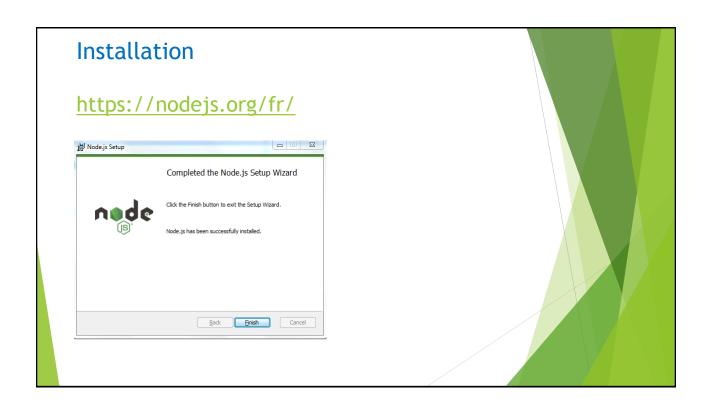


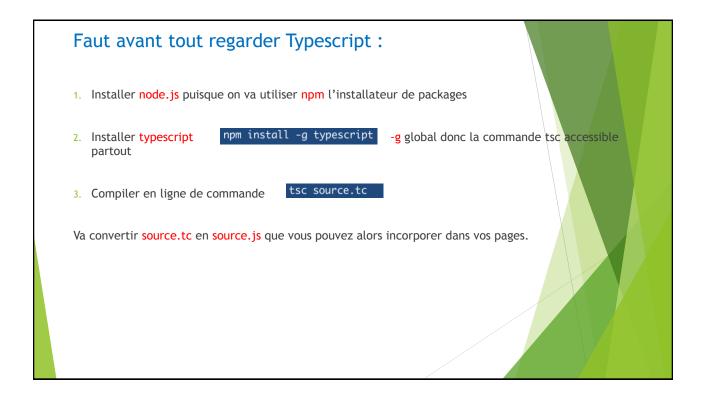
# Si des problèmes avec Visual Studio Code ajouter dans le votre projet :

Exemple: module not found

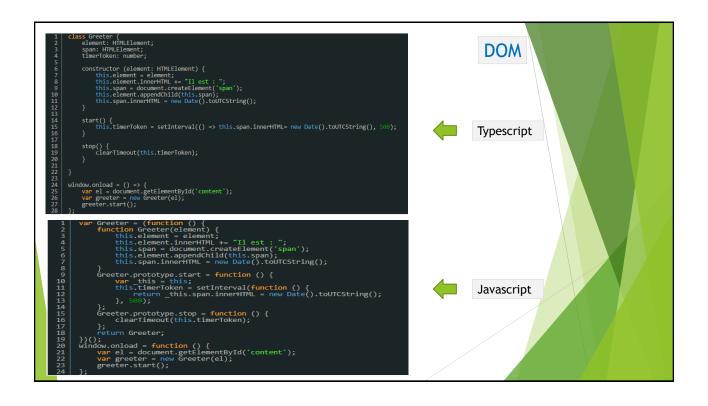
```
{
    "typescript.tsdk": "node_modules/typescript/lib",
    "git.ignoreLimitWarning": true
}
```

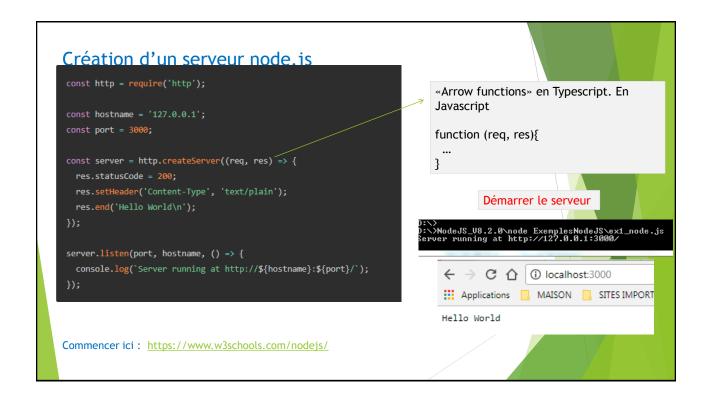
Nota : parfois il faudra démarrer vsc par une nouvelle fenêtre pour que le fichier soit pris en compte.



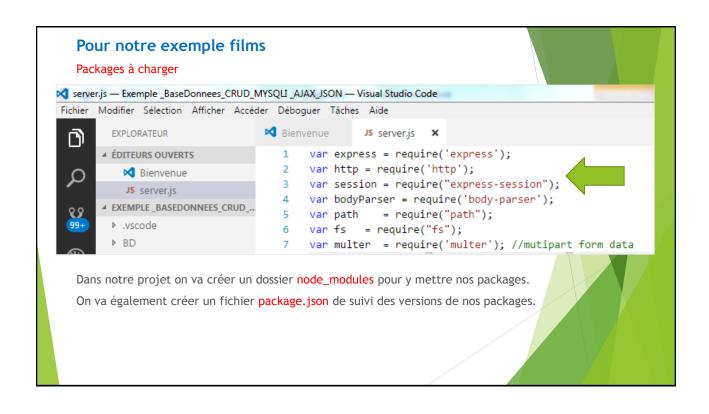


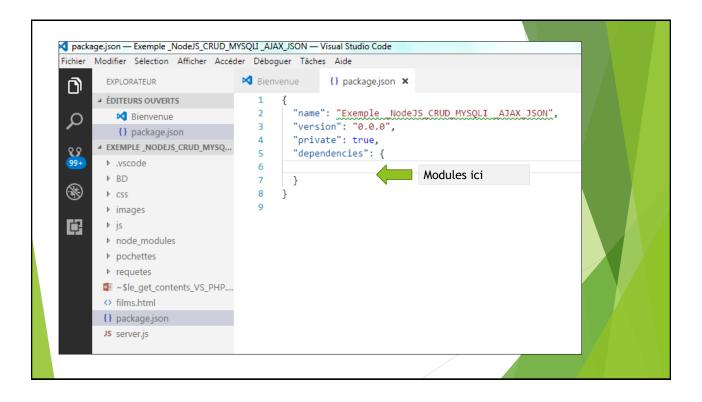
```
1 class voiture {
                                                          1 var voiture = (function () {
       passagers = 4;
                                                          2
                                                               function voiture(personnes) {
   3 constructor(personnes : number) {
                                                                  this.passagers = 4;
         this.passagers = personnes;
                                                                  this.passagers = personnes;
   5 }
                                                          5
   6
                                                          6
                                                               voiture.prototype.mamethode = function (message) {
      mamethode(message : string) {
                                                                 console.log(message);
                                                          8
                                                               }:
   8
       console.log(message);
   q
                                                          9
                                                               return voiture;
  10 }
                                                         10 })();
  11
                                                         11
  12 var mavoiture = new voiture(2);
                                                         12 var mavoiture = new voiture(2);
Quelques références:
https://www.tutorialspoint.com/typescript/typescript_tutorial.pdf (un pdf avec tout)
https://www.w3schools.com/js/
                                      (plutôt pour approfondir javascript)
https://www.tutorialspoint.com/typescript/index.htm
https://www.typescriptlang.org/index.html
http://yahiko.developpez.com/tutoriels/introduction-typescript/
```



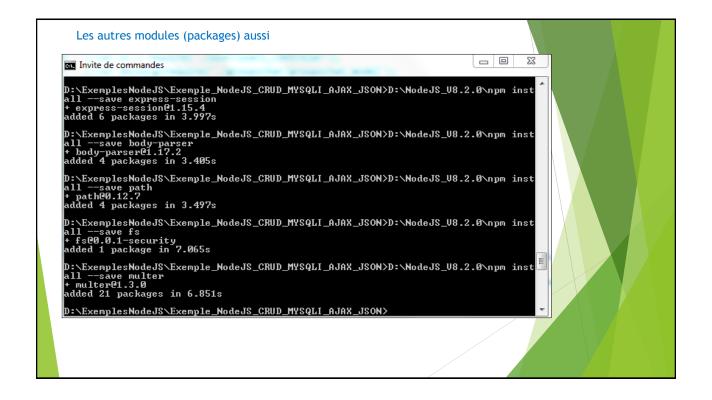


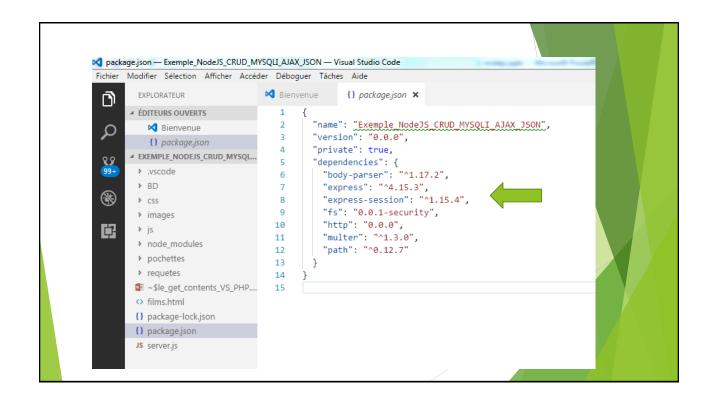


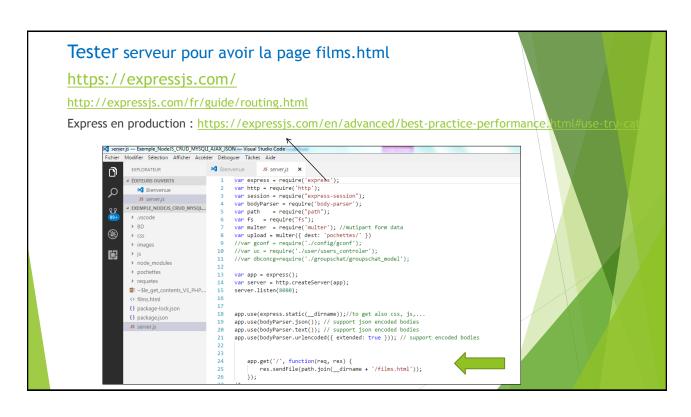




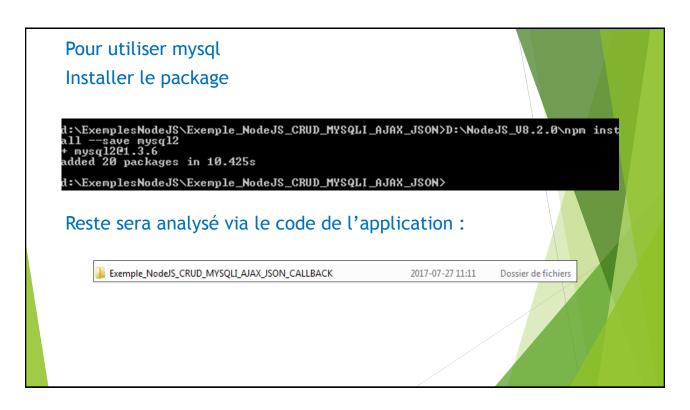
L'option --save indique à NPM d'inclure automatiquement le paquet dans la section des dépendances de votre package.json, ce qui vous permet d'économiser une étape supplémentaire. Pour installer le framework express la même chose pour tous les autres. Pour enlever un package npm uninstall <nom du package> ExemplesNodeJS\Exemple\_NodeJS\_CRUD\_MYSQLI\_AJAX\_JSON>D:\NodeJS\_V8.2.0\npm inst all --save express + express04.15.3 added 1 package in 1.743s D:\ExemplesNodeJS\Exemple\_NodeJS\_CRUD\_MYSQLI\_AJAX\_JSON> lodeJS ▶ Exemple\_NodeJS\_CRUD\_MYSQLI\_AJAX\_JSON ▶ node\_modules ▶ Nom Modifié le 2017-07-26 11:42 accepts 2017-07-26 11:42 Dossier de fichiers "name": "Exemple NodeJS CRUD MYSQLI AJAX JSON", 🅌 array-flatten 2017-07-26 11:42 lacontent-disposition 2017-07-26 11:42 Dossier de fichiers "version": "0.0.0", 2017-07-26 11:42 cookie 2017-07-26 11:42 Dossier de fichiers "private": true, Cookie-signature 2017-07-26 11:42 Dossier de fichier 2017-07-26 11:42 debug Dossier de fichiers "dependencies": { 📗 depd 2017-07-26 11:42 Dossier de fichiers 2017-07-26 11:42 "express": "^4.15.3" la ee-first 2017-07-26 11:42 Dossier de fichiers 2017-07-26 11:42 encodeur } escape-html 2017-07-26 11:42 Dossier de fichiers Dossier de fichiers \mu etag } express
finalhandler 2017-07-26 11:47 Dossier de fichiers

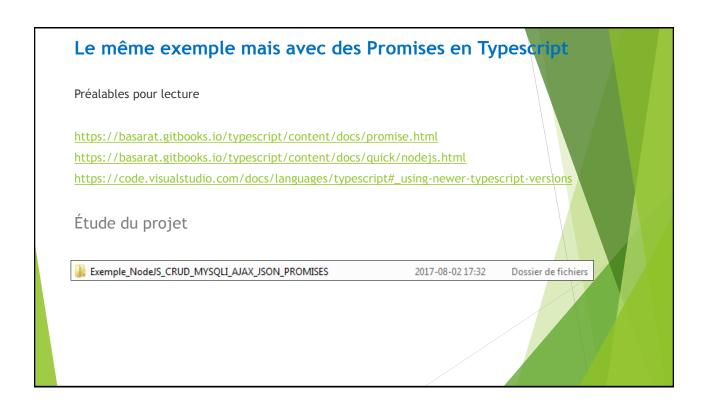


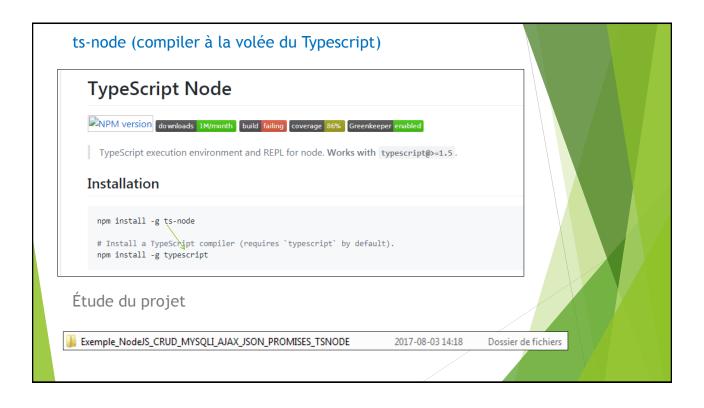


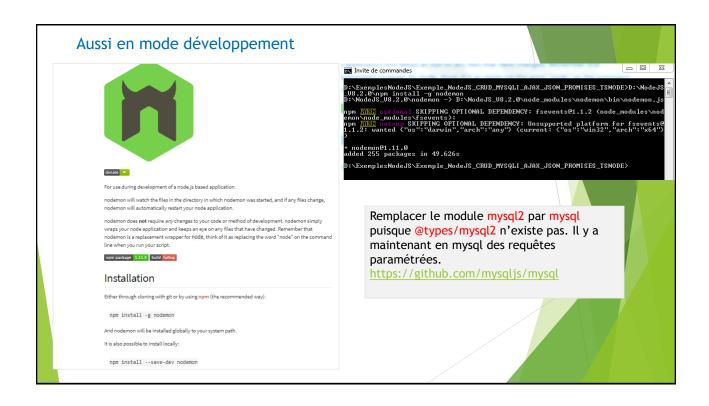


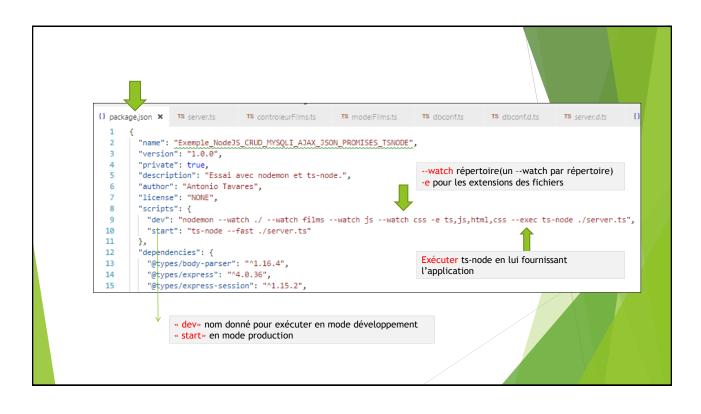




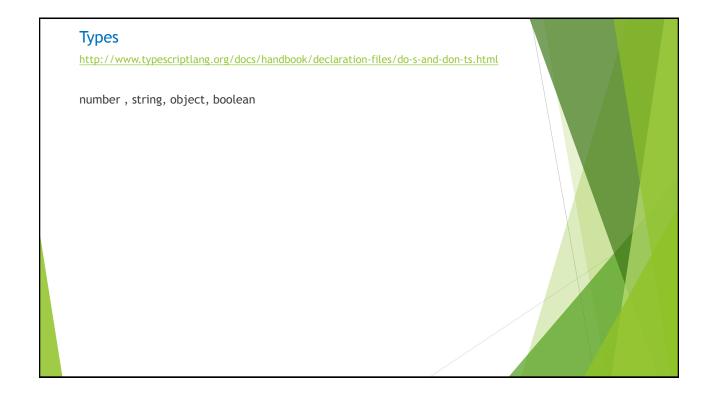












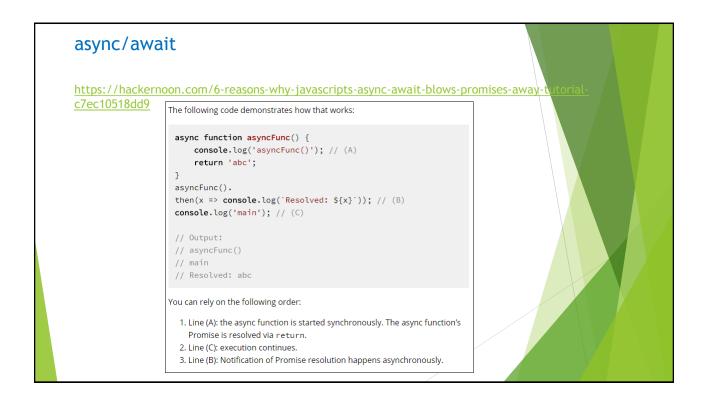
# Promises avec Bluebird http://bluebirdjs.com/docs/getting-started.html npm install bluebird --save Then: var Promise = require("bluebird");

### Quelques raisons sans traduction pour utiliser bluebird

So, here are my top 6 reasons to use a more capable Promise library

- Non-Promisified async interfaces .promisify() and .promisifyAll() are incredibly
  useful to handle all those async interfaces that still require plain callbacks and don't yet return
  promises one line of code creates a promisified version of an entire interface.
- 2. Faster Bluebird is significantly faster than native promises in most environments.
- 3. Sequencing of async array iteration Promise.mapSeries() or Promise.reduce() allow you to iterate through an array, calling an async operation on each element, but sequencing the async operations so they happen one after another, not all at the same time. You can do this either because the destination server requires it or because you need to pass one result to the next.
- 4. Polyfill If you want to use promises in older versions of browser clients, you will need a polyfill anyway. May as well get a capable polyfill. Since node is has ES6 promises, you don't need a polyfill in node is, but you may in a browser. If you're coding both node is server and client, it may be very useful to have the same promise library and features in both (easier to share code, context switch between environments, use common coding techniques for async code, etc...).
- 5. Other Useful Features Bluebird has Promise.map(), Promise.some(), Promise.any(), Promise.filter(), Promise.each() and Promise.props() all of which are occasionally handy. While these operations can be performed with ES6 promises and additional code, Bluebird comes with these operations already pre-built and pre-tested so it's simpler and less code to use them.
- 6. Built in Warnings and Full Stack Traces Bluebird has a number of built in warnings that alert you to issues that are probably wrong code or a bug. For example, if you call a function that creates a new promise inside a ..then() handler without returning that promise (to link it into the current promise chain), then in most cases, that is an accidental bug and Bluebird will give you a warning to that effect. Other built-in Bluebird warnings are described here.

```
Un exemple justificatif par rapport à notre projet précédent
const fs = require('fs');
                                       function readFileAsync(file, options) {
   return new Promise(function(resolve, reject) {
       fs.readFile(file, options, function(err, data) {
           if (err) {
              reject(err);
           } else {
                                              Comme dans le projet précédent.
               resolve(data);
       });
   });
}
readFileAsync('somefile.text').then(function(data) {
  // do something with data here
});
const Promise = require('bluebird');
const fs = Promise.promisifyAll(require('fs'));
                                                       Ce que nous allons faire.
fs.readFileAsync('somefile.text').then(function(data) {
   // do something with data here
});
```



### 6. Parallelism

The following code make two asynchronous function calls, asyncFunc1() and asyncFunc2().

```
async function foo() {
   const result1 = await asyncFunc1();
   const result2 = await asyncFunc2();
}
```

However, these two function calls are executed sequentially. Executing them in parallel tends to speed things up. You can use Promise.all() to do so:

```
async function foo() {
   const [result1, result2] = await Promise.all([
        asyncFunc1(),
        asyncFunc2(),
   ]);
}
```

Instead of awaiting two Promises, we are now awaiting a Promise for an Array with two elements.

## Using Async Await in Express with Node 8

https://medium.com/@Abazhenov/using-async-await-in-express-with-node-8-b8af872c0016

