Babel JavaScript compiler CLI

CONCEPTS

Install @babel/cli and @babel/core in the project. Without them npx may fetch an ancient Babel 6 'babel'.

Source modern JS, JSX, TS
↓ parse
Plugins transform syntax
↓ grouped by
Presets env, react, typescript
↓ generate
Output plus source map

INPUT AND OUTPUT

`babel <file>`
Compile one file to stdout

`babel <file> -o <out>`
Compile one file into a file

`babel <dir> -d <outdir>`
Compile a directory tree

`babel <a> <b> -d <outdir>`
Compile several files or dirs

`babel <dir> -d <outdir> -D`
Copy non-compilable files

SELECTING FILES

`babel <dir> -d <outdir> -x .ts,.tsx,.js`
Compile these extensions

`babel <dir> -d <outdir> --ignore "<glob>"`
Skip files matching a glob

`babel <dir> -d <outdir> --ignore "<dir>/**/*.test.js"`
Skip test files

PRESETS AND PLUGINS

`babel <file> --presets @babel/preset-env`
Use a preset

`babel <file> --presets env,react`
Several presets, comma-separated

PRESETS AND PLUGINS (cont.)

`babel <file> --plugins <plugin>`
Use a plugin

`babel <file> --presets @babel/preset-typescript -x .ts`
Strip TypeScript types

`babel <file> --presets @babel/preset-react`
Compile JSX

CONFIG FILES

`babel <file> --config-file <path>`
Use a specific config file

babel.config.json

```
{
  "presets": [
    ["@babel/preset-env", { "targets": "defaults" }]
  ]
}
```

WATCH AND OUTPUT CONTROL

`babel <dir> -d <outdir> -w`
Recompile on change

SOURCE MAPS

`babel <dir> -d <outdir> -s`
Write .map files

`babel <dir> -d <outdir> -s inline`
Embed the map in the output

PACKAGE SCRIPTS

package.json scripts

```
"scripts": {
  "build": "babel src -d lib -s",
  "dev": "babel src -d lib -w"
}
```

`npx babel --version`
Show CLI and core versions

`npx babel --help`
List all options