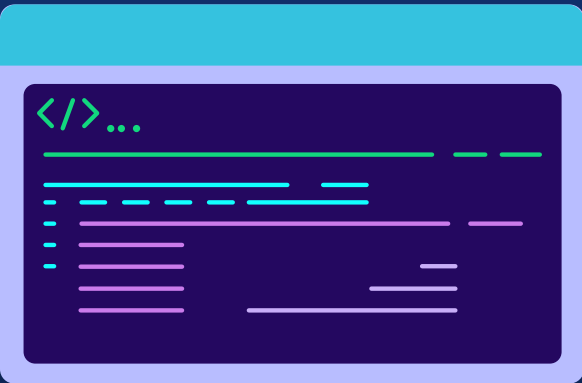


Typescript



Ajouter typescript à un simple projet
nodejs



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Ajouter au
projet





Installer typescript dans un projet

Configurer
tsconfig.json

Ajuster package.json

```
npm i typescript @types/node --save-dev //install  
typescript
```

```
npx tsc --init // crée tsconfig.json
```

```
npx tsc // Compile le code
```



Typage

Typescript permet un typage strict à la compilation





Typage des variables et des fonctions

```
const a: Number = 12;
```

```
const b: string = 234;
```

```
// type number is not  
assignable to type  
string !
```



```
const sum = (a: number, b: number):  
number => {  
  return a + b;  
};
```



Énumérations

Typescript permet de vraies énumérations





Énumérations


```
enum Color {  
    Red = "red",  
    Green = "green",  
    Blue = "blue",  
}
```





Interfaces

Typescript permet des interfaces propres déclarés
comme types, avec héritage





Interfaces - déclaration

```
interface IAnimal {  
    name: string;  
    age: number;  
    color: string;  
    nbLegs: number;  
}
```

```
interface IMammal extends IAnimal {  
    nbLegs: 4;  
    nbWalkingLegs: 2 | 4;  
}
```





Interfaces - instantiation

```
const cat: IMammal = {  
  name: "Garfield",  
  age: 3,  
  color: "orange",  
  nbLegs: 4,  
  nbWalkingLegs: 4,  
};
```

