Programmation Web – Avancé

JavaScript & Node.js Contexte d'utilisation de JS





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Contexte d'utilisation de JS

Pourquoi du JS ? Où ? ...

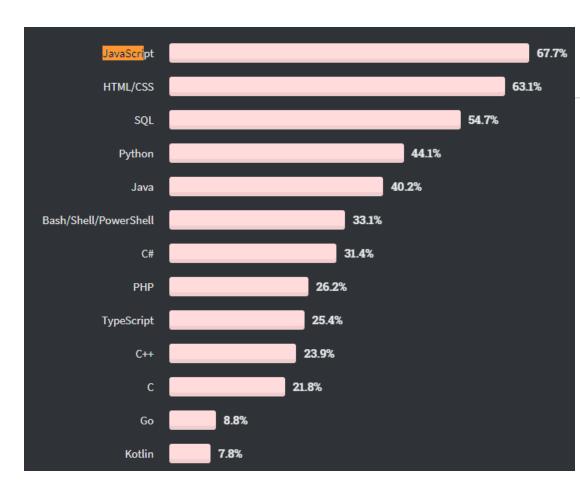


Utilisation de JS

Sondage 2020 de stackoverflow [8.]

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langage de programmation le plus utilisé depuis 8 ans !



WHAT HAPPENS IN ONE MINUTE?

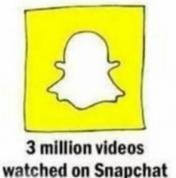


Phénomène de fatigue...





70,000 Hours of Netflix watched





Google is asked 2.4 million questions



A new JS framework appears



(Sur)Diversité de ____

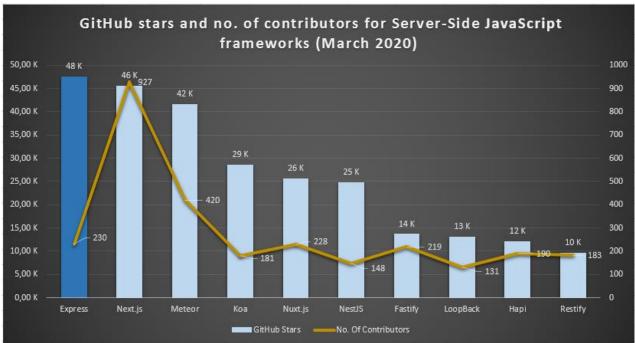
Librairies et
 frameworks JS en
 2021 côté client
 [10.]





(Sur)Diversité de JS

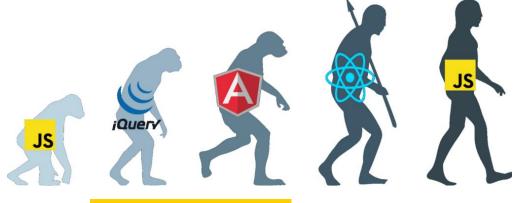
 Librairies et frameworks
JS en 2020 côté serveur
[11.]



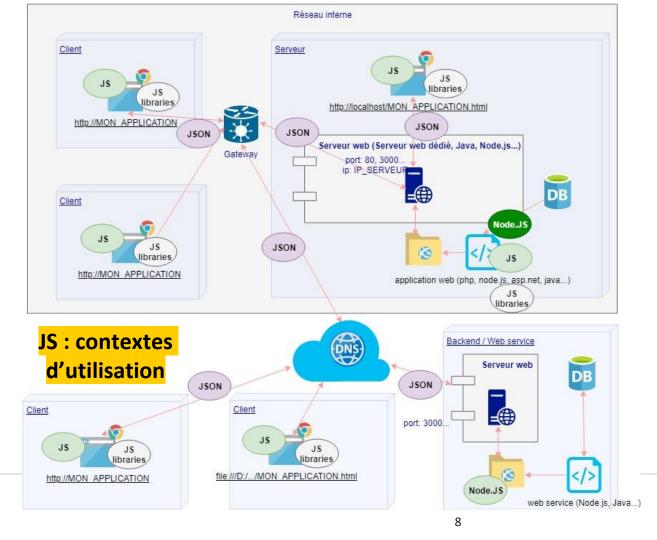


Lignes directrices du cours : Quel framework ? Quels librairies ?

- Coté client : Priorité sur Vanilla JS [12.]
- Côté serveur : Express
- Découvertes de librairies et frameworks « trendy » pour vos animations, communications...

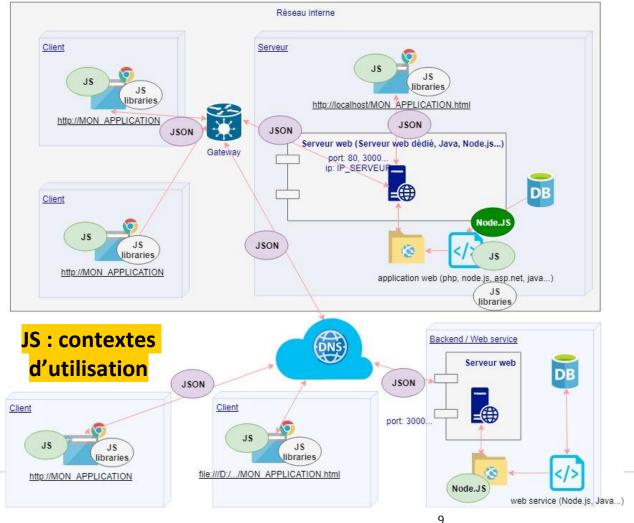


Evolution de JS [13.]



1. Applications frontend classiques

Librairies JS & frameworks: JQuery, Phaser, Anime.js, AngularJS, React...

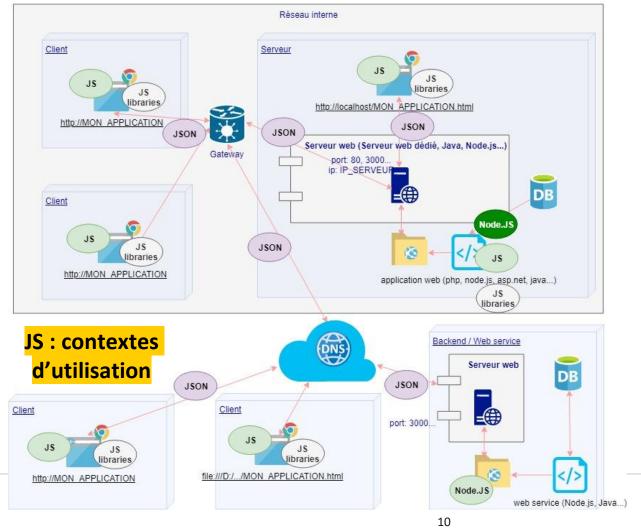


2. Applications backend

- Node.js
- **Express**
- Next.js

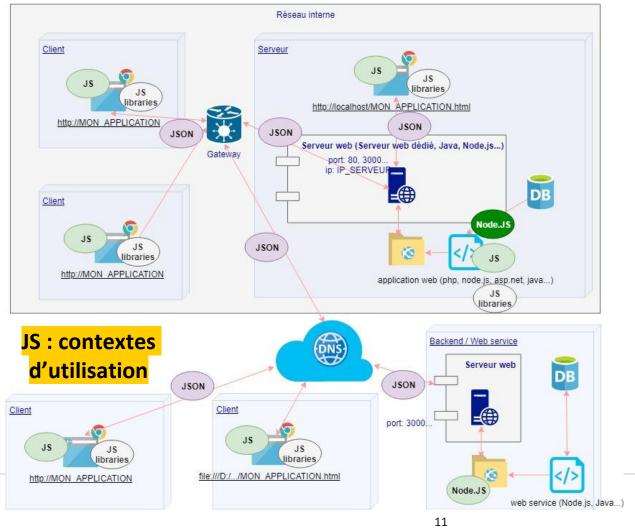
3. Communication des données

JavaScript Object Notation (JSON)



4. Applications mobiles clientes / Cross Platform applications:

- Progressive Web Applications (PWA)
- HybridApplications(Cordova, Ionic...)
- Real NativeApplications(React Native,NativeScript...)



5. Sur-ensemble de JS / langage compliant vers JS :

- TypeScript
- CoffeScript

6. Embedded scripts

- Chrome extensions
- Google Apps Script
- 7 ..

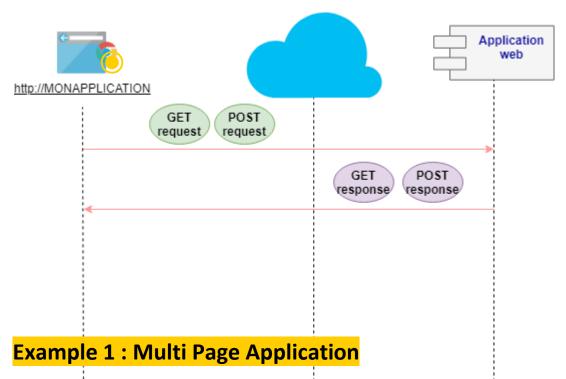


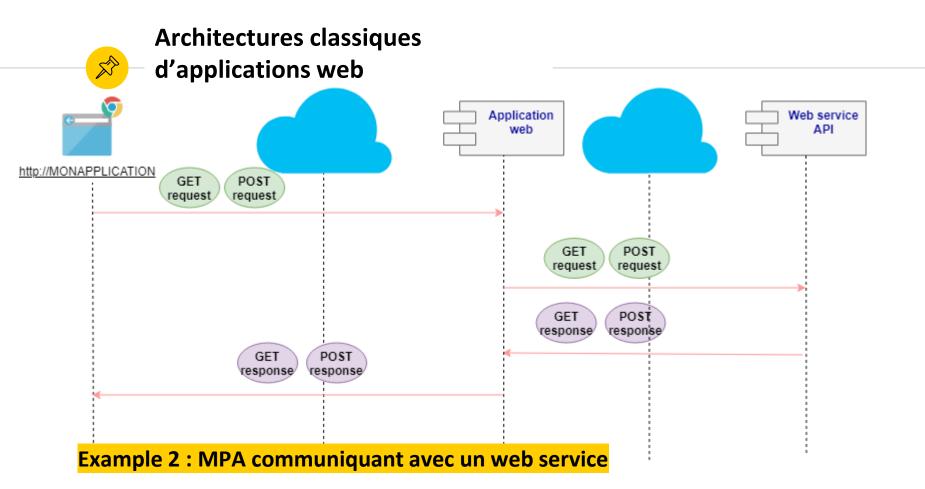
Architectures d'applications web et JS

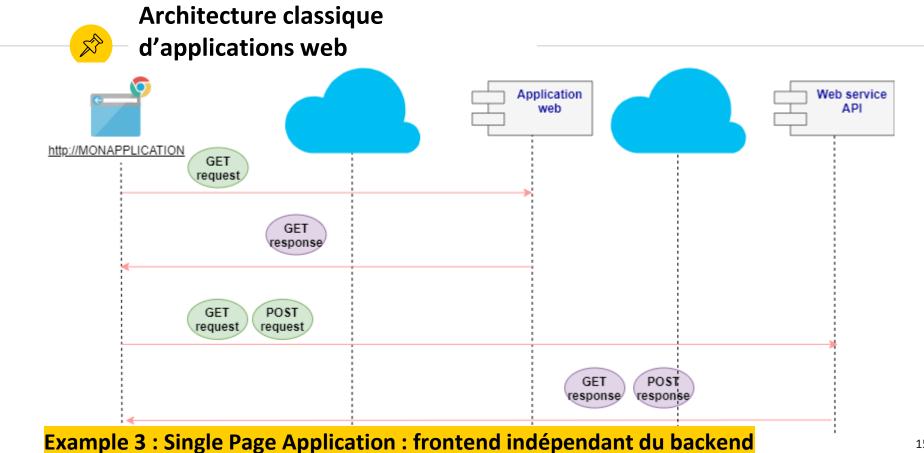
- Quelques architectures classiques web frontend/ backend :
 - Multi Page Applications
 - Single Page Applications :
 - Frontend
 - Backend / API
 - RESTful API
 - GraphQL
 - WebSocket



Architectures classiques d'applications web

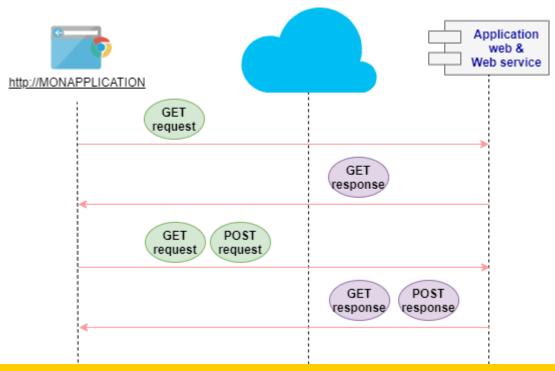






SP -

Architectures classiques d'applications web



Example 4: Single Page Application: application monolithique



Autres types d'architectures web

- A explorer par vous-même optionnellement :
 - Progressive Web Applications
 - Hybrid Applications (Cordova, Ionic...)
 - Microservices
 - JAMStack [14.]
 - **O** ..