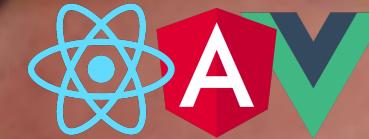


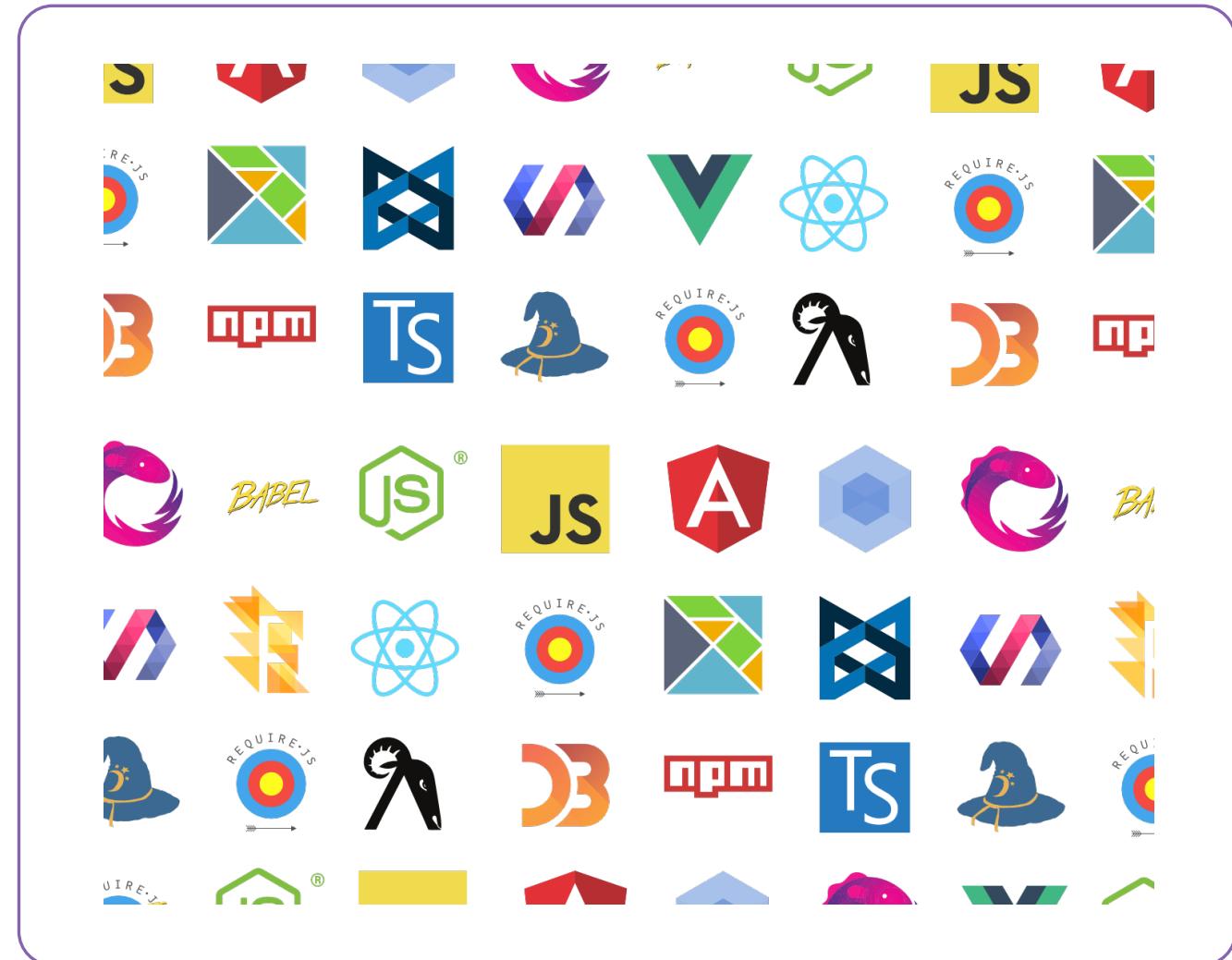
Introduction to Frontend Frameworks

By Matthew Honour



What is a Frontend Framework?

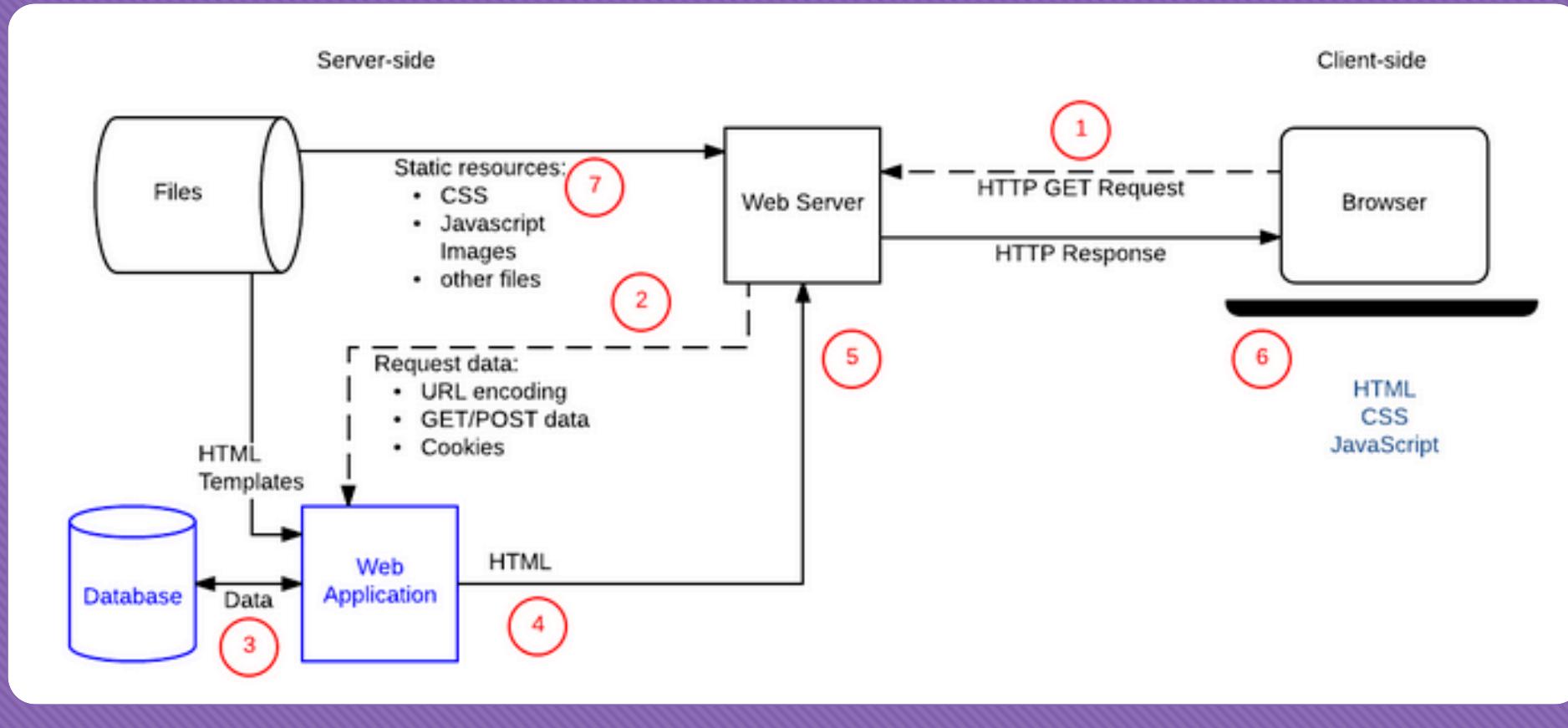
- A frontend framework is just some code written by some smart developers to make developing web applications easier.
- Provides us with additional functionality such as re-rendering certain areas of the DOM, declarative data binding, routing, app state and components.
- Suggest a way of structuring your frontend code (JS, HTML, CSS).



A Brief History

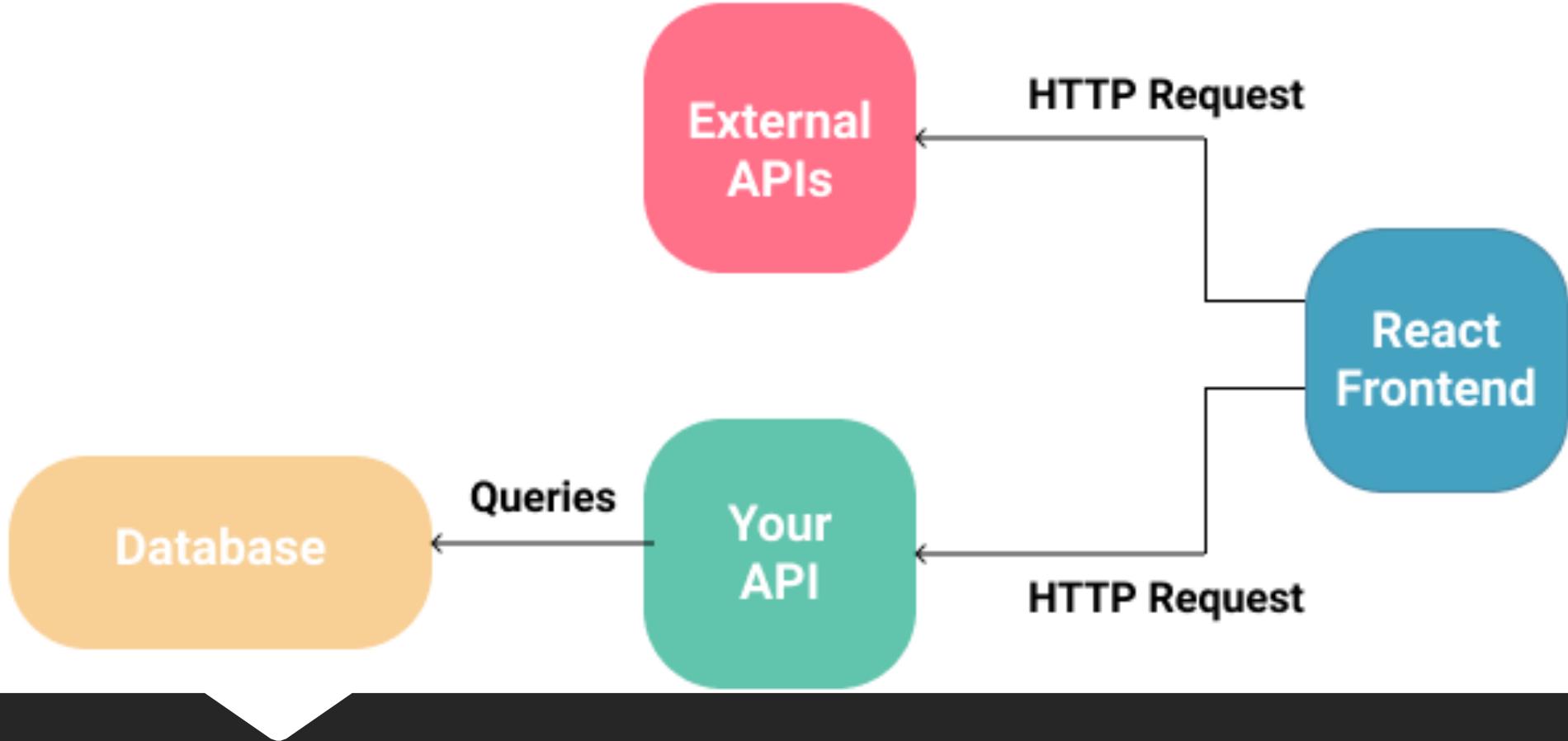
- **1990–1995** : HTML, CSS and JavaScript are invented
- **1996–1999** : Standardization efforts begin. Browser compliance is terrible. Browser wars ignite.
- **2000–2004** : CSS frameworks begin to emerge. jQuery is born. Frontend package management.
- **2005–2009** : W3C specification compliance is met. Chrome browser takes the lead. Responsive designs and frameworks are introduced.
- **2010–2015**: JavaScript Frameworks are born i.e. Backbone, Ember, AngularJS, React, Angular, Vue. HTML5 is announced.
- **2016–2018**: GraphQL emerges. Native HTML, CSS & JavaScript become more powerful. New platforms built on-top existing JavaScript frameworks emerge: StoryBook, Motion UI, Gatsby, Next.js.

<https://blog.logrocket.com/history-of-frontend-frameworks/>



How do traditional web apps work?

https://developer.mozilla.org/en-US/docs/Learn/Server-side/First_steps/Introduction



Example Architecture with a Framework

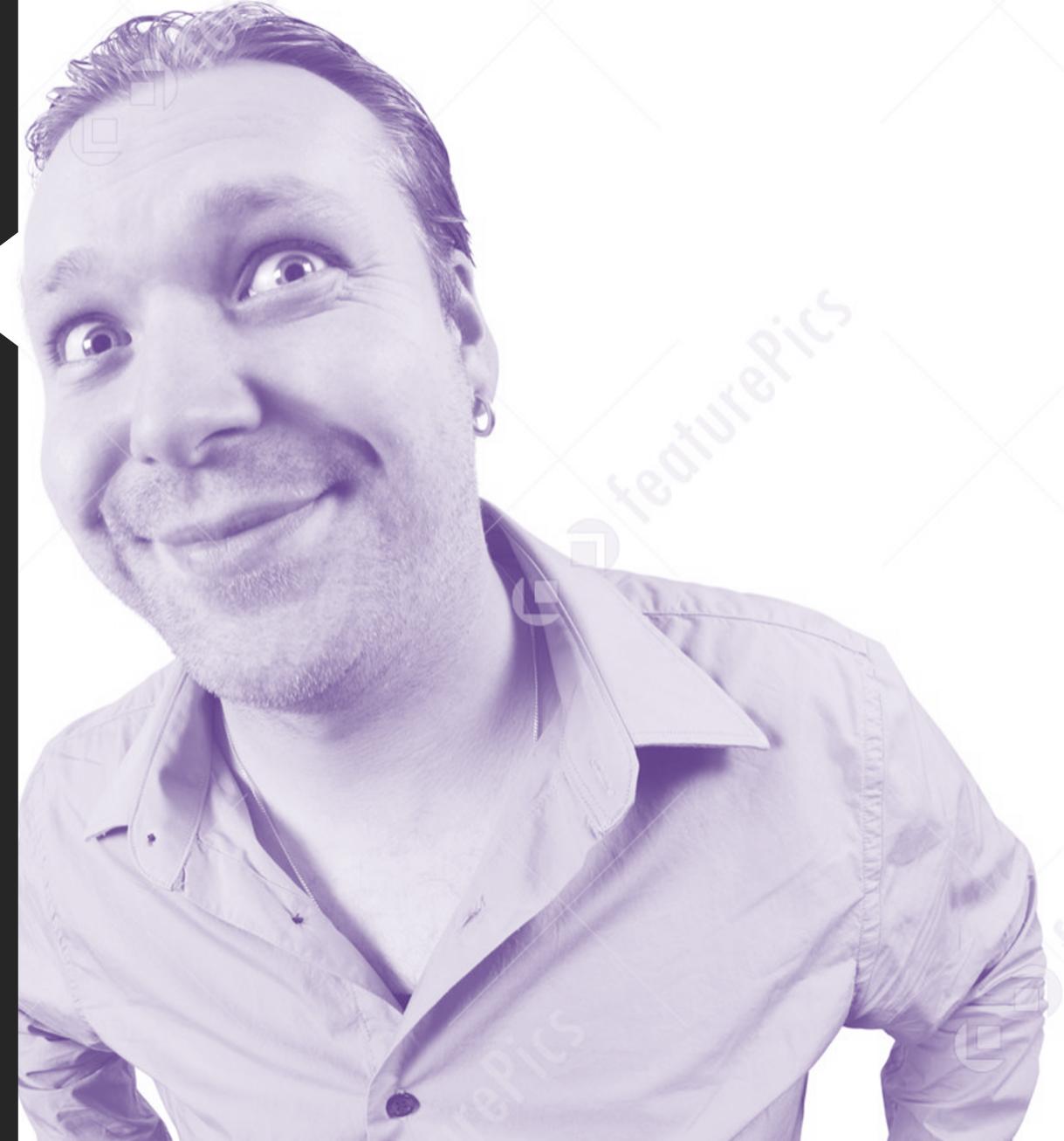
Demo

TIME FOR A LIVE DEMO



When should you use one?

- They are very good at making Single Page Applications (SPAs).
- You can also use them for Multi Page Applications with help from frameworks built on top of them (e.g. Next or Nuxt).



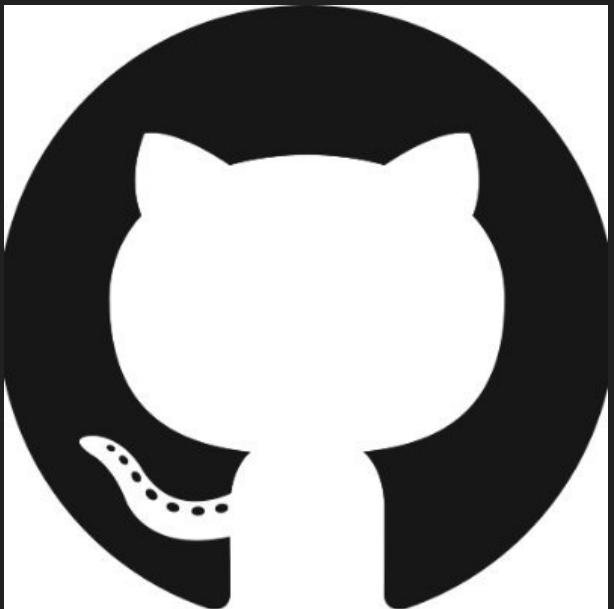
When you should not use one?

- In my opinion I cannot see a time where I would not use one to make a web app.



Conclusion

- There are tons of ways to make anything on the web.
- You do not necessarily need to use frontend frameworks to make your dream web app.
- However they are very popular within the web development community for a reason, so I would recommend you giving them a try.



Personal Info

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References

- <https://blog.logrocket.com/history-of-frontend-frameworks/> (History of Frontend Frameworks)
- https://www.youtube.com/watch?v=XxVg_s8xAms (Introduction to React)
- <https://medium.com/@wilbo/server-side-vs-client-side-routing-71d710e9227f> (Client Side Vs Server Side Routing)
- <https://www.webstandards.org/> (Web Standards Project)
- https://developer.mozilla.org/en-US/docs/Learn/Server-side/First_steps/Introduction (web server fundamentals)