

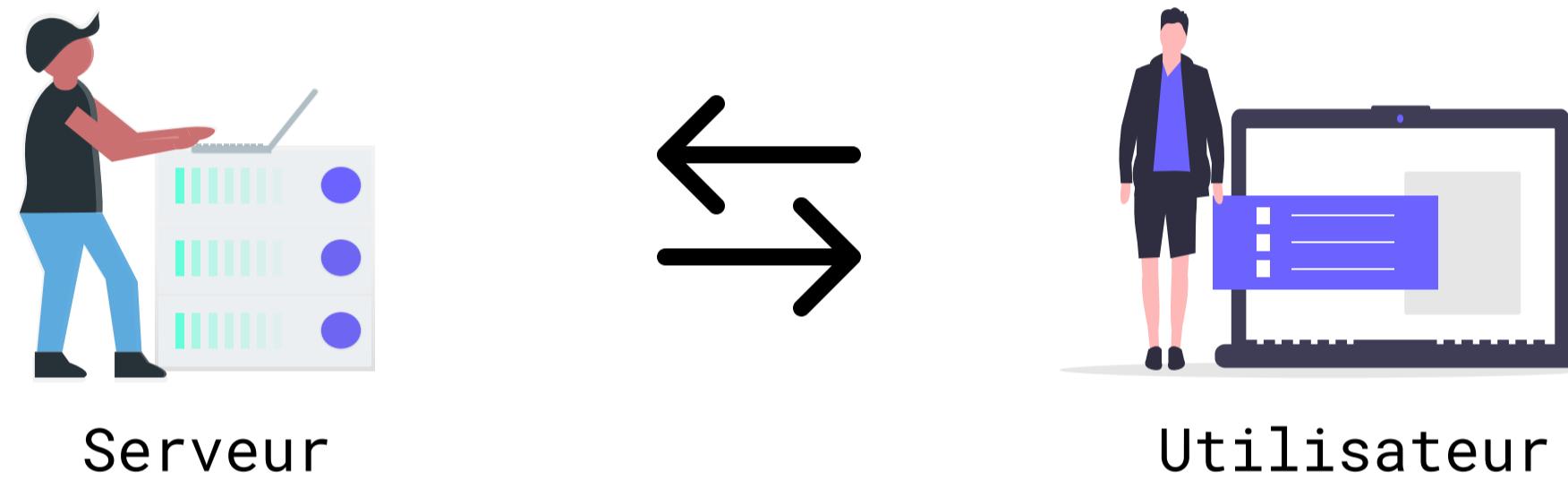
# Javascript

## Frameworks & Bibliothèques

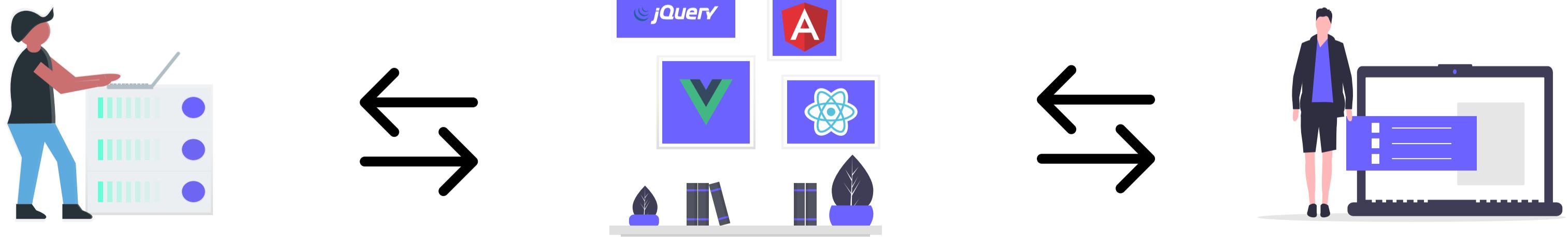
```
351  
352 /* =Menu  
353 -----  
354  
355 #access {  
356   display: inline-block;  
357   height: 69px;  
358   float: right;  
359   margin: 11px 28px 0px 0px;  
360   max-width: 800px;  
361 }  
362  
363 #access ul {  
364   font-size: 13px;  
365   list-style: none;  
366   margin: 0 0 0 -0.8125em;  
367   padding-left: 0;  
368   z-index: 99999;  
369   text-align: right;  
370 }  
371  
372 #access li {  
373   display: inline-block;  
374   text-align: left;  
375 }  
376  
377 .menu li {  
378   display: inline-block;  
379   text-align: right;  
380 }
```

# Pourquoi des Frameworks Javascript ?

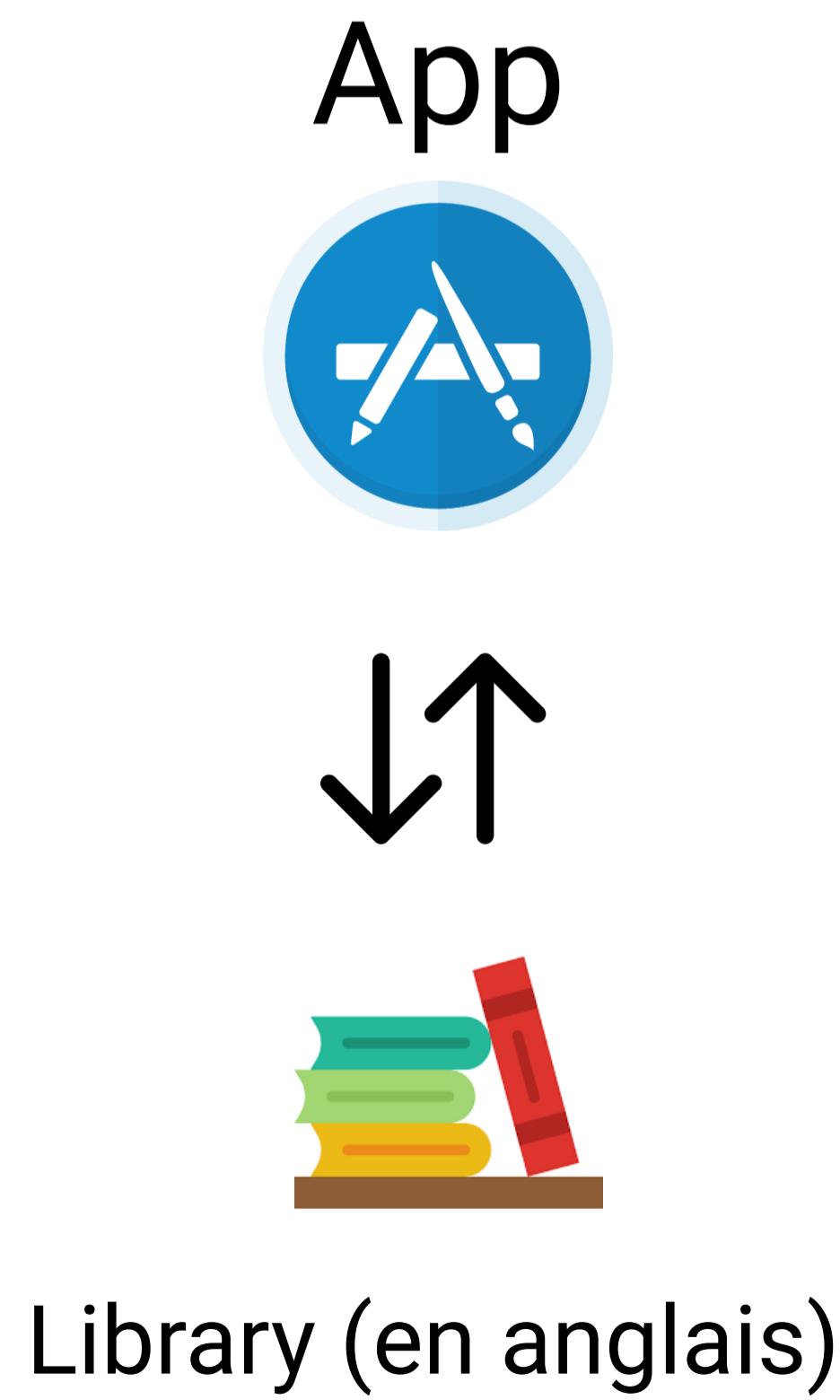
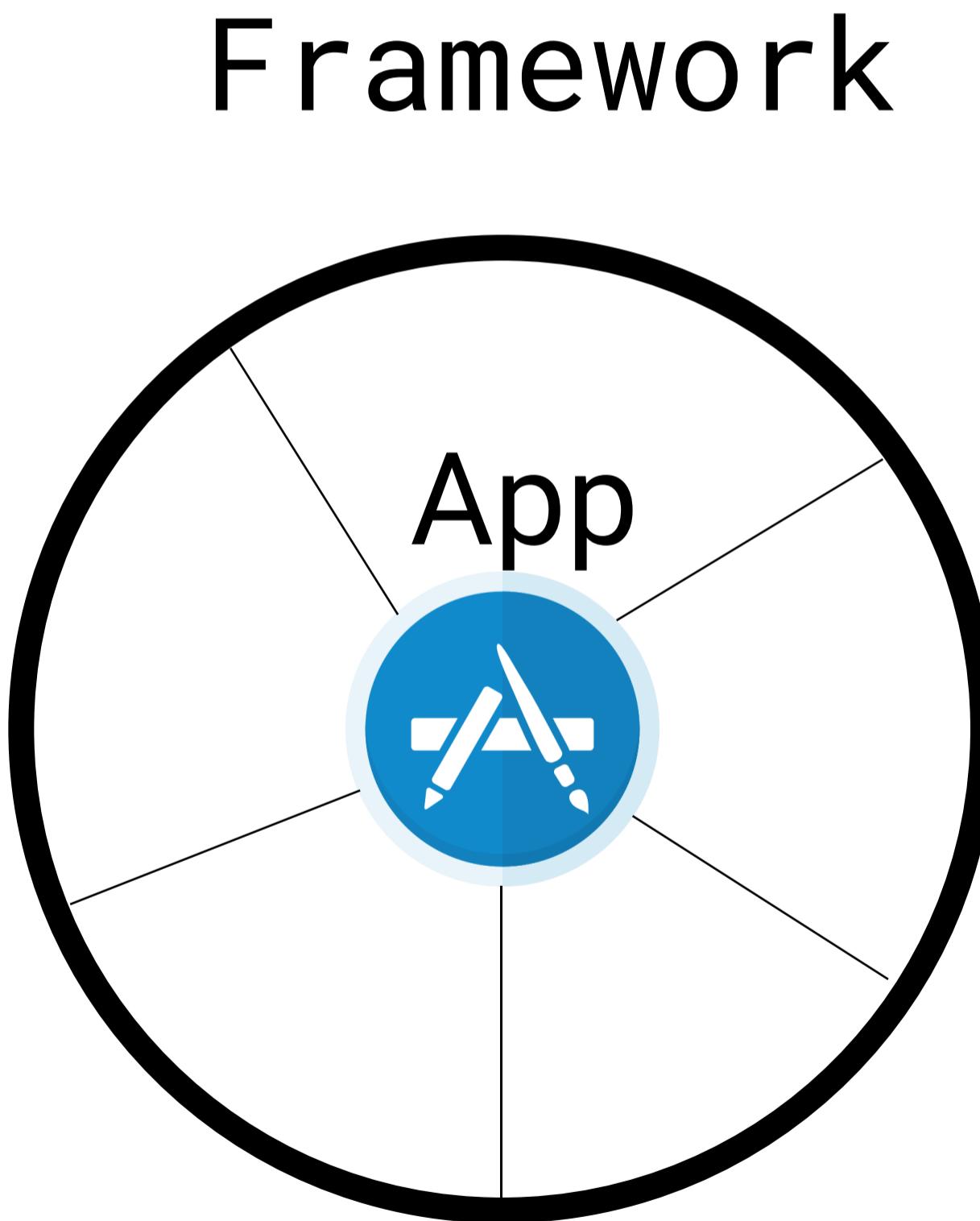
Site dynamique de base



Avec Frameworks/bibliothèques JS



# Framework $\neq$ Bibliothèque

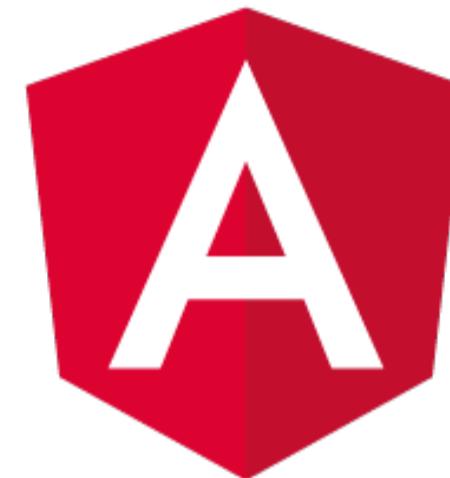


# Historique Frameworks et bibliothèques



2006

*jQuery*



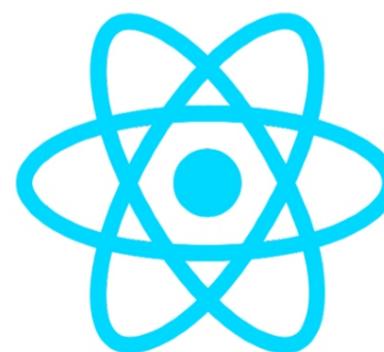
2010



2010



2011



React

2013



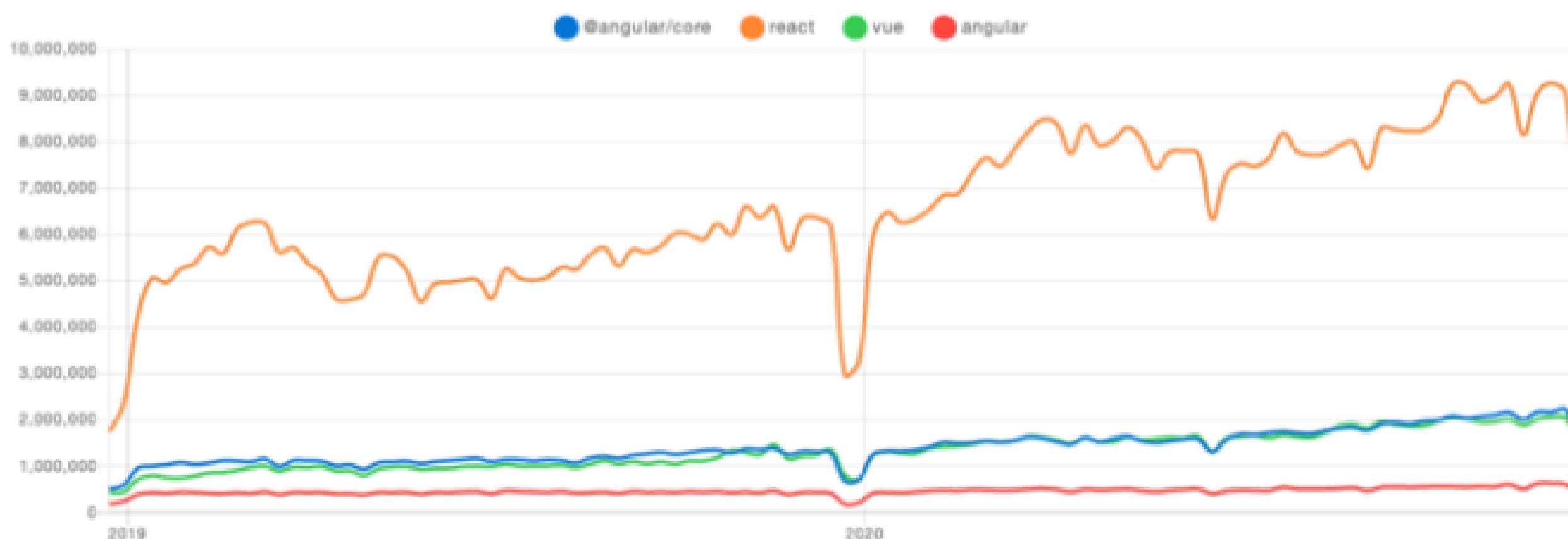
Vue.js

2014

# Angular vs React vs Vue

```
349  
350  
351  
352 /* Menu  
353 #access {  
354   display: inline-block;  
355   height: 69px;  
356   float: left;  
357   width: 100px;  
358 }  
359 .menu {  
360   background-color: white;  
361   border: 1px solid black;  
362   border-bottom: none;  
363   border-radius: 0 0 10px 10px;  
364   padding: 10px 0;  
365 }  
366 .menu a {  
367   color: inherit;  
368   font-size: 1em;  
369   font-weight: bold;  
370   margin: 0 10px;  
371 }  
372 .menu a:link {  
373   text-decoration: none;  
374 }  
375 .menu a:visited {  
376   text-decoration: none;  
377 }  
378 .menu a:hover {  
379   text-decoration: underline;  
380 }  
381 .menu a:active {  
382   text-decoration: underline;  
383 }
```

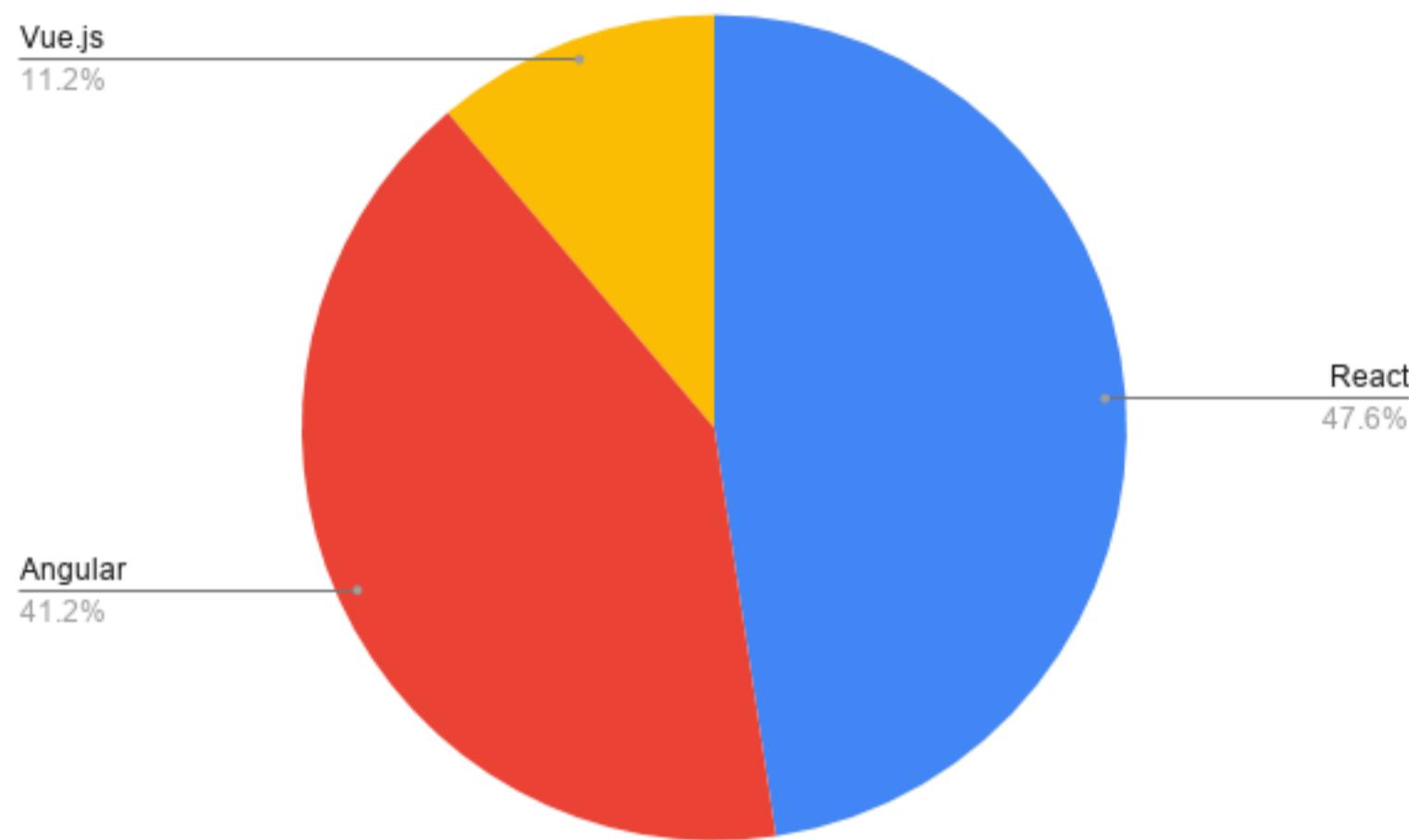
	Angular	React	Vue
Initial release	2010	2013	2014
Official site	<a href="https://angular.io">angular.io</a>	<a href="https://reactjs.org">reactjs.org</a>	<a href="https://vuejs.org">vuejs.org</a>
Approx. size (KB)	500	100	80
Current version	9	16.x	2.6.x
Used by	Google, Wix	Facebook, Uber	Alibaba, GitLab



Source: [npmtrends.com](https://npmtrends.com)

# Angular vs React vs Vue

Missions



Sondage au 2 janvier 2021

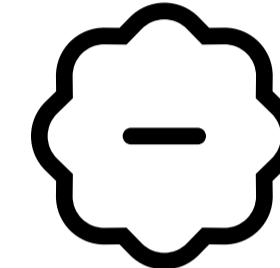
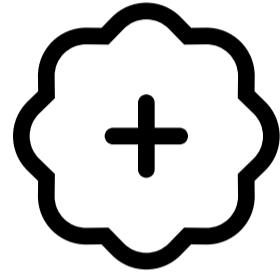
📊 Out of only these four client-side frameworks, which one are you most likely to choose for a new project?

(I know there are other great frameworks, but polls can only have 4 😊)

Vue	43,2 %
Angular	8,8 %
React ✅	41,8 %
Svelte	6,3 %

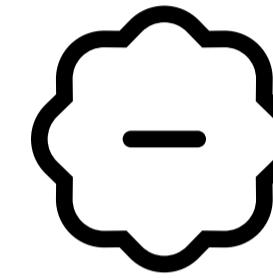
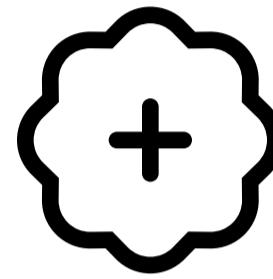
8 005 votes · 16 heures restantes

# Framework Angular



10 ans d'existence	✓	X	Courbe de progression lente
Développé par Google	✓	X	Volumineux
Architecture MVC	✓		
TypeScript	✓		

# Framework Vue.js



Léger



Peu de supports  
(communauté naissante)

Courbe d'apprentissage  
rapide

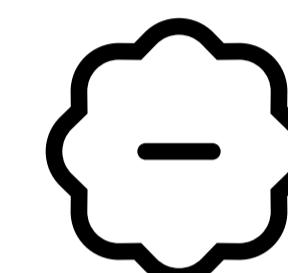
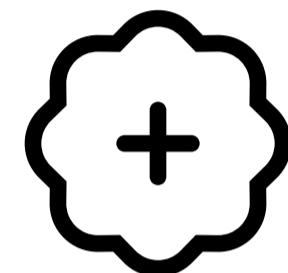
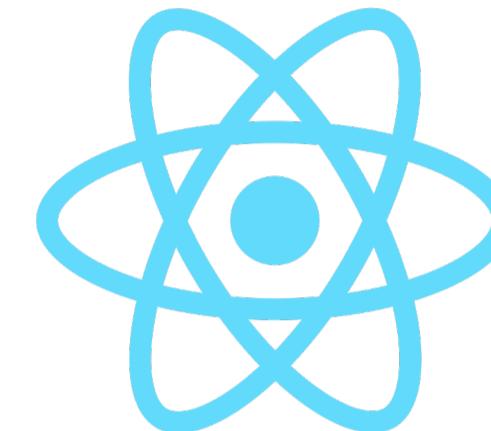


Peu de missions  
pour l'instant

S'intègre partout



# Bibliothèque React



Popularité



Incomplet

SEO



Très verbeux

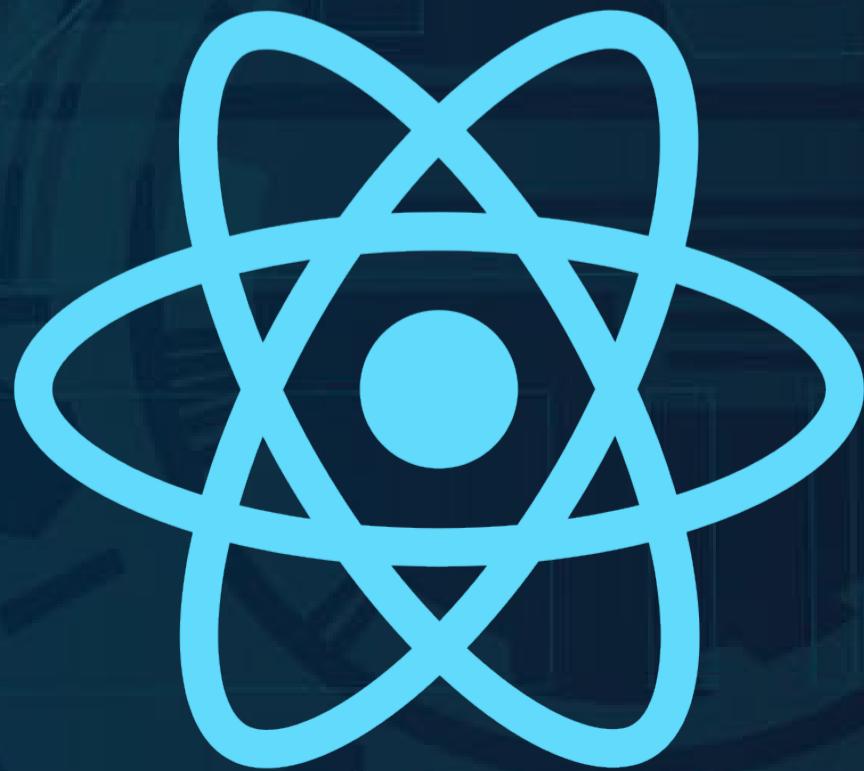
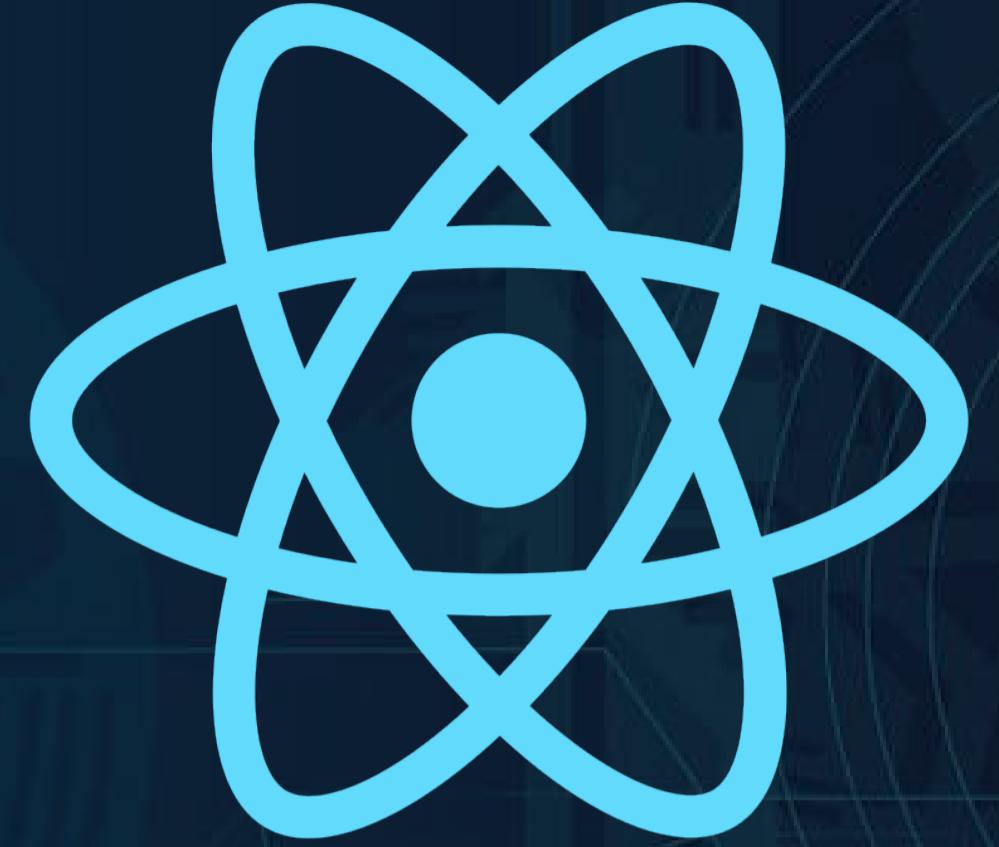
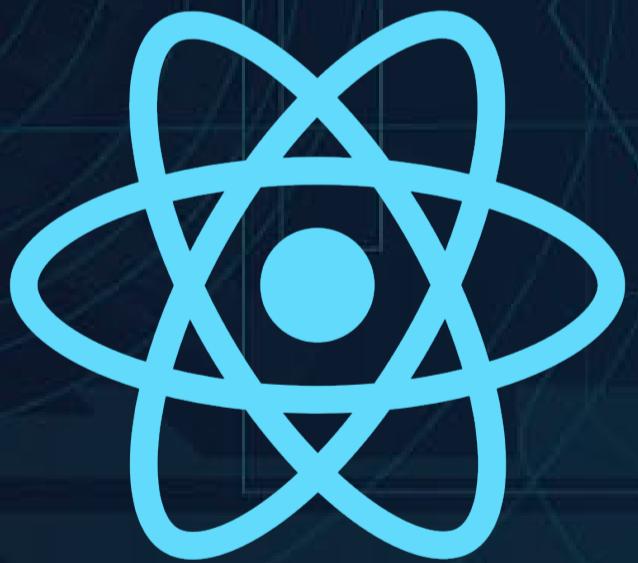
Très bonne UX



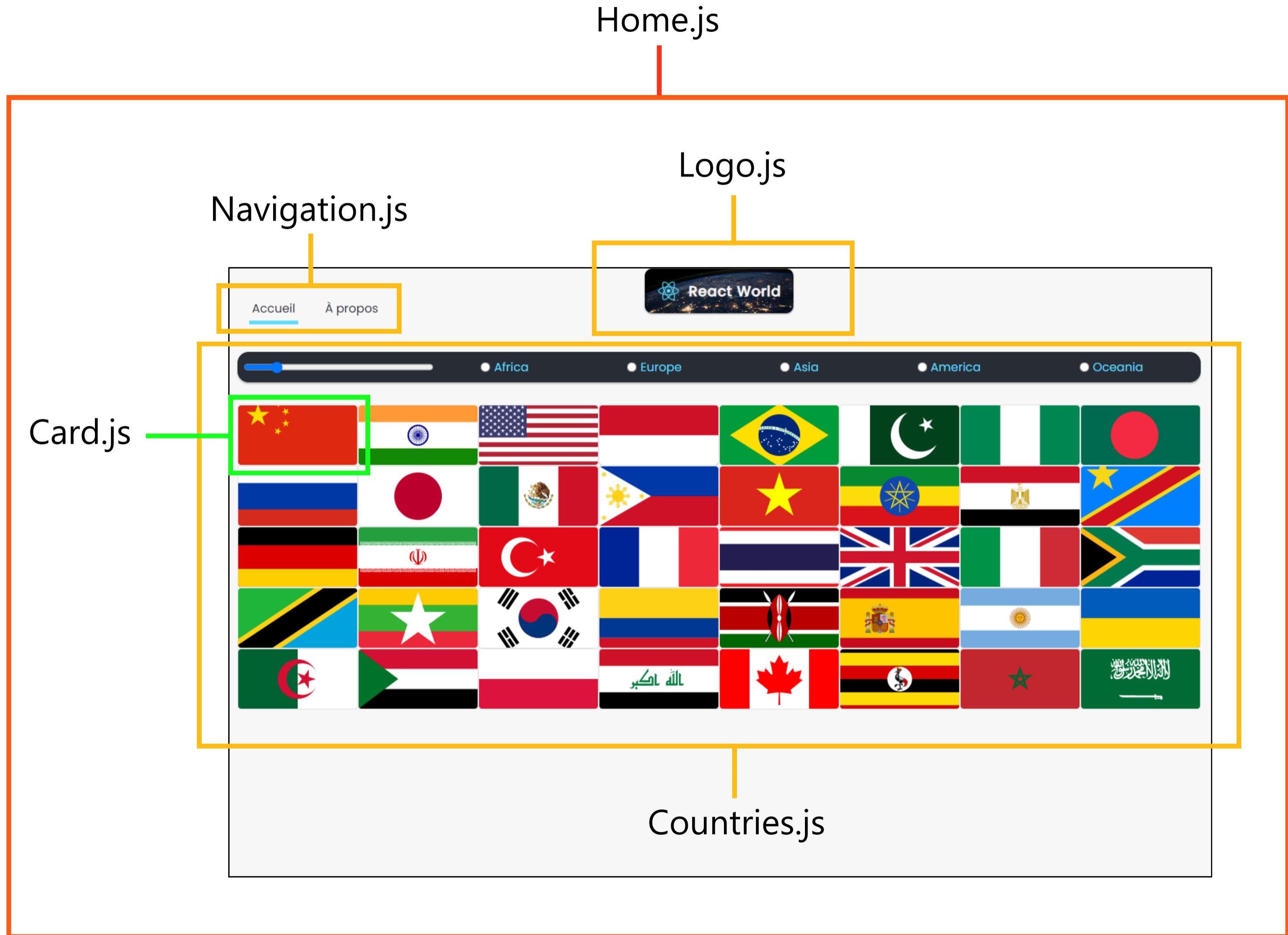
Développé par FB



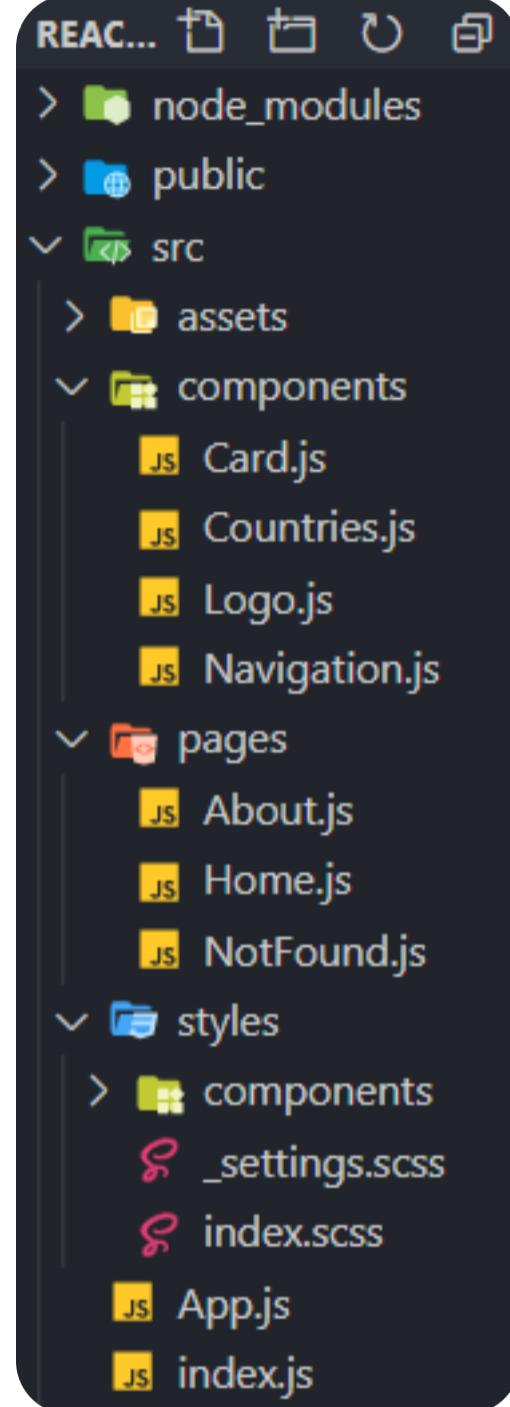
# REACT



# Tout est un composant



# Structure des fichiers



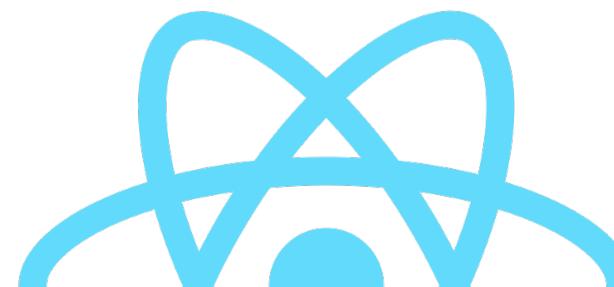
# Composant basique

1 component =  
1 fonction

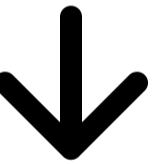
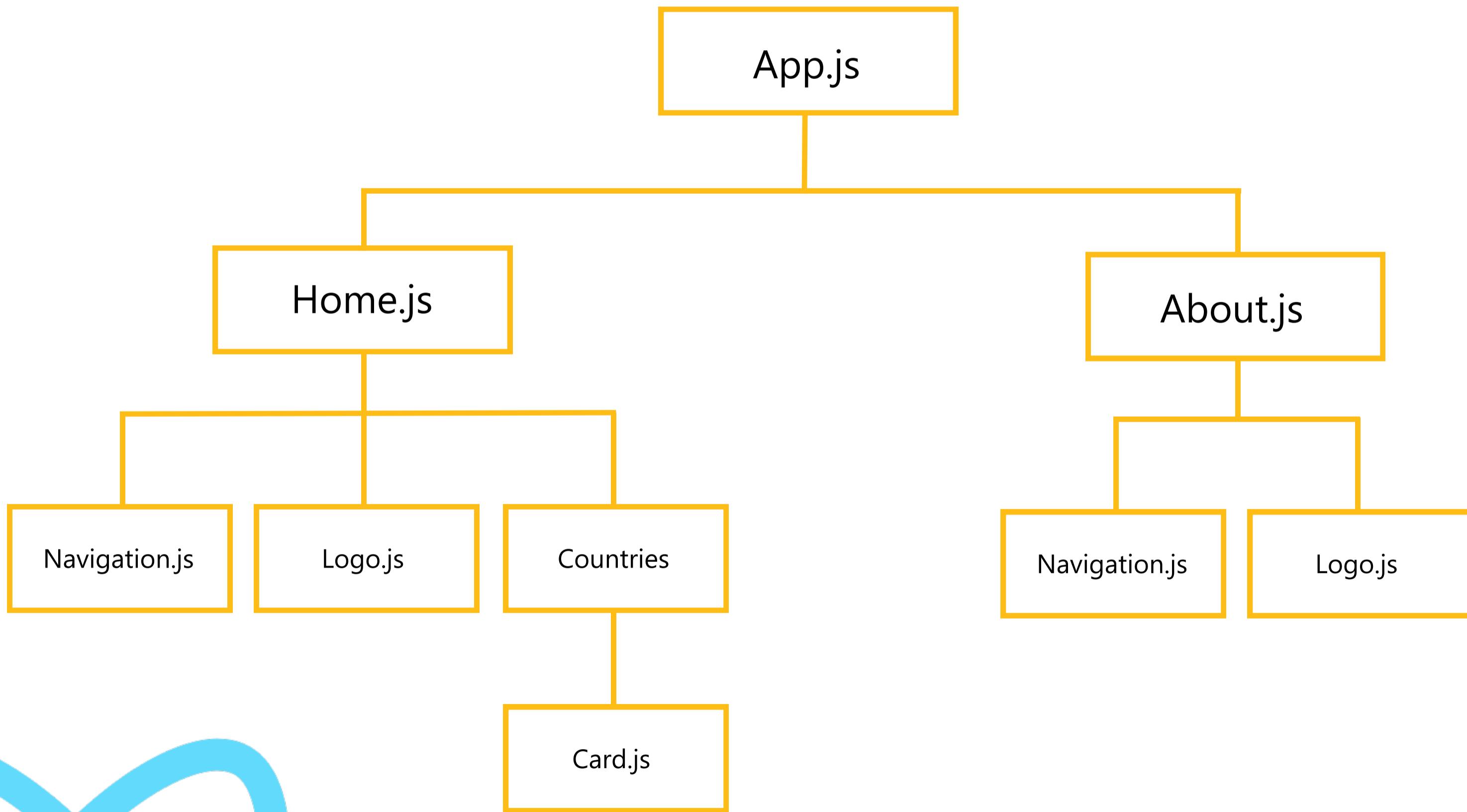
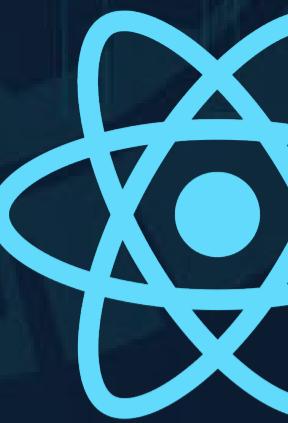
Fonction(s)

Rendu visuel  
(JSX)

```
1 import React from "react";
2
3 const Card = (props) => {
4   const { country } = props;
5
6   const numberFormating = (x) => {
7     return x.toString().replace(/\B(?=(\d{3})+(?!\d))/g, " ");
8   };
9
10  return (
11    <li className="card">
12      <img src={country.flag} alt="flag" />
13      <div className="data-container">
14        <ul>
15          <li>{country.name}</li>
16          <li>{country.capital}</li>
17          <li>Pop. {numberFormating(country.population)}</li>
18        </ul>
19      </div>
20    </li>
21  );
22
23
24 export default Card;
```



# Arborescence des composants



# Au boulot !

- ✓ Installer React
- ✓ Créer un router
- ✓ Créer un component
- ✓ Structurer le style

Créer un site vitrine en React



# Installer React

Dans la console (se placer sur le dossier ou bureau)

- ✓ node -v
- ✓ npm -v
- ✓ npx create-react-app nom-projet
- ✓ cd nom-projet
- ✓ code .

**Lancer projet : npm start**  
**Reprendre projet : npm i**  
**Compiler projet : npm run build**

**Bibliothèques utiles :**  
**npm i -s react-router react-router-dom sass**