

# Introduction to Webpack



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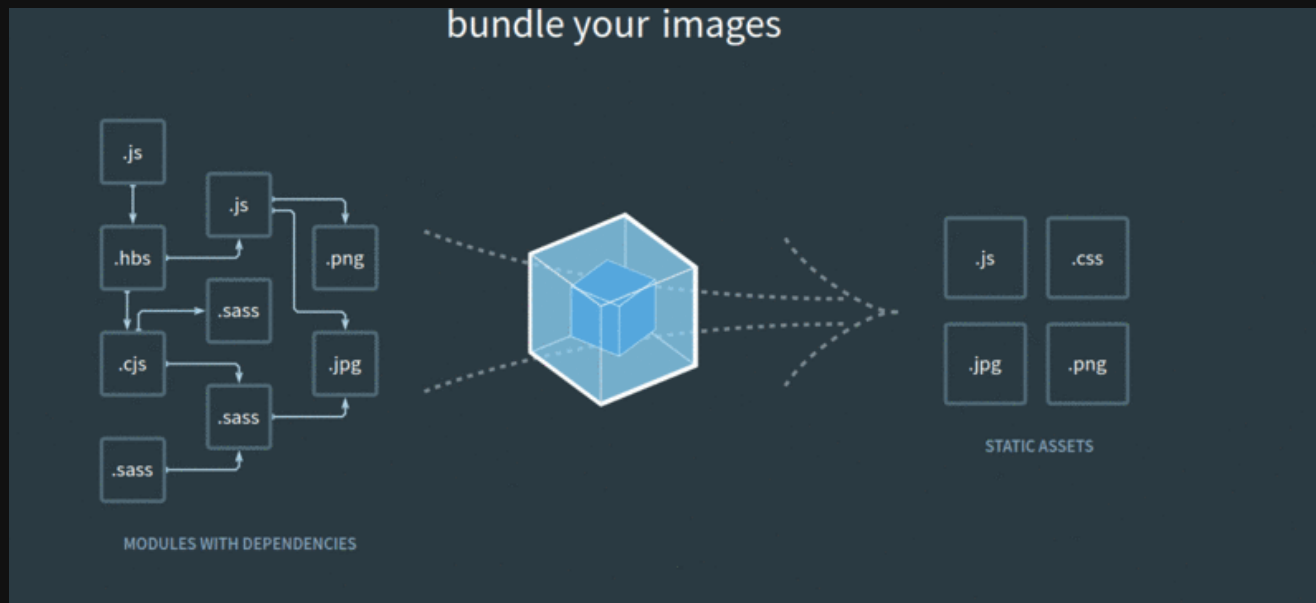
27.11.2020

# Outline

1. What is Webpack ?
2. Why Webpack ?
3. Core concepts of Webpack
4. Demo

# What is Webpack ?

Webpack is a static module bundler for modern Javascript applications [1]



# Why Webpack ?

Traditionally importing JS, not scalable

```
<script src="./file1.js"></script>  
<script src="./file2.js"></script>  
<script src="./file3.js"></script>  
...
```

# ECMAScript Modules (ESM)

```
<script src="./index.js"></script>
```

## index.js

```
1 import name from "./file1.js";  
2  
3 const root = document.getElementById("root");  
4 root.innerHTML = `My name is ${name}`;
```

## file1.js

```
1 const name = "Victor";  
2  
3 export default name;
```



- Browser support for ESM isn't complete
- Webpack supports ESM, CommonJS, AMD modules
- Webpack allows for code optimization
- Webpack supports code splitting, enabling code to be loaded on-demand or in parallel
- Webpack allows bundling static assets: images, stylesheet, etc...

# Core Concepts of Webpack

- Entry
- Output
- Loaders
- Plugins
- Mode

More on these in the demo



# Demo

- MNIST deployment using webpack