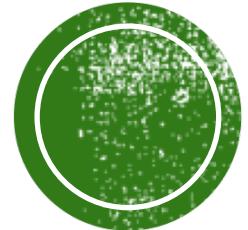


BUILDING SSR CAPABLE APPS WITH NUXT.JS

VueBLR #5 - What's up with SSR?



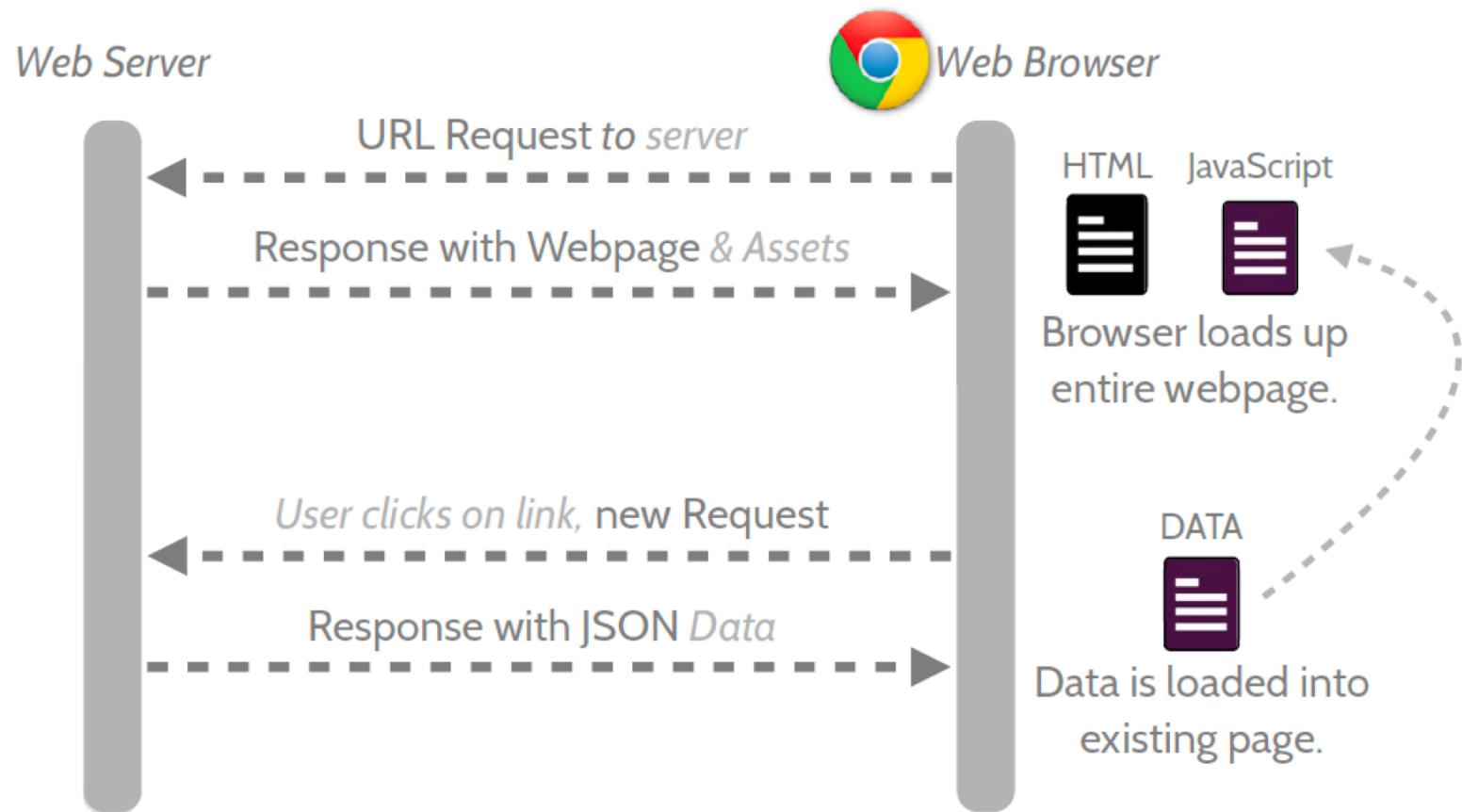
Pooya Parsa
twitter.com/_pi0_



A JOURNEY TO SSR



HOW A TRADITIONAL WEB APP WORKS?



TRADITIONAL WEB APPS

- **Pros**

- Simpler Implementation
- SEO friendly by default
- Rich ecosystem of frameworks
- They are everywhere!

- **Cons**

- No offline support
- Page changes needs a full reload
- **Ajax for more dynamic content**
- Leads to duplicate logic
- Not really **app like** feeling
- Manually manipulation of DOM which was created using server response
- Using differing technologies/layers for same functionality



CLIENT SIDE RENDERING

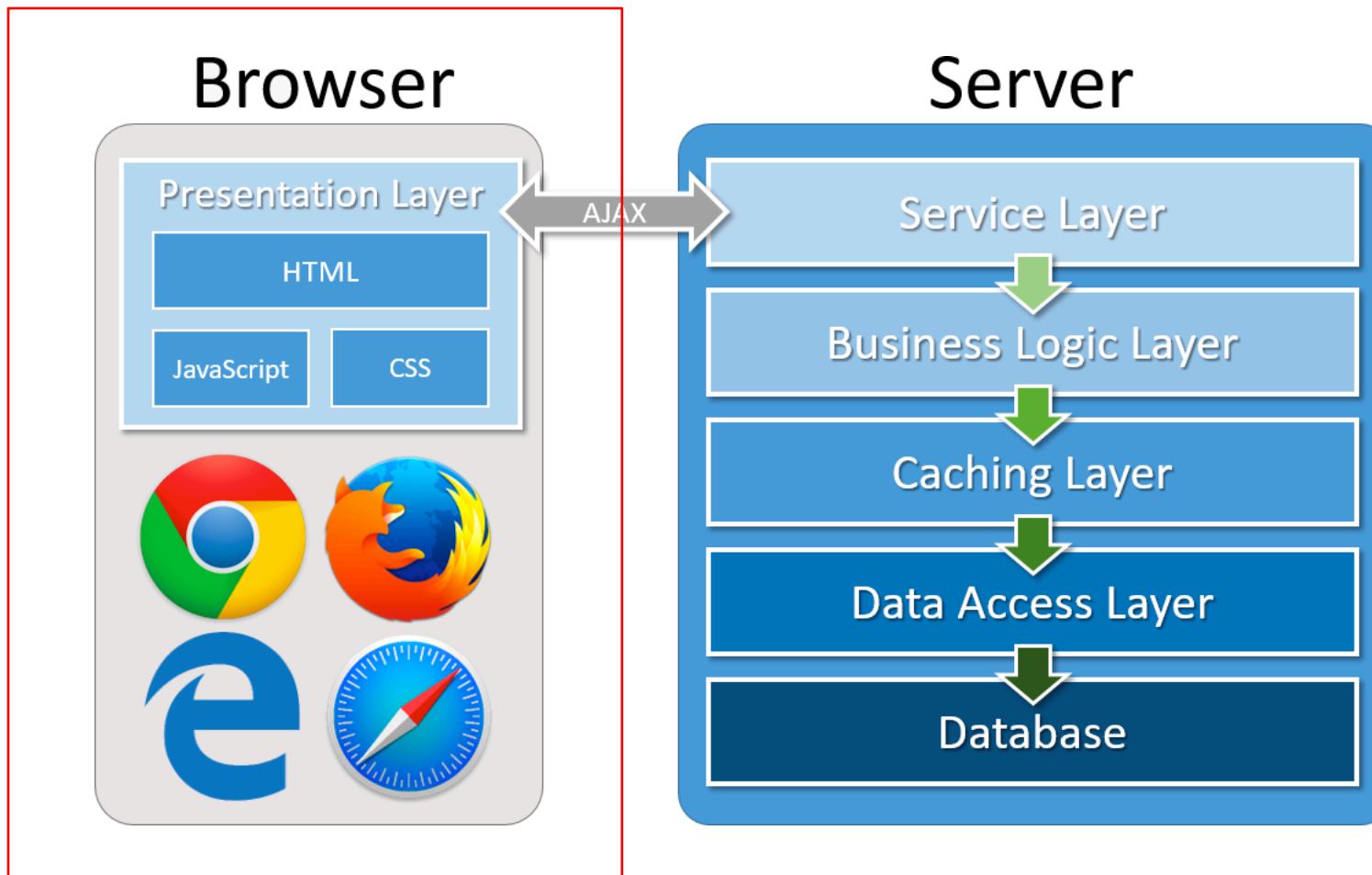
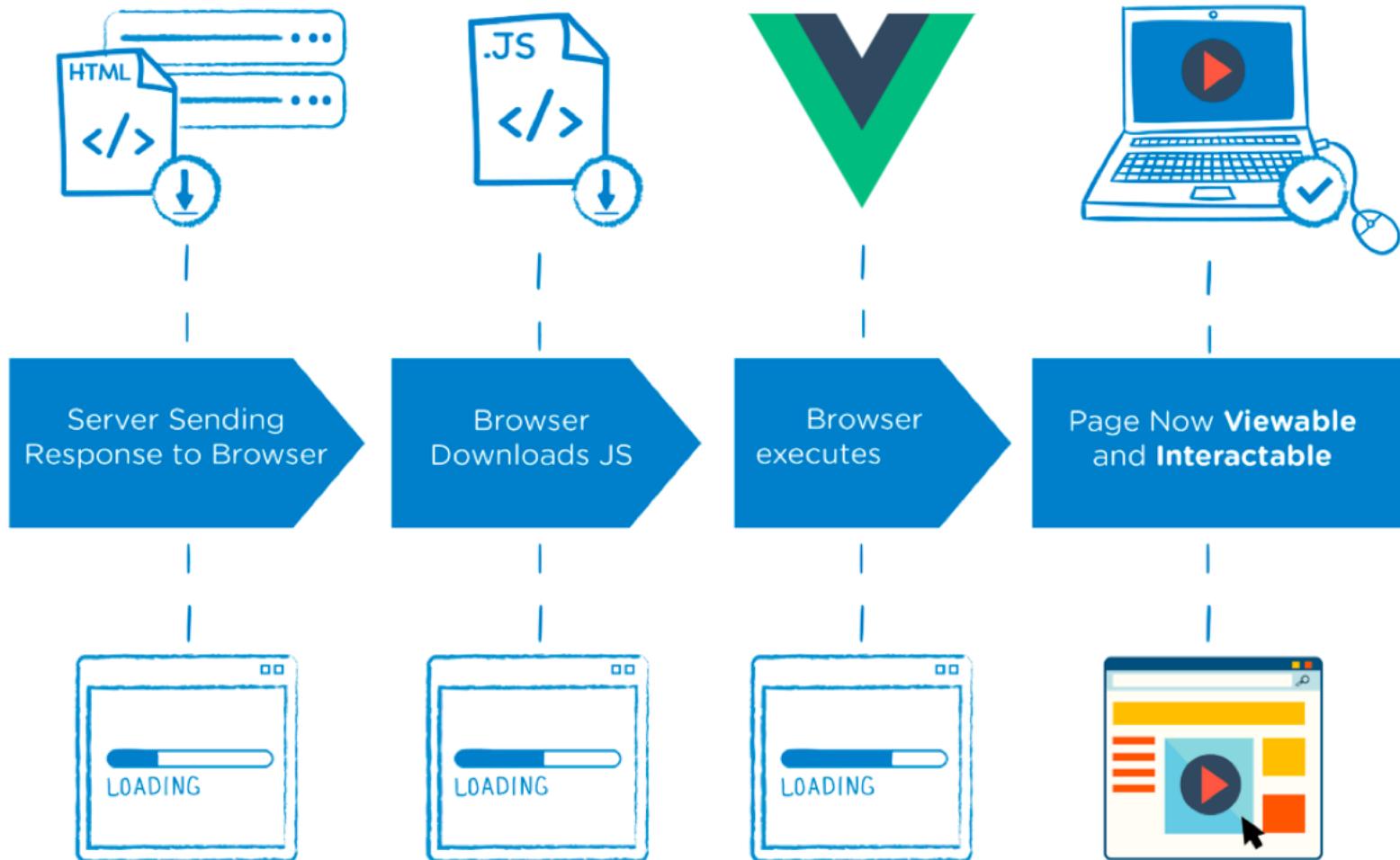


Image source: dnsoftware.com



CSR



CSR/SPA WEB APPS

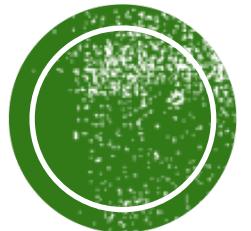
- **Pros**

- Offline by default!
- No more server dependent
- Pure API-Oriented

- **Cons**

- Clients need JS
- Not so SEO friendly
- Slow initial load time

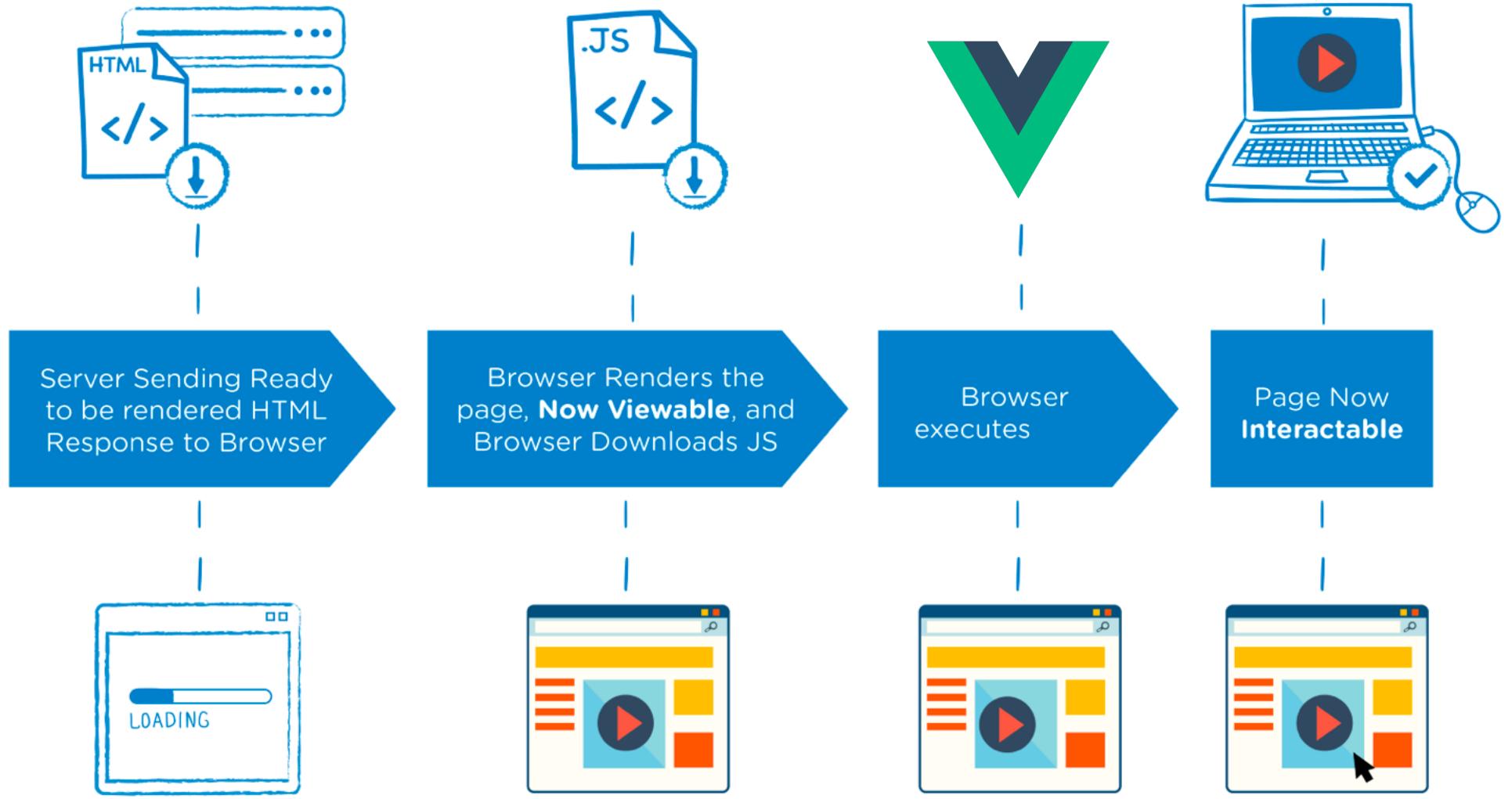




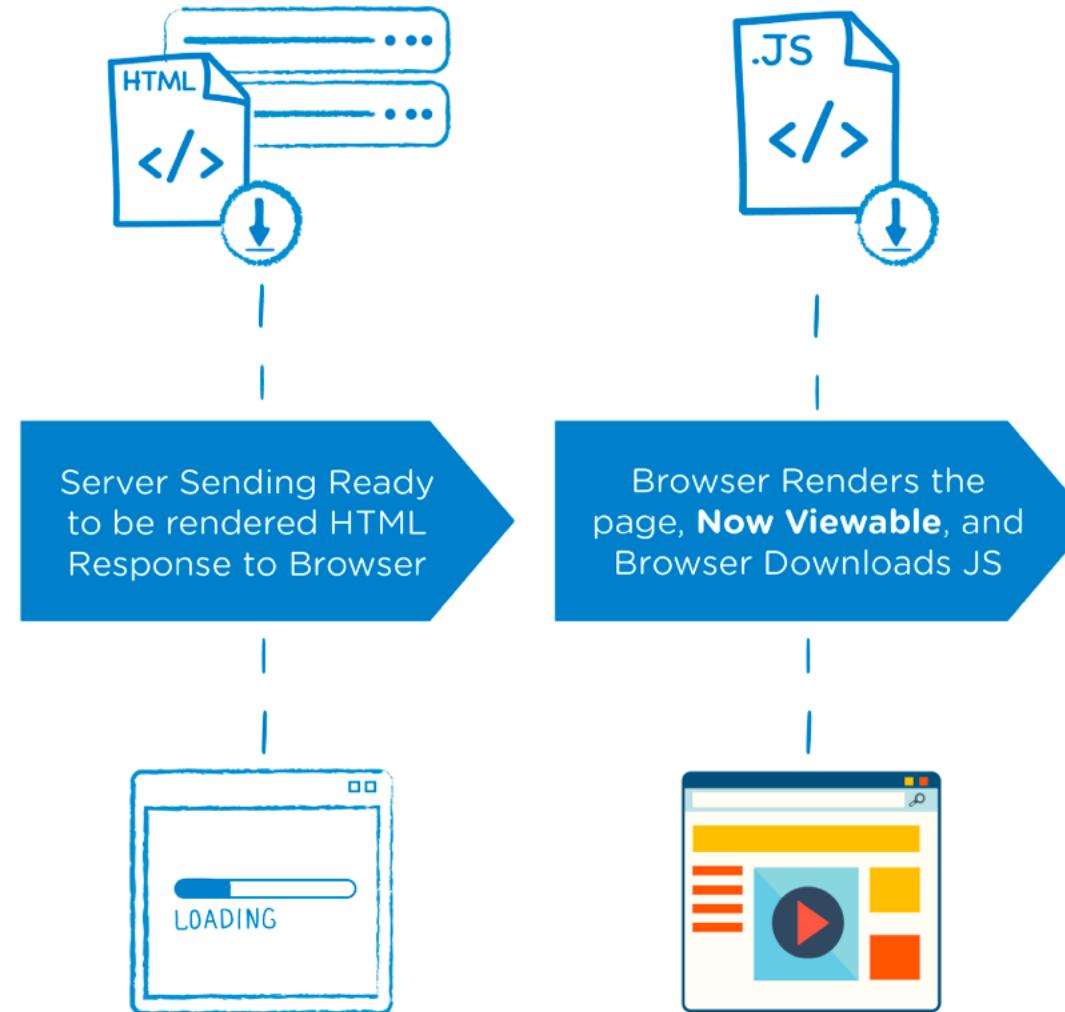
SSR WEB APPS



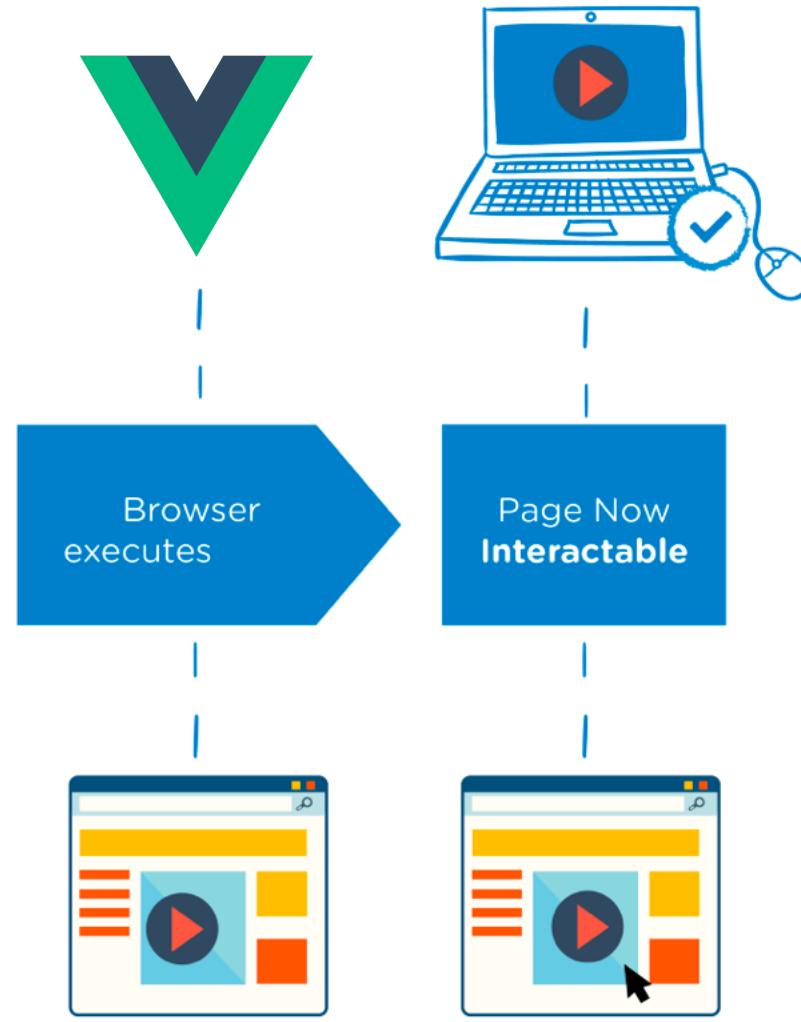
SSR



FAST INITIAL LOAD



INTRACTABLE PAGES





NUXT

Universal Vue.js Applications





Nuxt.js presets all the configuration
needed to make your development of a
Vue.js Application Server Rendered
more enjoyable.



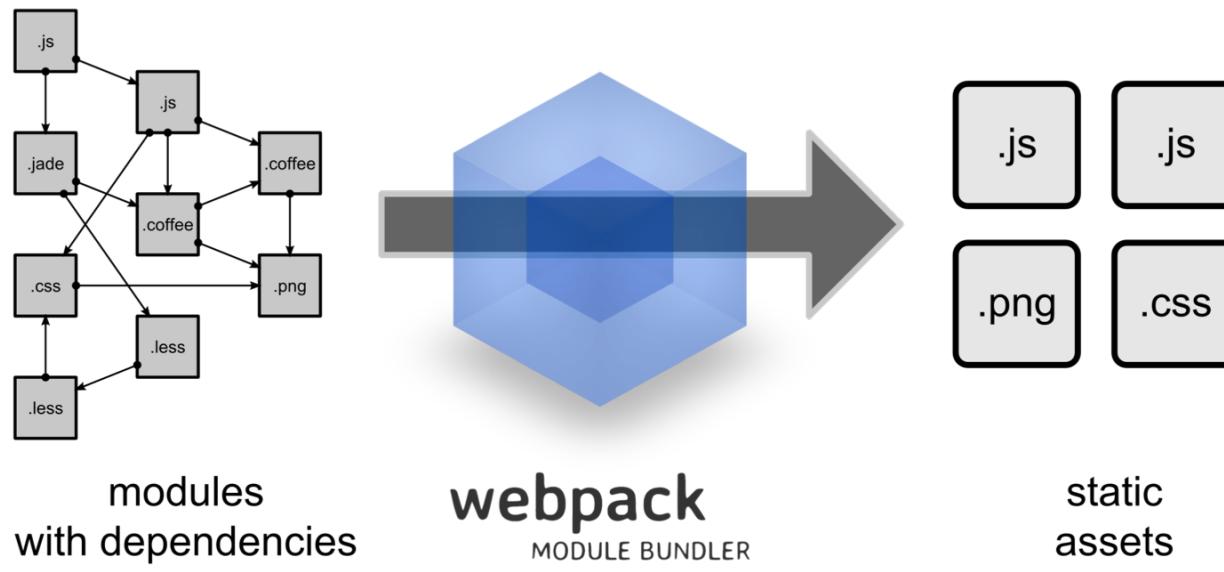
ZERO CONFIGURATION NEEDED

- Install Nuxt with npm and Create **pages/index.vue** and it works!
- You can then extend any aspect of Nuxt using **nuxt.config.js** and **modules system**



BUILD PROCESS

- Provides webpack config for both SSR and SPA bundles
- ES6/ES7 Transpilation
- Easier development with HMR



PERFORMANT OUT OF THE BOX!

- Automatic Code Splitting
- Server-Side Rendering
- Bundling and minifying of your JS & CSS
- HTTP/2 push headers ready
- Chunk hashing
- Manifest extraction



RUNTIME

- Production and development web server with webpack-dev-middleware
- Static assets serving
- Pluggable connect/express middleware



STATIC GENERATED WEBSITES

- SSR Benefits without high server loads
- Statically host anywhere



BUT WAIT... SSR IS SO HARD AND COSTLY!

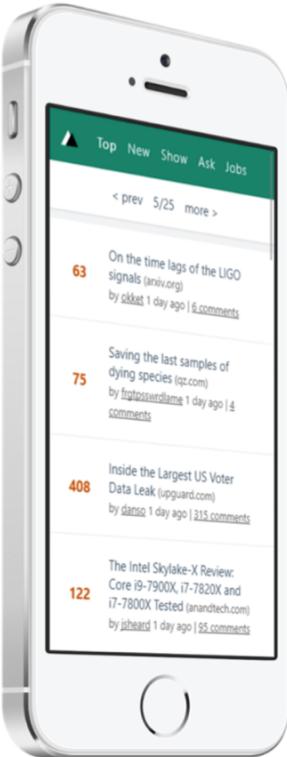
- Client Side Hydration
- Ajax requests in Server Side
- High Server Loads
- Window is undefined!
- Shared Context



EASY SWITCH BETWEEN SPA/UNIVERSAL

Nuxt.js Hacker News

HackerNews clone built with Nuxt.js.



[Live Demo](#)





MODULES ECOSYSTEM

- Modules are great if you:
 - Are a member of an **agile team** that needs to quickly bootstrap new projects.
 - Are tired of **re-inventing** the wheel for common tasks like integrating Google Analytics.
 - Are a lovely **Open Source** enthusiast who would like to easily **share** your work with the community.
 - Are a member of an **enterprise** company that values **quality** and **reusability**.
 - Are often up against short deadlines and don't have time to dig into the details of every new library or integration.
 - Are tired of dealing with breaking changes to low-level interfaces, and need things that **just work™**.





PWA MODULE

- Using Nuxt PWA you can supercharge your current or next Nuxt project with a heavily tested, updated and stable PWA solution and zero-config!

Packages

Package	Downloads	Latest	Changelog
@nuxtjs/pwa	downloads 16k	npm@latest v2.0.4	Changelog
@nuxtjs/manifest	downloads 19k	npm@latest v2.1.0	Changelog
@nuxtjs/meta	downloads 17k	npm@latest v2.0.1	Changelog
@nuxtjs/workbox	downloads 19k	npm@latest v2.1.1	Changelog
@nuxtjs/icon	downloads 17k	npm@latest v2.0.1	Changelog
@nuxtjs/onesignal	downloads 87	npm@latest v2.0.0	Changelog



SOME USEFUL MODULES FOR PWA

- Axios Module
- Proxy Module
- Auth Module



NEXT STEPS

- **✓ Native Async/Awaits with Node 8.0.0**
- Stable Nuxt 1.0.0 (Currently: nuxt@next)
- Blazing fast SSR with multi threaded rendering
- Faster and incremental generate
- Webpack 4



THANKS FOR YOUR ATTENTION!

