What is Webpack?

- *webpack* is a *module bundler* for modern JavaScript applications

— From webpack.js.org

- It recursively builds a *dependency graph* that includes every module your application needs, then packages all of those modules into a small number of *bundles.*

Webpack

- Bundle: a JavaScript file that incorporates assets:
  - that belong together
  - should be served to the client in a response to a single file request
  - May include JavaScript, CSS styles, HTML and any other kind of file
- Webpack examines your application source code for import statements
  - Builds a dependency graph
  - Emits one or more bundles
  - Use plugins to preprocess and minify non-JavaScript files: TypeScript, SASS, LESS etc.
- Configuration in webpack.config.js

Webpack Concepts

- Entry: the point where webpack should start and follow the graph of dependencies

- Output: where to bundle your application

- Loaders: Webpack only understand JavaScript. Webpack treats every file as a module. Loaders transform files into modules as they are added to the dependency graph

- Plugins: perform actions and custom functionality on compilations or chunks of your bundled modules and more