

TS Bootcamp 2023

Webpack

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Introduction

- What is webpack?
- Core concepts
- Configuring
- Workshop

Core concepts

[Documentation](#)

- Entry
- Output
- Loaders
- Plugin
- Mode

Entry point(s)

[Documentation](#)

- Define a module for webpack to begin with.
- Generate dependency graph.
- Figure out entry point's dependencies.
- By default “./src/index.js”

```
const config = {  
  entry: './path_to_entry/point.js'  
}
```

Output

[Documentation](#)

- Defines where to emit bundle files.
- Could use [substitutions](#).

```
const config = {  
  output: {  
    path: path.resolve(__dirname,  
      'dist'),  
    filename: 'bundle.js',  
  },  
}
```

Loaders

[Documentation](#)

- Webpack understands only javascript and JSON
- Loaders - mechanism to process any other file types
- Minimal config - 2 props

```
const config = {  
  module: {  
    rules: [{  
      test: /\.?(png|jpe?g|gif)$/i,  
      use: "file-loader"  
    }]  
  }  
}
```

Plugins

[Documentation](#)

- Bundle optimisation
- Asset management
- Env variables injection

```
const HtmlWebpackPlugin = require("html-webpack-plugin");

const config = {
  plugins: [
    new HtmlWebpackPlugin({template: "./src/index.html"})
  ],
}
```

Alternatives & Links

- [ESBuild](#)
- [Rollup.js](#)
- [Parcel](#)