent

mixins

extends

provide / inject2.2

MiscOptions

name

delimiters

functional

model2.2

DataMethods

vm.\$watch

vm.\$set

vm.\$delete

EventsMethods

vm.\$on

vm.\$once

vm.\$off

vm.\$emit

LifecycleMethods

vm.\$mount

vm.\$forceUpdate

vm.\$nextTick

vm.\$destroy

PropertiesInstance

vm.\$data

vm.\$props2.2

vm.\$el

vm.\$options

vm.\$parent

vm.\$root

vm.\$children

vm.\$slots

vm.\$scopedSlots2.1

vm.\$refs

vm.\$isServer

Directiveshtml

v-text

v-html

v-show

v-if

v-else

v-else-if2.1

v-for

v-on

v-bind

v-model

v-pre

v-cloak

v-once

DirectivesHooks

bind

inserted

update

componentUpdated

unbind

Attributeshtml

key

ref

slot

ComponentsBuilt-In

component

transition

transition-group

keep-alive

slot

v-modelModifiers

v-model.lazy

v-model.number

v-model.trim

EventModifiers

v-on:click.native

v-on:click.stop

v-on:click.prevent

v-on:click.passive2.3

v-on:click.capture

v-on:click.self

v-on:click.once2.1.4

v-bindModifiers

v-bind.prop

v-bind.camel2.1

v-bind.sync2.3

MouseModifiers

v-on:click.left2.2

v-on:click.right2.2

v-on:click.middle2.2

KeyboardModifiers

v-on:keyup.ctrl2.1

v-on:keyup.alt2.1

v-on:keyup.shift2.1

v-on:keyup.meta2.1

v-on:keyup.enter

v-on:keyup.tab

v-on:keyup.delete

v-on:keyup.esc

v-on:keyup.up

v-on:keyup.down

v-on:keyup.left

v-on:keyup.right

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



# VUE RESOURCE

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- ▶ <https://vuejs.org>
- ▶ <https://www.youtube.com/watch...>
- ▶ <https://github.com/vuejs/awesome-vue>



Standard  
Library