


Introduction à React.js

HETIC P2023

Hello 🧑


Grégoire Mielle

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 Étudiant en H5

 Software Engineer @PayFit

 Freelance

Une expertise pour tout le monde

Une compétence pour vos futurs projets & stages

Si vous êtes perdu, dites-le

Challengez-moi !

Méthodologie



Must read



Must watch



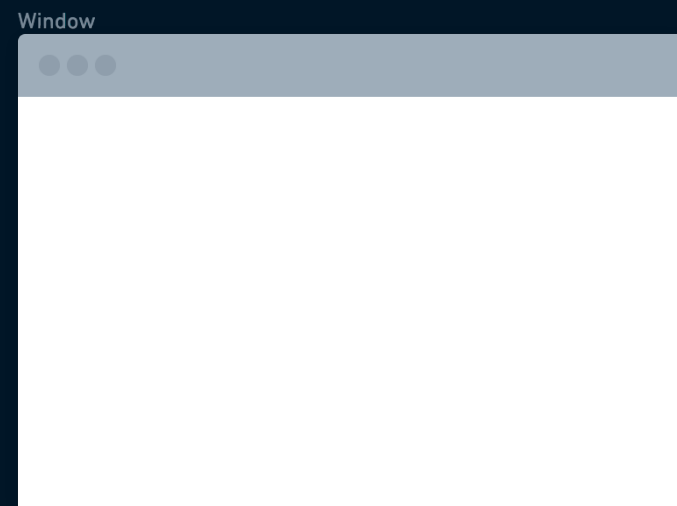
Must learn



Action time

Un peu d'histoire...

Comment fonctionne l'affichage d'une page web ?



 Comment le web fonctionne ?



Quel est le lien entre toutes ces technologies ?

Technologies client-side

Interfaces plus complexes

Beaucoup plus d'interactions

Les besoins côté utilisateur ont évolué

Expérience mobile (3G, offline, etc.)

Sources de données nombreuses



craigslist

post to classifieds

my account

search craigslist

search

event calendar

M	T	W	T	F	S	S
21	22	23	24	25	26	27
28	29	30	31	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17

help, faq, abuse, legal

avoid scams & fraud

personal safety tips

terms of use

privacy policy

system status

about craigslist

craigslist is hiring in sf

craigslist open source

craigslist blog

best-of-craigslist

craigslist TV

SF bay area ^w

sfc

sby

eby

pen

nby

scz

community

activities local news
artists lost+found
childcare musicians
classes pets
events politics
general rideshare
groups volunteers

personals

strictly platonic
women seek women
women seeking men
men seeking women
men seeking men
misc romance
casual encounters
missed connections
rants and raves

discussion forums

apple help photo
arts history p.o.c.
atheist housing politics
autos jobs psych
beauty jokes queer
bikes kink recover
celebs legal religion
comp linux romance
crafts m4m science
diet manners spirit
divorce marriage sports

housing

apts / housing
housing swap
housing wanted
office / commercial
parking / storage
real estate for sale
rooms / shared
rooms wanted
sublets / temporary
vacation rentals

for sale

antiques farm+garden
appliances free
arts+crafts furniture
atv/utv/sno garage sale
auto parts general
baby+kid heavy equip
barter household
beauty+hlth jewelry
bikes materials
boats motorcycles
books music instr
business photo+video
cars+trucks rvs+camp
cds/dvd/vhs sporting
cell phones tickets
clothes+acc tools
collectibles toys+games
computers video gaming

jobs

accounting+finance
admin / office
arch / engineering
art / media / design
biotech / science
business / mgmt
customer service
education
food / bev / hosp
general labor
government
human resources
internet engineers
legal / paralegal
manufacturing
marketing / pr / ad
medical / health
nonprofit sector
real estate
retail / wholesale
sales / biz dev
salon / spa / fitness
security
skilled trade / craft
software / qa / dba
systems / network
technical support
transport
tv / film / video
web / info design

english

nearby cl

bakersfield
chico
fresno
gold country
hanford
humboldt
inland empire
klamath falls
las vegas
los angeles
medford
mendocino co
merced
modesto
monterey
orange co
palm springs
redding
reno
roseburg
sacramento
san luis obispo
santa barbara
santa maria
siskiyou co
stockton
susanville
ventura
visalia-tulare
yuba-sutter

us cities

us states

Home

Moments

Notifications

Messages

Twitter

Search Twitter

Tweet

</

De nouvelles solutions ont émergé

Jquery (2006)

Angular.js (2009)

Ember.js (2011)

React.js (2013)

Vue.js (2014)



Comment bien les choisir ?

Quelles différences/ressemblances ?



State of JS - 2019 Edition

Install

```
> npm i react
```

↓ Weekly Downloads

7,380,054



Version

16.13.0

License

MIT

 facebook / react

 Used by ▼ 3.2m

 Watch ▼ 6.6k

 Unstar 145k

 Fork 27.8k

 Code

 Issues 466

 Pull requests 88

 Actions

 Projects 0

 Wiki

 Security

 Insights

A declarative, efficient, and flexible JavaScript library for building user interfaces. <https://reactjs.org>

javascript

react

frontend

declarative

ui

library



React Developer Tools

Proposé par : Facebook



1247

| [Outils de développement](#) |



2 000 000+ utilisateurs

React.js

A JavaScript library for building user interfaces

Declarative

Component-Based

Learn Once, Write Anywhere

Declarative vs Imperative

Dessine un chat. vs Fais un trait noir, puis un arrondi vers le bas, etc.

Imperative

<i>fx</i>				
	A	B	C	D
1	Last name	Firstname	Full name	
2	John	Doe	John Doe	
3				

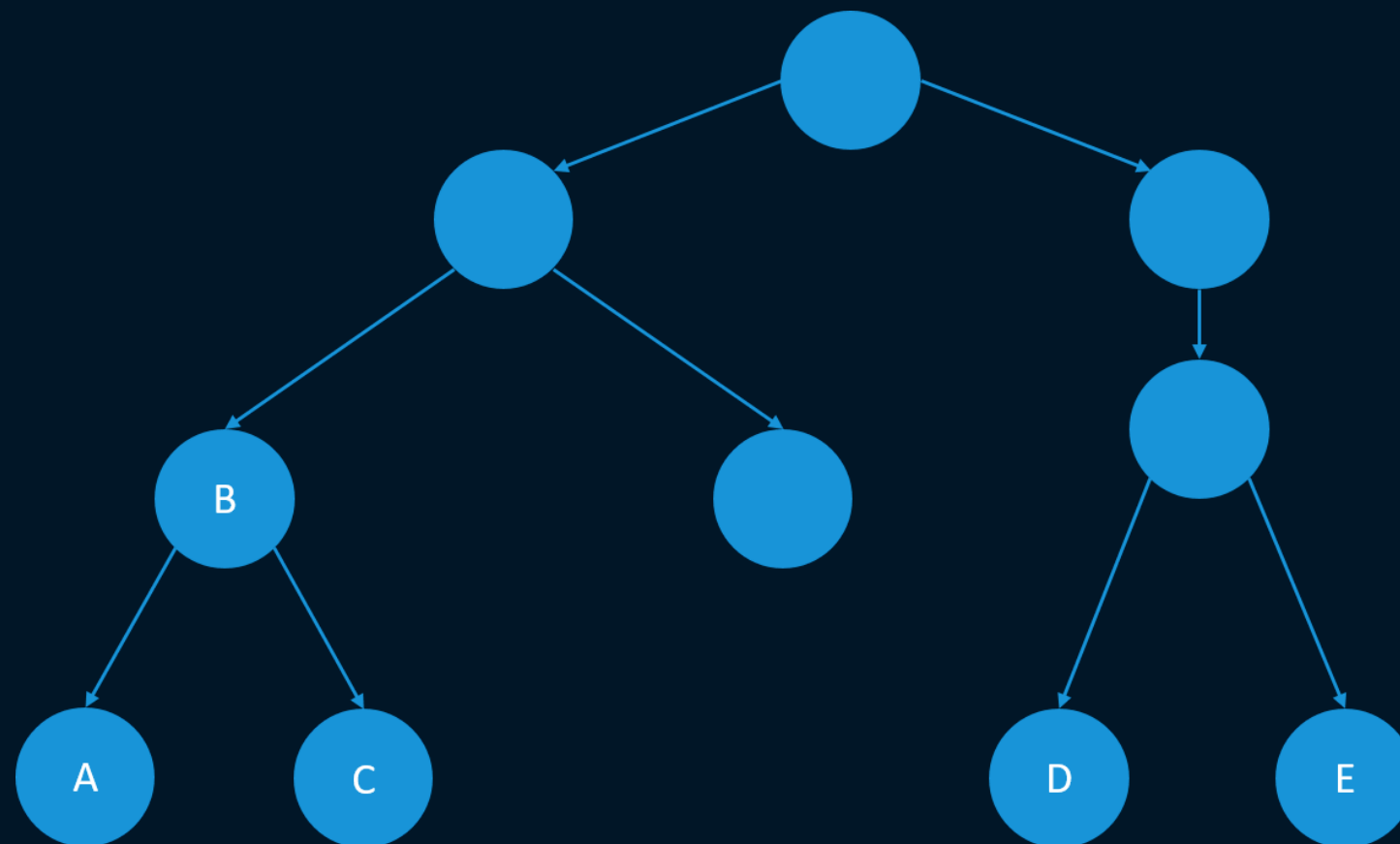
On doit effectuer un calcul à chaque modification d'une des 2 variables qui définissent "fullname"

Declarative

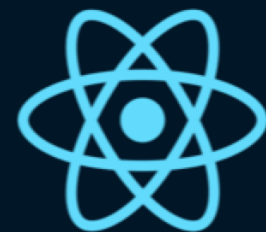
<i>fx</i>			
	A	B	C
1	Last name	Firstname	Full name
2	John	Doe	John Doe
3			

On déclare comment "fullname" est défini sans jamais le modifier manuellement

Component-based



Learn Once, Write Anywhere



React Native



oculus



React Podcast: Evan Bacon on Expo and the Future of
"Build Once; Run Anywhere"

Qui l'utilise ?

Facebook (FB.com, WhatsApp, Instagram)

American Express

Apple

Baidu

Netflix

Uber

Qui l'utilise ?

Skype

Tesla

Slack

Discord

Walmart

Pinterest

Qui l'utilise ?

Twitter

PayPal

Tinder

AirBnB

Dropbox

PayFit

Hello World 🚀

Comment crée-t-on un élément du DOM en
Javascript ?

```
<body>
  <div id="root"></div>

  <script type="text/javascript">
    function addHelloWorld() {
      const root = document.querySelector('#root')
      const element = document.createElement('div')
      element.textContent = 'Hello World'
      element.className = 'container'
      root.appendChild(element)
    }
  </script>
</body>
```

On l'ajoute dans le parent

Avec React.js

```
<body>
  <div id="root"></div>

  <script src="https://unpkg.com/react@16.12.0/umd/react.development.js"></script>
  <script src="https://unpkg.com/react-dom@16.12.0/umd/react-dom.development.js"></script>
  <script type="text/javascript">
    const root = document.getElementById('root')
    const element = React.createElement('div', {
      className: 'container',
      children: 'Hello World',
    })
    ReactDOM.render(element, root)
  </script>
</body>
```

On l'ajoute dans le parent

Pour utiliser React.js on a donc besoin de 2 packages

React: La logique pour construire des interfaces

React DOM: Les logiques d'interaction avec le DOM

```
<body>
  <div id="root"></div>

  <script src="https://unpkg.com/react@16.12.0/umd/react.development.js"></script>
  <script src="https://unpkg.com/react-dom@16.12.0/umd/react-dom.development.js"></script>
  <script type="text/javascript">
    const root = document.getElementById('root')
    const element = <div className="container">Hello World</div>
    ReactDOM.render(element, root)
  </script>
</body>
```

Du HTML dans du Javascript 🤔

Le JSX

Une extension syntaxique au Javascript

Transpilé par **Babel** en Javascript

Permet de définir des composants React simplement

Les composants React.js

