

@jridgewell/source-map

Packages @jridgewell/trace-mapping and @jridgewell/gen-mapping into the familiar source-map API

This isn't the full API, but it's the core functionality. This wraps [@jridgewell/trace-mapping](#) and [@jridgewell/gen-mapping](#) implementations.

Installation

```
npm install @jridgewell/source-map
```

Usage

TODO

SourceMapConsumer

```
import { SourceMapConsumer } from
  '@jridgewell/source-map';
const smc = new SourceMapConsumer({
  version: 3,
  names: ['foo'],
  sources: ['input.js'],
  mappings: 'AAAAA',
});
```

SourceMapConsumer.fromSourceMap(mapGenerator, mapUrl)

Transforms a SourceMapGenerator into a SourceMapConsumer.

```
const smg = new SourceMapGenerator();
```

```
const smc =
  SourceMapConsumer.fromSourceMap(map);
smc.originalPositionFor({ line: 1,
  column: 0 });
```

SourceMapConsumer.prototype.originalPositionFor(generatedPosition)

```
const smc = new SourceMapConsumer(map);
smc.originalPositionFor({ line: 1,
  column: 0 });
```

SourceMapGenerator.prototype.toJSON()

```
const smg = new SourceMapGenerator();
smg.toJSON(); // { version: 3, names:
               [], sources: [], mappings: '' }
```

SourceMapGenerator.prototype.toString()

```
const smg = new SourceMapGenerator();
smg.toJSON(); // "{version:3,names:
               [],sources:[],mappings:''}"
```

SourceMapGenerator.prototype.toDecodedMap()

```
const smg = new SourceMapGenerator();
smg.toDecodedMap(); // { version: 3,
                       names: [], sources: [],
                       mappings: [] }
```

Known differences with other implementations

This implementation has some differences with `source-map` and `source-map-js`.

- `SourceMapConsumer.prototype.eachMapping()`
 - Does not support the `order` argument
- `SourceMapGenerator.prototype.applySourceMap()`
 - Not implemented

SourceMapConsumer.prototype.mappings

```
const smc = new SourceMapConsumer(map);
smc.mappings; // AAAA
```

SourceMapConsumer.prototype.allGeneratedPositionsFor(original

```
const smc = new SourceMapConsumer(map);
smc.allGeneratedPositionsfor({ line: 1,
                              column: 5, source: "baz.ts" });
// [
//   { line: 2, column: 8 }
// ]
```

SourceMapConsumer.prototype.eachMapping(callback[, context[, order]])

This implementation currently does not support the “order” parameter. This function can only iterate in Generated order.

```
const smc = new SourceMapConsumer(map);
smc.eachMapping((mapping) => {
  // { source: 'baz.ts',
  //   generatedLine: 4,
  //   generatedColumn: 5,
  //   originalLine: 4,
  //   originalColumn: 5,
  //   name: null }
});
```

SourceMapConsumer.prototype.generatedPositionFor(originalPosition)

```
const smc = new SourceMapConsumer(map);
smc.generatedPositionFor({ line: 1,
  column: 5, source: "baz.ts" });
// { line: 2, column: 8 }
```

SourceMapConsumer.prototype.hasContentsOfAllSources()

```
const smc = new SourceMapConsumer(map);
smc.hasContentsOfAllSources();
// true
```

SourceMapConsumer.prototype.sourceContentFor(source[, returnNullOnMissing])

```
const smc = new SourceMapConsumer(map);
smc.generatedPositionFor("baz.ts");
// "export default ..."
```

SourceMapConsumer.prototype.version

Returns the source map's version

SourceMapGenerator

```
import { SourceMapGenerator } from
  '@jridgeway/source-map';
const smg = new SourceMapGenerator({
  file: 'output.js',
  sourceRoot: 'https://example.com/',
});
```

SourceMapGenerator.fromSourceMap(map)

Transform a SourceMapConsumer into a SourceMapGenerator.

```
const smc = new SourceMapConsumer();
const smg = SourceMapGenerator.fromSourceMap(smc);
```

SourceMapGenerator.prototype.applySourceMap(sourceFile[, sourceMapPath])

This method is not implemented yet

SourceMapGenerator.prototype.addMapping(mapping)

```
const smg = new SourceMapGenerator();
smg.addMapping({
  generated: { line: 1, column: 0 },
  source: 'input.js',
  original: { line: 1, column: 0 },
  name: 'foo',
});
```

SourceMapGenerator.prototype.setSourceContent(sourceFile, sourceContent)

```
const smg = new SourceMapGenerator();
smg.setSourceContent('input.js',
  'foobar');
```