



Collaboration

How does one contribute effectively?

Code Quality

- Code reviews
- Collaboration guidelines

Code Security

- Code history / code blaming
- Open source third party software

Learning from others

- See differences in code from one-day to the next
- Gain perspective on the workings of a code base by looking through history



A solution to collaboration and codebase management

```

120 +         return this.reserved[id] < 4;
121 +     }, this).map(function(id) {
122 +         return b.variableDeclarator(
123 +             b.identifier(this.identifiers[id]),
124 +             b.identifier(id)
125 +         );
126 +     }, this)
127 + ));
128 +});

```

```

103 129
104 -module.exports = function weird(code, options) {
130 +Weird.prototype.processCode = function(code) {
105 131     code += ''; // coerce to string
106 -     if (!options) options = {};
107 -     opts = options;
108 132     var shebang, sbr = /^#\![^\n]+/g;
109 133     if (shebang = code.match(sbr)) code = code.replace(sbr, '');
110 -     speciallists(options.globals, 3); // user-provided globals
111 -     speciallists(options.unreserved, 0); // user-provided unreserved
112 -     speciallists(options.reserved, 4); // user-provided reserved
113 -     var ast = recast.parse(code, options);
114 -     ast.program.body.forEach(weirdAST);
115 -     var result = recast.print(ast, options);
134 +     var ast = recast.parse(code, this.options);
135 +     ast.program.body.forEach(this.processAST, this);
136 +     if (this.options.aliasGlobals) this.aliasGlobals(ast);
137 +     var result = recast.print(ast, this.options);
116 138     if (shebang) result.code = shebang[0] + result.code;
117 139     return result;
118 140 };
141 +
142 +module.exports = function(code, options) {
143 +    return (new Weird(options)).processCode(code);
144 +};
145 +
146 +module.exports.Processor = Weird;

```

Git in the industry

Google

facebook

Microsoft

twitter

LinkedIn

NETFLIX



PostgreSQL



ANDROID



Case Study: Droppy

- [Demonstration of planning and to-do lists \(issues\)](#)
- [Demonstration of referencing previous issues](#)
- Demonstration of historical changes (branch: drop-areas)
 - [Reference images](#) (issue 85)
 - [See commits, and comments](#) (Code history)

```
git clone https://github.com/silverwind/droppy ./droppy
cd droppy
npm install
```

```
git checkout drop-areas
npm install
```

Resources

- Learn
 - [Documentation and getting started resources](#)
 - [Try Git in browser](#)
- Cool repositories
 - [google/deepdream](#) IPython Notebook combining images by movement, a study of neural networks, [blog post](#)
 - [golang/go](#) A new compiled language developed for productivity and asynchronous programming
 - [codemirror/CodeMirror](#) An in-browser code editor
 - [/explore](#) Explore up and coming developing software trending on Github

Announcements

- The Open Source Project Milestones Program
 - Tell us what you want to work on, and we can fund your development efforts
- The Open Source Volunteering Program
 - Contribute to a Github repository with over 50 Stars to receive volunteer hours applicable to University Scholarships

