TypeScript

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"TypeScript is JavaScript with syntax for types."

- TypeScript is a strongly typed programming language that builds on JavaScript
- TypeScript is a superset of JavaScript
- TypeScript compiles to JavaScript
- Strong integration/support with IDEs
- Avoids interpretation at runtime

Setup

- Prerequisite
  - Have NodeJS and npm installed
- Via npm
  - npm install -g typescript
- Create file
  - filename.ts
- Compile to JavaScript
  - tsc filename.ts
- Execute JavaScript
  - node filename.js

Power of TypeScript

```js
// JS index.js  index.js

someObject.whatever();
👆          🖕
```

```ts
// TS index.ts  index.ts\...

someObject.whatever();
any

Cannot find name 'someObject'. ts(2304)
```
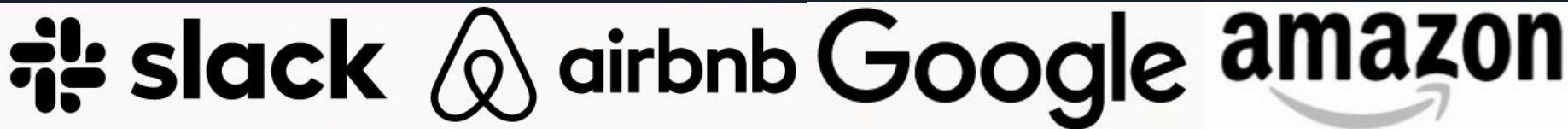
Cons

- Target JavaScript is less readable (Treat like binary)
- Performance
- Compilation time
- Slower to write

Industry Support

slack airbnb Google amazon

Open Source with TypeScript

Angular

Vue

Jest

Redux

Ionic

Probot

Deno

Vercel

Yarn

GitHub
Desktop

Questions?

Sources

- https://www.typescriptlang.org/
- https://insights.stackoverflow.com/
- https://stateofjs.com/en-us/
- https://www.zdnet.com/article/who-built-microsoft-typescript-and-why/
- https://www.cleverism.com/skills-and-tools/typescript/#:~:text=TypeScript%20is%20a%20relatively%20new,working%20on%20the%20project%20too.