

# Source Maps

...what the heck are they?

- Easier debugging of minified code.
- Can be used with both JS and CSS.
- Support from both **Chrome** and **Firefox**.
- Initial setup, then almost no maintenance.

# 1. Comment appended to minified file.

```
//# sourceMappingURL=/path/script.js.map
```

# 2. HTTP Header

```
SourceMap: /path/script.js.map
```

```
{  
  version: version of source map spec (3)  
  file: name of optimized file  
  sources: array of original source files  
  sourceRoot: path to files in sources  
  names: symbols used for mapping  
  mappings: Base64 VLQ's ...magic  
}
```

## Generators

- Closure Compiler, Uglify, JSMIn, Browserify

## Consumers

- Chrome / Firefox DevTools, WebStorm (IDE)

## Libraries

- jQuery 1.9+, Backbone *+ more*

# Enable Source Maps

Chrome

Firefox

it's totally pronounced "gif", not "gif"

## Important

- No source maps for inline JavaScript.
- Watch expressions aren't supported (yet).

## Generator Responsibilities

- XSSI evaded with forced `) ] }` syntax error.
- `// #` preferred to `// @`

- When are source maps loaded?
- Are source maps cacheable?
- Can they be served over HTTPS?
- Can we gzip compress them?



## Resources

HTML5Rocks, Source Maps & SASS, Tuts+,  
Chrome Dev Blog, Revision 3 Proposal

## Tools

mozilla/source-map, SourceMap Validator

## Basically Everything

ryanseddon/source-map