

# Webpack: Transpiling and Bundling JavaScript

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WHAT IS WEBPACK?



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# Webpack Benefits




**Interactive coding** - instead of write code, compile, wait, reload  
Hot Module Reload (HMR)



**Seamless compilation** of anything - code, styles, layout, images, fonts, etc.



**Consistent tooling** - not tied to a particular IDE and/or OS



**Modularity** - write code with benefits of small modules, ship code in bundles



# Webpack Benefits

**Sophisticated bundling** – bundle per page, bundle/code splitting, minify, lazy loading bundles, remove unused code

npm install lodash  
import \_ from 'lodash'

**Module format interop** – CJS (node), ESM (harmony), AMD (RequireJS), UMD, globals

**Module loader / resolution** – your responsibility is to specify relationships between modules, not paths & script ordering



# Webpack Benefits



**Caching** – that can be tailored to development and production separately



**Dev isn't prod** – you can easily customize builds per environment



**Source Map** support – through all of your transformations



**Platform for transformation** – loaders – through babel, but also webpack - codegen, codemod, inject features like offline support, etc.



# Webpack Benefits



**AOT everything** – what's best for your application

**Incremental builds** – even without interactive coding you can benefit from only compiling changed modules

**Compiler platform** – extensible via Plugins and Loaders

**Use future technology today** – i.e. WASM



# Webpack Benefits



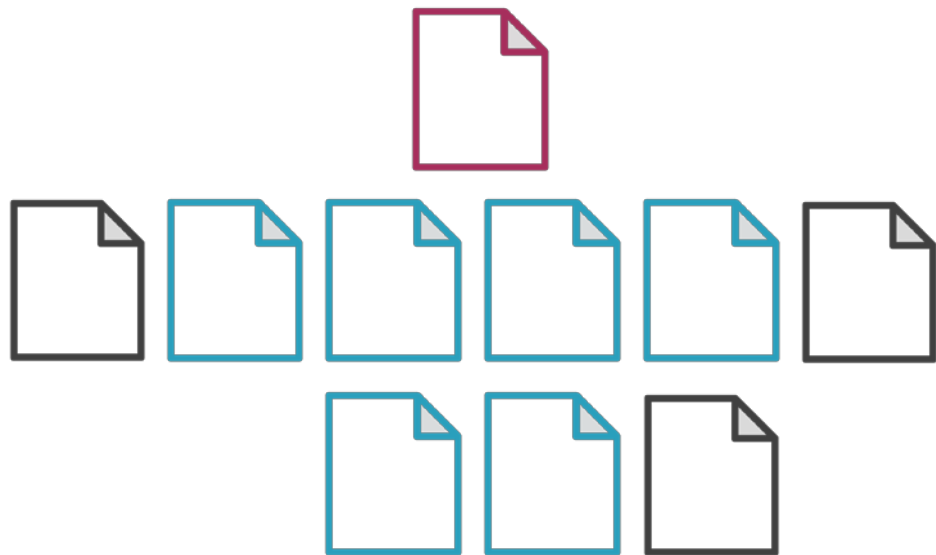
**Widely used** – in part because it is extensible (loaders & plugins)

**NWWTDTRT** – no wrong way to do the right thing





Server



Browser

