TypeScript

ES6 and forth - 1

Direct Entry Program

Installation & Usage

- npm install -g typescript
- tsc <file.ts>
- tsc <file.ts> --outFile <file.js>
- tsc --init
- tsc
    - target
    - module
    - allowJs
    - sourceMap
    - outDir
    - rootDir

Webpack Integration with TypeScript

- Install typescript and ts-loader
- Configure tsconfig.json
- Configure webpack.config.js
  - rules
  - resolve.extensions
  - devtool
- Install @types/html-webpack-plugin

Data Types in ES6 and forth

- Boolean (boolean - true, false)
- Number (number)
- String (string)
- Null (null)
- Undefined (undefined)
- Symbol (symbol)
- BigInt (bigint - n) - ES2020
- Function (function)
- Object (object)

Direct Entry Program

Data Types in TypeScript

- All ECMAScript Types
- Unknown (unknown)
- Void (void)
- Any (any)
- Never (never)
- Array
- Tuple
- Enum, Class, Interface
- !Function (function)