Example

Below is a class with four class properties which will be transformed.

console.log(Bork.staticFunction()); // > "babelIsCool"

@babel/plugin-proposal-class-properties

```
E Copy
JavaScript
  class Bork {
    //Property initializer syntax
    instanceProperty = "bork";
    boundFunction = () => {
      return this.instanceProperty;
    };
    //Static class properties
    static staticProperty = "babelIsCool";
    static staticFunction = function() {
      return Bork.staticProperty;
  let myBork = new Bork;
  //Property initializers are not on the prototype.
  console.log(myBork.__proto__.boundFunction); // > undefined
  //Bound functions are bound to the class instance.
  console.log(myBork.boundFunction.call(undefined)); // > "bork"
  //Static function exists on the class.
```

Example Installation Usage Via .babelrc (Recommended) Via CLI Via Node API Options loose References

EDIT

Installation

```
Shell

npm install --save-dev @babel/plugin-proposal-class-properties
```

Usage

Via .babelrc (Recommended)

.babelrc

Without options:

```
{
    "plugins": ["@babel/plugin-proposal-class-properties"]
}
```

With options:

Via CLI

```
Shell
babel --plugins @babel/plugin-proposal-class-properties script.js
```

Via Node API

```
JavaScript

require("@babel/core").transform("code", {
  plugins: ["@babel/plugin-proposal-class-properties"]
});
```

Options

loose

boolean , defaults to false .

When true, class properties are compiled to use an assignment expression instead of Object.defineProperty.

For an explanation of the consequences of using either, see Definition vs. Assignment (TL;DR in Part 5)

Example

```
class Bork {
    static a = 'foo';
    static b;

    x = 'bar';
    y;
}
```

Without { "loose": true } , the above code will compile to the following, using Object.defineProperty:

```
JavaScript
                                                                                                                                      E Copy
var Bork = function Bork() {
  babelHelpers.classCallCheck(this, Bork);
  Object.defineProperty(this, "x", {
    configurable: true,
    enumerable: true,
    writable: true,
    value: 'bar'
  });
  Object.defineProperty(this, "y", {
    configurable: true,
    enumerable: true,
    writable: true,
    value: void 0
  });
};
Object.defineProperty(Bork, "a", {
  configurable: true,
  enumerable: true,
  writable: true,
  value: 'foo'
});
Object.defineProperty(Bork, "b", {
  configurable: true,
  enumerable: true,
  writable: true,
  value: void 0
});
```

However, with { "loose": true }, it will compile using assignment expressions:

```
Var Bork = function Bork() {
    babelHelpers.classCallCheck(this, Bork);
    this.x = 'bar';
    this.y = void 0;
};

Bork.a = 'foo';
Bork.b = void 0;

You can read more about configuring plugin options here
```

References

- Proposal: Public and private instance fields
 Proposal: Static class features
- rioposan static class reactives

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