Меняем JavaScript
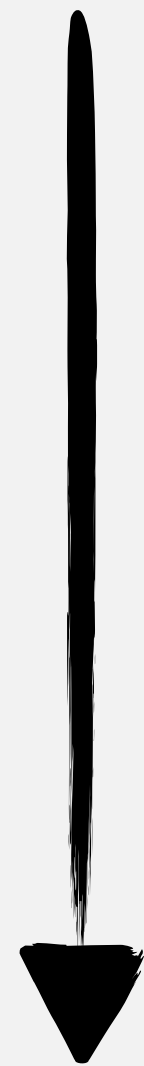
с помощью JavaScript

Павел Волокитин

```
const React = require('react');
```

```
/const (\w+) = require\('([^']+')\);/
    → import $1 from '$2';
```

```
import React from 'react';
```

```
forEach(arr, function(item) {
  console.log(item);
});
```

```
for (const item of arr) {
  console.log(item);
}
```

AMD

```
define(['react'], function(React) {
  return {...};
});
```
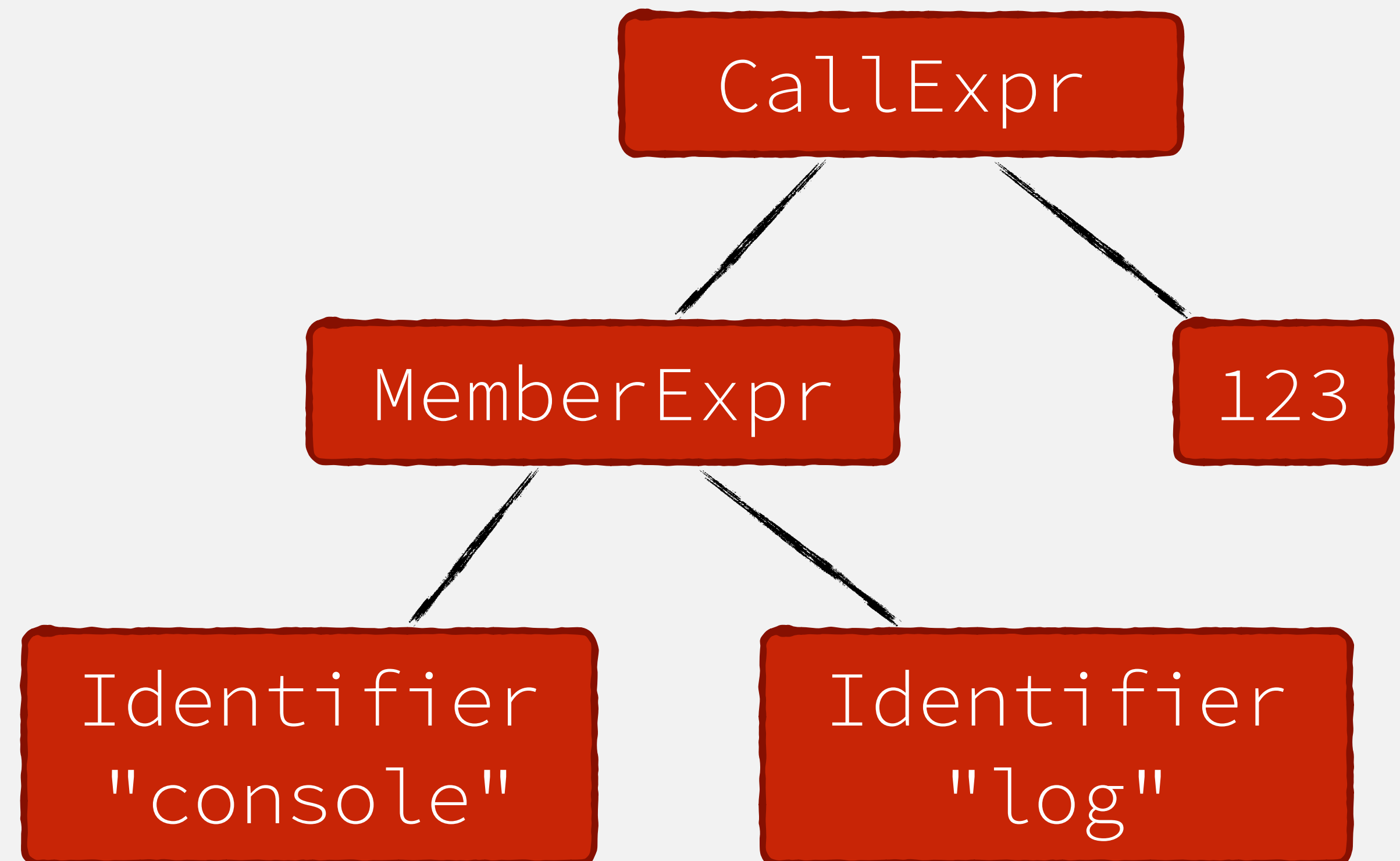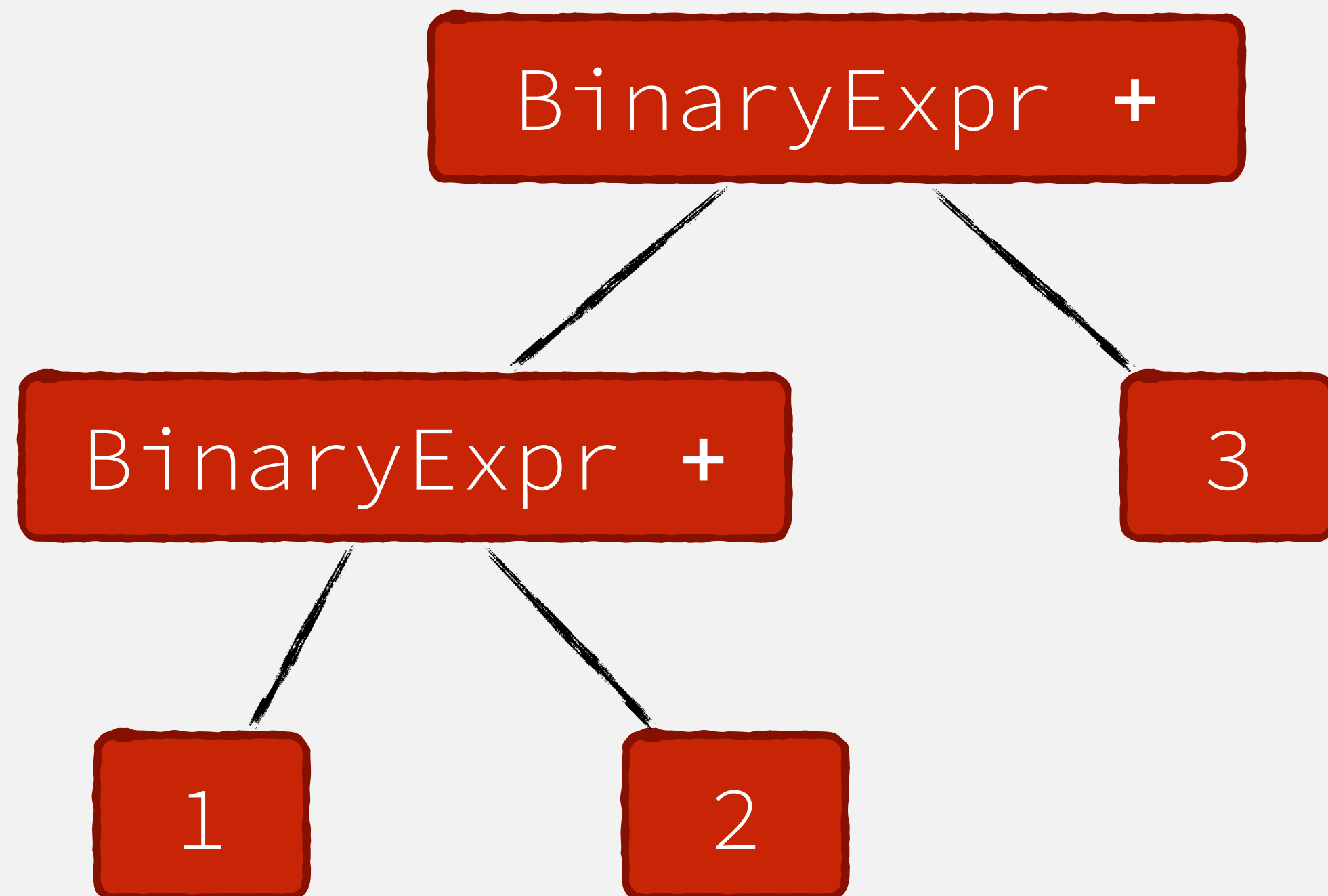
CommonJS

```
const React = require('react');

module.exports = {...};
```

Abstract Syntax Tree

`1 + 2 + 3`

`console.log(123)`

astexplorer.net

jscodeshift

Demo: astexplorer

- Parse
- Find
- Replace
- Print

react-codemod

```
const Comp = React.createClass({

  getDefaultProps() {
    return {size: 10};
  },

  getInitialState() {
    return {focused: false};
  },

  render() {...},
});
```

```
class Comp extends React.Component {

  static defaultProps = {size: 10};

  state = {focused: false};

  render() {...}
}
```

Demo: React class
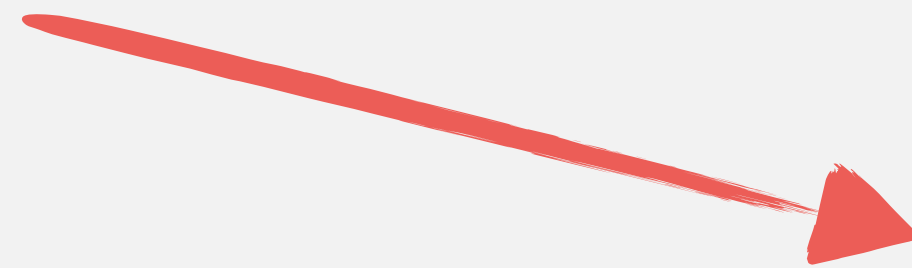
- Parse

- Find

- Replace

- Print

Demo: nuclide outline
Demo: react-docgen
Demo: modules

Трудности

–Parse

–Find

–Replace

recast

–Print

```
function f(a, b) {
  ...
}
```

```
function fn(
    argumentOne,
    argumentTwo,
) {
    ...
}
```

```
obj = {
  one: 1,
  two: 2,
};
```

```
obj = {

  func() {},

  value: null,
};
```

- recast/lib/printer.js
- Временные ноды

```
const React = require('react');
$$newline;
obj = {
  $$newline,
  one: 1,
  $$newline,
  two: 2,
};
```

Спасибо