



Réduis ton empreinte
carbone avec du Push et
JSON-Patch

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Cédric Tran-Xuan



@ctranxuan

Dev @streamdata.io





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Les nouvelles technologies



100 centrales nucléaires en 2015



Appareils

39 GW

Réseaux

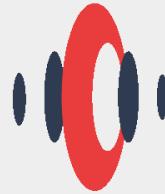
37 GW

Data centers

37 GW



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Des applications de plus en plus « temps-réel »



- Bourse / Partage ligne
- Réseaux sociaux
- Moteurs de recherche
- Info



lieux de
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en

- ..
- ..





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Question : peut-on sauver les pandas ?

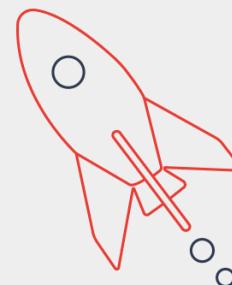
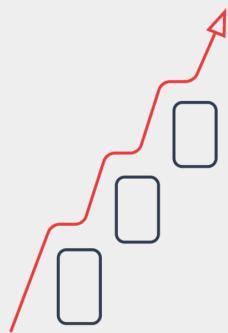




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Développement efficace



Un crément, Hal ? (*)

push, don't poll



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Incrémental : JSON-Patch

Document d'origine

rfc 6902

```
{  
    "baz": "qux",  
    "foo": "bar"  
}
```

Patch

```
[  
    { "op": "replace", "path": "/baz", "value": "boo" },  
    { "op": "add", "path": "/hello", "value": ["world"] },  
    { "op": "remove", "path": "/foo" }  
]
```

Résultat

```
{  
    "baz": "boo",  
    "hello": ["world"]  
}
```

<http://jsonpatch.com>



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6 opérations

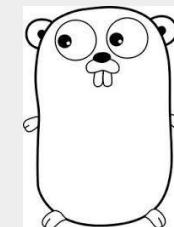
- add
- remove
- replace
- copy
- move
- test



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Implémentée dans de nombreux languages



...



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Push



Push is the Hollywood principle for the APIs



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Push

Cometd, Long polling



Websockets



Server-Sent Events (SSE)





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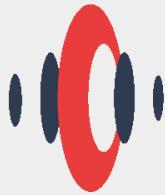


Push

	Browser support	Web infra compatibility	Easiness to dev	Load (network / Device)	App latency
Polling/Long Polling	★	★	★	★	★
Websocket	★	★	★	★	★
SSE	★	★	★	★	★



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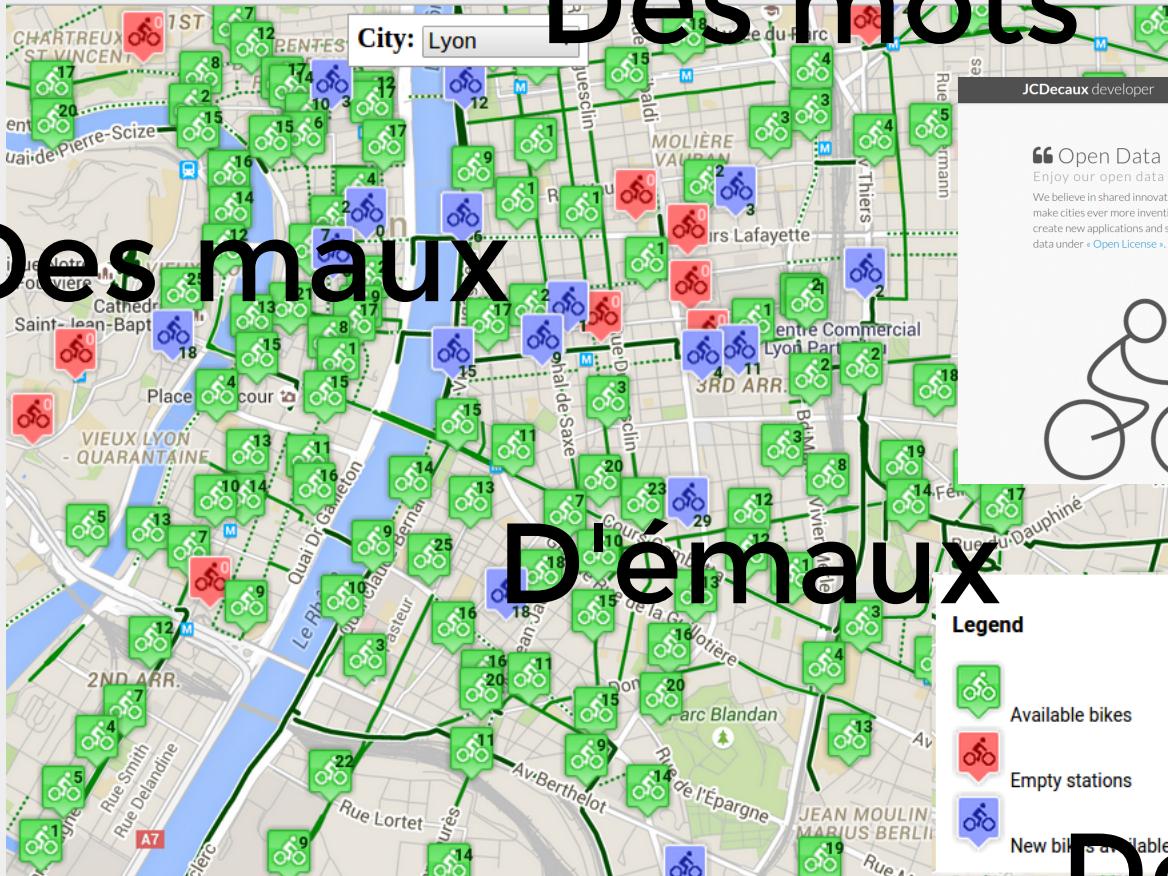


Des maux

Des mots

D'émaux

Démo ?



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Questions?

Merci à [Gregory Houllier](#) pour l'utilisation du thème
BreizhCamp avec revealjs

