

前端构建工具与平台集成

徐健

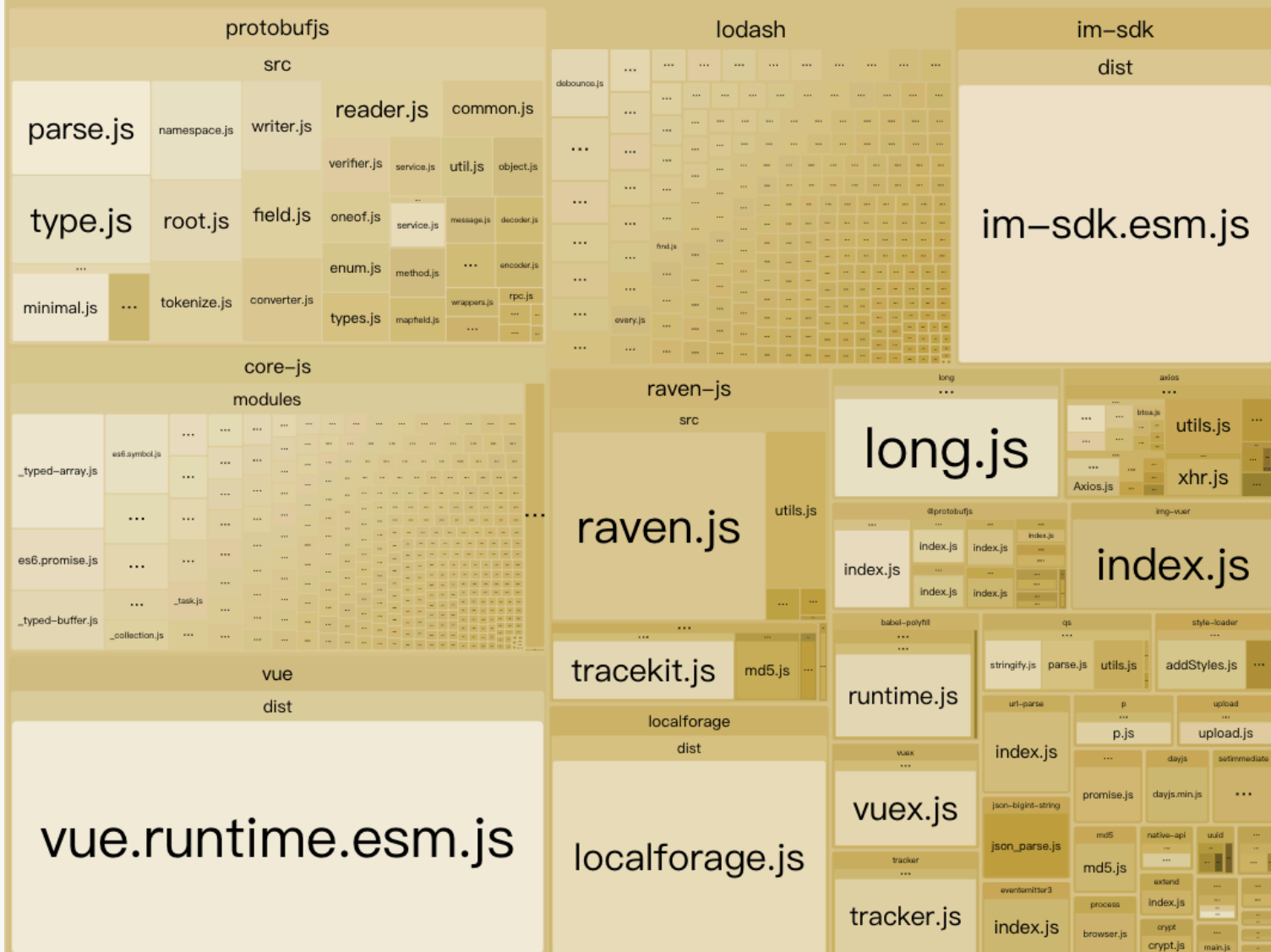
瓜子二手车 前端工程师



Webpack

vendor.73e622304acbd3b70fec.js

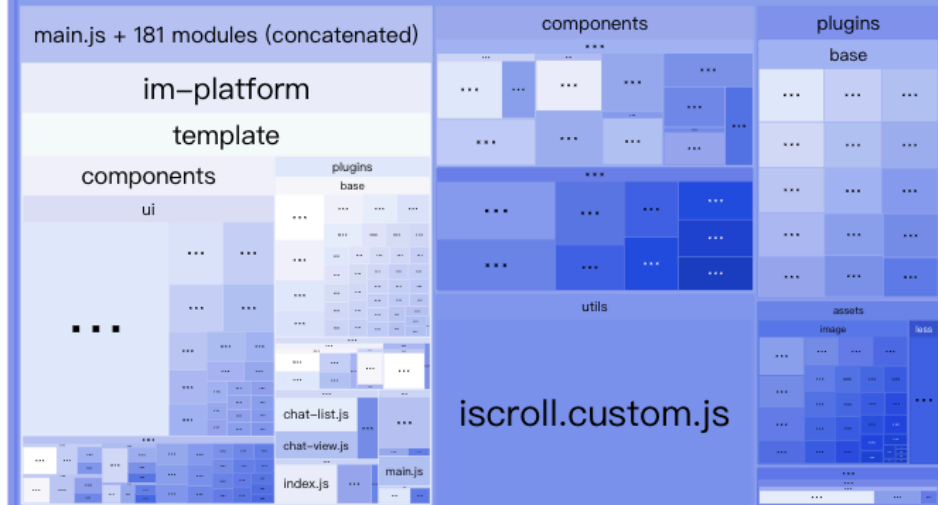
node_modules



main.e5edd3c10b64043937cf.js

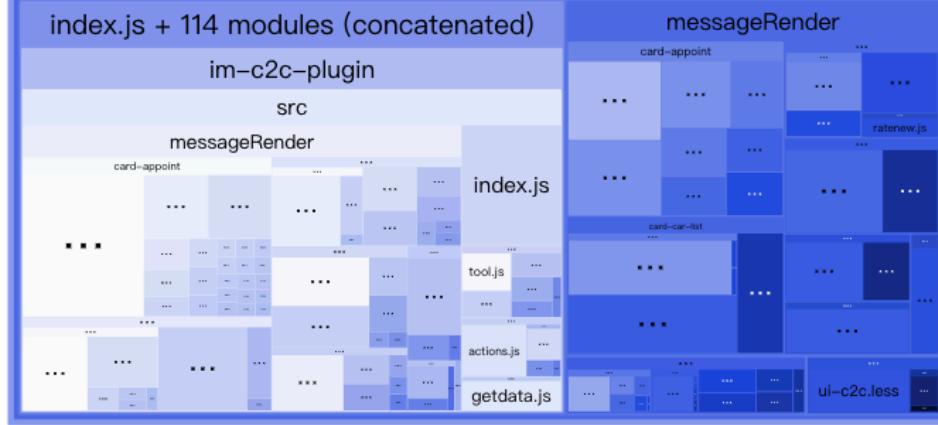
im-platform

template



im-c2c-plugin

src





瓜子前端背景



问题

- ▲ 低级错误
- ▲ 规范混乱
- ▲ 强依赖项目开发者构建能力



构建工具封装

```
let config = we({
  basePath: resolve(''),
  mode: isDev ? 'development' : 'production',
  entry,
  output: output,
  vue: true,
  less: true,
  chunks: {
    preset: 'vendor',
    count: 1,
    manifestInline: true,
  },
  px2rem: {
    remUnit: 16,
  },
  files: {
    limit: 2048,
  },
  alias: {
    '@': src(''),
  },
  defines: {
    LOCAL: isLocal,
  },
})
```



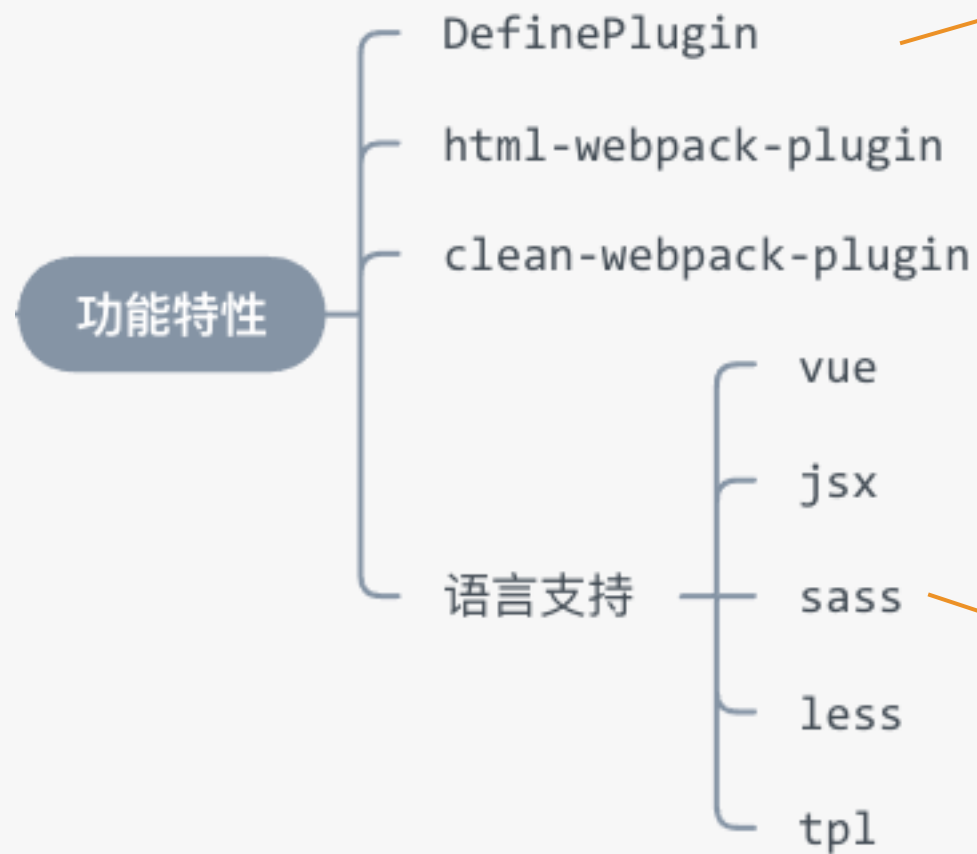
Webpack 轻封装

- ▲ 在瓜子普及度高
- ▲ 成熟，生态完善
- ▲ 封装成本低



功能总览

功能特性支持

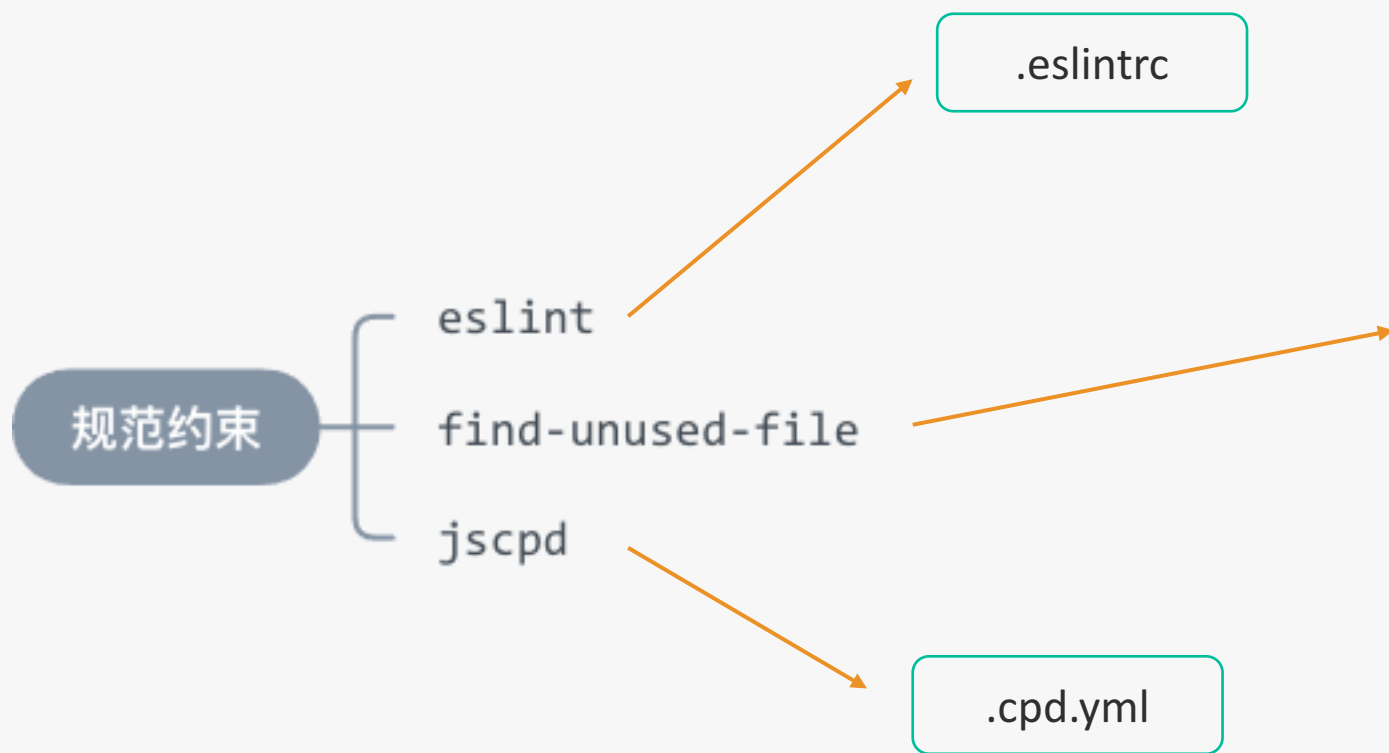


```
defines: {  
  LOCAL: isLocal,  
},
```

```
html: {  
  filename: 'index.html',  
  template: src('index.html'),  
  hash: false,  
},
```

```
vue: true,  
less: true,  
sass: true,  
tpl: true,
```

规范



规范

优化

开发效率优化

babel

.babelrc

postcss

```
cssnext: 'mobile',
px2rem: {
  remUnit: 16,
},
```

imagemin

```
files: {
  limit: 2048,
},
```

base64

chunk split

```
chunks: {
  preset: 'vendor',
  count: 1,
  manifestInline: true,
},
```

extract-css

```
extractCss: true,
```

md5-hash

manifest-inline

analyze

cross-env ANALYZER=1

analyze upload

cross-env ANALYZER_UPLOAD=1

新特性支持

新特性支持

pwa 支持

```
swPrecache: {  
  cacheId: 'my-project',  
},
```



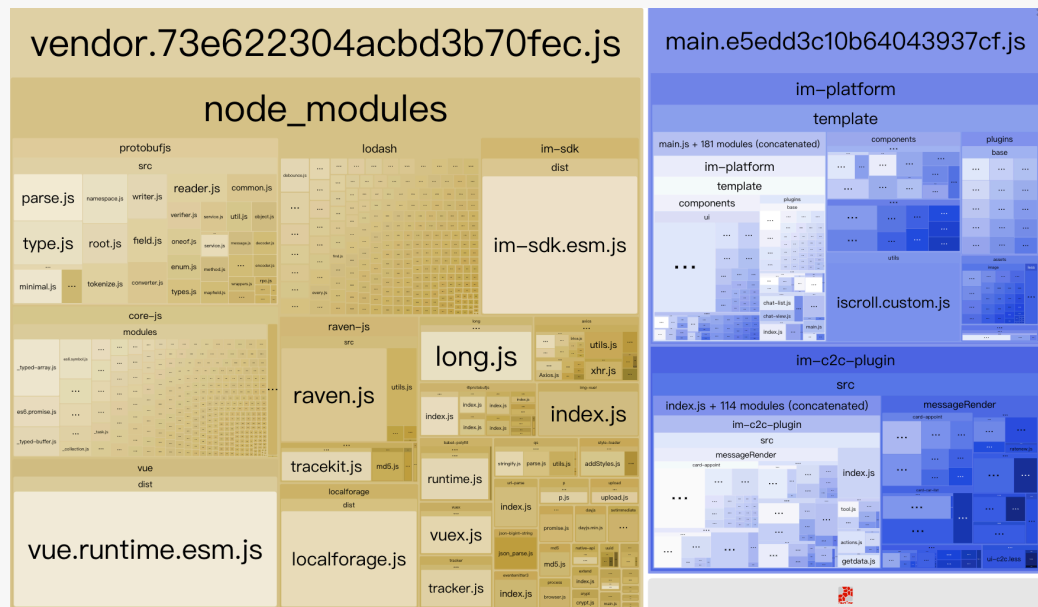
构建平台



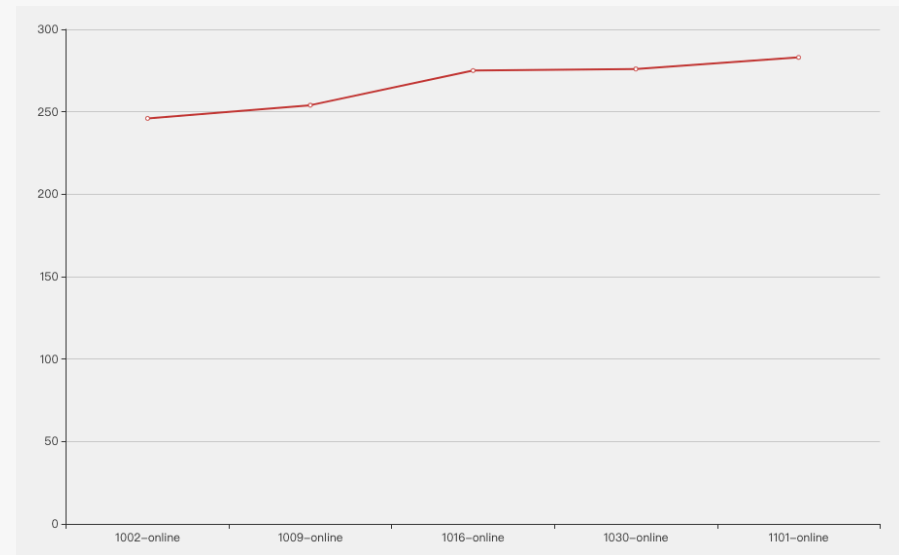
AnalyzerUploadPlugin – 数据上报

- ▲ webpack-bundle-analyzer 获取尺寸分析数据
- ▲ package.json 获取项目依赖
- ▲ Jscpd 获取代码重复度
- ▲ Http 请求上报到平台

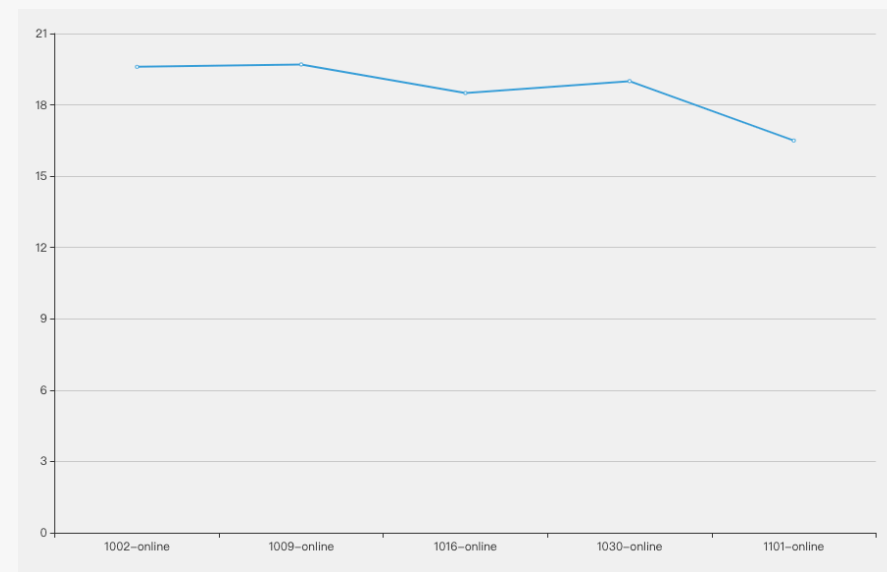
统计分析



代码尺寸分析图

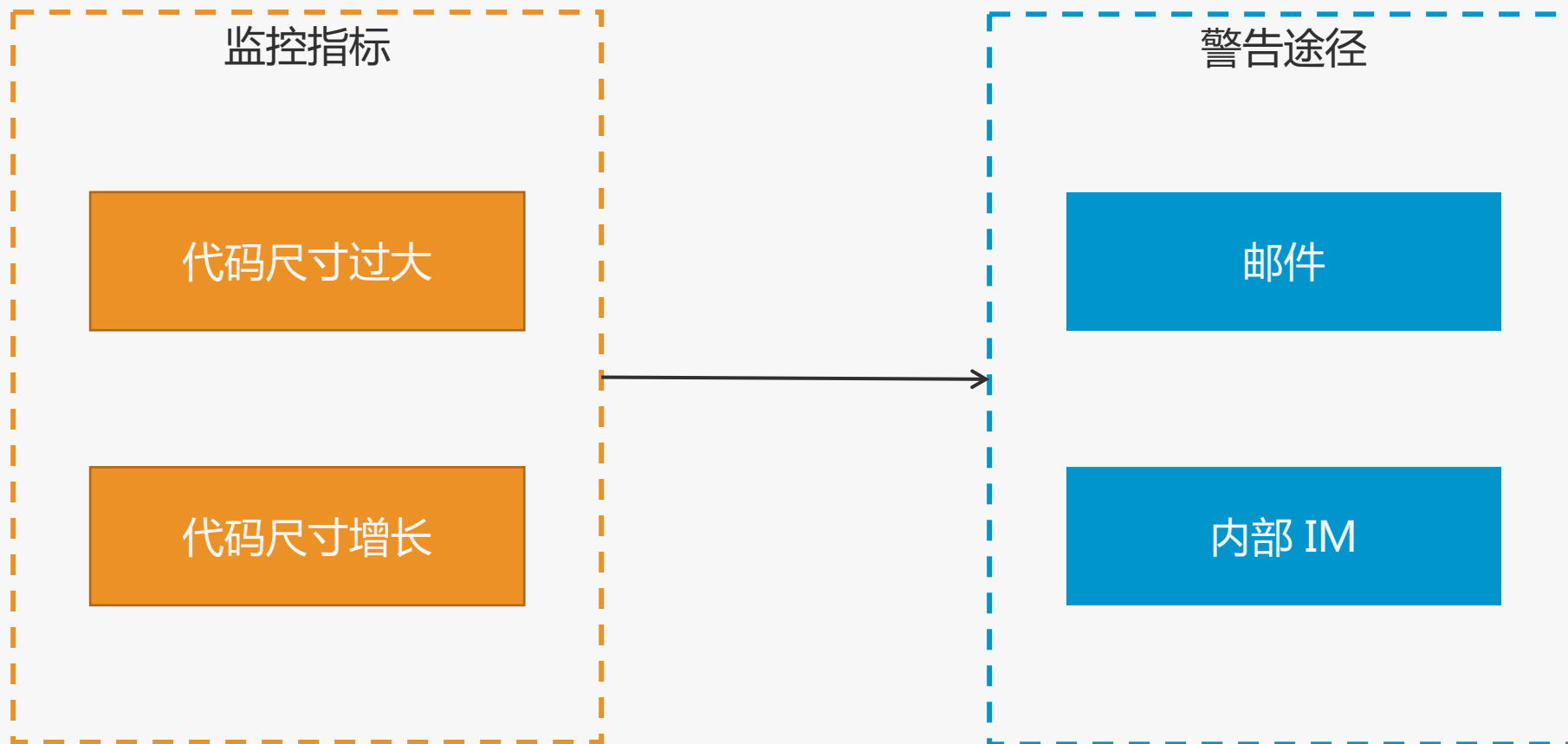


代码尺寸趋势图



代码重复度趋势图

监控和警告





展望

- ▲ 统计前端库使用情况
- ▲ 自动代码尺寸分析和修改建议
- ▲ ...

谢谢
