

Esprima (esprima.org, BSD license) is a high performance, standard-compliant [ECMAScript](#) parser written in ECMAScript (also popularly known as [JavaScript](#)). Esprima is created and maintained by [Ariya Hidayat](#), with the help of [many contributors](#).

Features

- Full support for ECMAScript 2017 ([ECMA-262 8th Edition](#))
- Sensible [syntax tree format](#) as standardized by [ESTree project](#)
- Experimental support for [JSX](#), a syntax extension for [React](#)
- Optional tracking of syntax node location (index-based and line-column)
- [Heavily tested](#) (~1500 [unit tests](#) with [full code coverage](#))

API

Esprima can be used to perform [lexical analysis](#) (tokenization) or [syntactic analysis](#) (parsing) of a JavaScript program.

A simple example on Node.js REPL:

```

    { type: 'Identifier', value: 'answer' },
    { type: 'Punctuator', value: '=' },
    { type: 'Numeric', value: '42' } ],
{ type: 'Program',
  > esprima.parseScript(program);
}

body:
[ { type: 'VariableDeclaration',
  declarations: [Object],
  kind: 'const' } ],
sourceType: 'script' }
}

```

For more information, please read the [complete documentation](#).