

**installation ploty.js via webpack**

**Installation de webpack**

\$ npm install --save-dev webpack

**Et installation de webpack-cli**

npm install webpack-cli --save-dev

**Installer bundle ify pour insérer plotly**

\$ npm install --save-dev ify-loader



## Bonne utilisation de webpack

### Charger plotly comme un node module

=> On utilise la distribution bundle en version minifié

<https://www.npmjs.com/package/plotly.js>

-> clic sur Load as a node module

=> <https://www.npmjs.com/package/plotly.js#load-as-a-node-module>

```
npm i --save plotly.js-dist-min
```

```
// ES6 module
import Plotly from 'plotly.js-dist-min'

// CommonJS
var Plotly = require('plotly.js-dist-min')
```

### Configuration webpack: webpack.config.js

<https://github.com/plotly/plotly-webpack/blob/master/webpack.config.js>

<https://www.axopen.com/blog/2021/10/webpack-projet-front-end-tuto/>

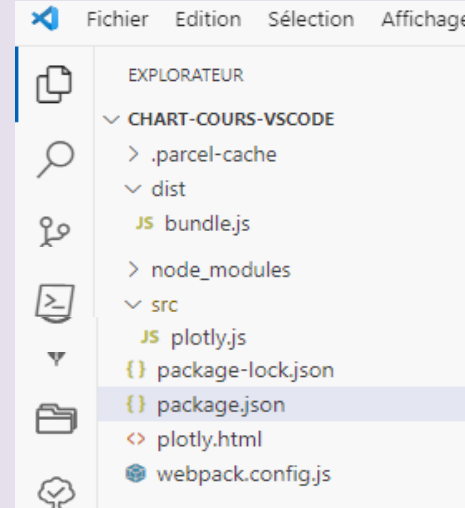
```
const webpack = require("webpack");
const path = require("path");
module.exports = {
  mode: "development",
  entry: "./src/plotly.js",
  output: {
    path: path.resolve(__dirname, "dist"),
    filename: "bundle.js",
  },
  module: {
    rules: [
      {
        test: /\.js$/,
        use: ["if-loader"],
      },
    ],
  },
};
```

```
//plotly.html
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Document</title>
    <script src="./dist/bundle.js" defer></script>
  </head>
  <body>
    <h1>Plotly</h1>
    <div id="tester" style="width: 600px; height: 250px"></div>
  </body>
</html>
```

```
// src/plotly.js
import Plotly from "plotly.js-dist-min";
let graphDiv = document.getElementById("tester");
let data = [
  {
    x: [1999, 2000, 2001, 2002],
    y: [10, 15, 13, 17],
    type: "scatter",
  },
];
let layout = {
  title: "Sales Growth",
  xaxis: {
    title: "Year",
    showgrid: false,
    zeroline: false,
  },
  yaxis: {
    title: "Percent",
    showline: false,
  },
};
Plotly.newPlot(graphDiv, data, layout);
let dataRetrievedLater = graphDiv.data;
let layoutRetrievedLater = graphDiv.layout;
```

? suite

```
// package.json
{
  "name": "chart-cours-vscode",
  "version": "1.0.0",
  "description": "",
  "scripts": {
    "watch": "webpack --watch"
  },
  "author": "",
  "license": "ISC",
  "dependencies": {
    "ify-loader": "^1.1.0",
    "plotly.js-dist-min": "^2.28.0"
  },
  "devDependencies": {
    "webpack": "^5.90.0",
    "webpack-cli": "^5.1.4"
  }
}
```



## Lancer webpack dans le terminal

\$ npm run watch

```
PS G:\Study\dossier cours\résumés\front-End\2-3-javascript\chart-cours-vscode> npm run watch

> chart-cours-vscode@1.0.0 watch
> webpack --watch

asset bundle.js 3.52 MiB [emitted] (name: main)
runtime modules 937 bytes 4 modules
cacheable modules 3.44 MiB
  ./src/plotly.js 756 bytes [built] [code generated]
  ./node_modules/plotly.js-dist-min/plotly.min.js 3.44 MiB [built] [code generated]
webpack 5.90.0 compiled successfully in 2465 ms
asset bundle.js 3.52 MiB [emitted] (name: main)
```

## Plotly

