```
link null
title: 珠峰架构师成长计划
description: rollup.config.is
keywords: null
author: null
date: null
publisher: 珠峰架构师成长计划
stats: paragraph=75 sentences=75, words=676
```

rollup实战

- rollupjs (https://rollupjs.org/quide/en/)是下一代ES模块捆绑器1背景
 webpack打包非常繁琐,打包体积比较大
- rollup主要是用来打包JS库的
- vue/react/angular都在用rollup作为打包工具

2. 安装依赖

cnpm i @babel/core @babel/preset-env @rollup/plugin-commonjs @rollup/plugin-node-resolve @rollup/plugin-typescript lodash rollup rollup-plugin-babel postcss rollup-plugin-postcss rollup-plugin-terser tslib typescript rollup-plugin-serve rollup-plugin-livereload -D

3 初次使用

- Asynchronous Module Definition异步模块定义
- ES6 module是es6提出了新的模块化方案
- IIFE (Immediately Invoked Function Expression)即立即执行函数表达式,所谓立即执行,就是声明一个函数,声明完了立即执行
 UMD全称为 Universal Module Definition,也就是通用模块定义
 cjs是nodejs采用的模块化标准,commonjs使用方法 require来引入模块,这里 require()接收的参数是模块名或者是模块文件的路径

rollup.config.js

```
export default {
   input:'src/main.js',
   output:{
       file:'dist/bundle.cjs.js',
       format: 'cjs',
       name: 'bundleName'
```

src\main.js

```
console.log('hello');
```

package.json

```
"build": "rollup --config"
```

dist\index.html

```
<html lang="en">
<head>
    cmeta http-equiv="X-UA-Compatible" content="IE=edge">
cmeta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>rolluptitle>
 ead>
<body>
     <script src="bundle.cjs.js">script>
 ody>
html>
```

4 支持babel

- 为了使用新的语法,可以使用babel来进行编译输出
- @babel/core是babel的核心包
- @babel/preset-env是预设
- @rollup/plugin-babel是babel插件

cnpm install @rollup/plugin-babel @babel/core @babel/preset-env --save-dev

```
let sum = (a,b) => {
   return a+b;
let result = sum(1,2);
console.log(result);
```

.babelrc

```
"presets": [
    "@babel/env",
       "modules":false
```

rollup.config.js

```
+import babel from '@rollup/plugin-babel';
export default {
     input:'src/main.js',
     output:{
          file:'dist/bundle.cjs.js',//输出文件的路径和名称
format:'cjs',//五种输出格式: amd/es6/iife/umd/cjs
name:'bundleName'//当format为iife和umd时必须提供,将作为全局变量挂在window下
     plugins:[
          exclude:"node_modules/**"
})
```

5 tree-shaking

- Tree-shaking的本质是消除无用的js代码
 rollup只处理函数和顶层的import/export变量

src\main.js

```
import {name,age} from './msg';
console.log(name);
```

```
export var name = 'zhufeng';
export var age = 12;
```

6 使用第三方模块

• rollup.js编译源码中的模块引用默认只支持 ES6+的模块方式 import/export

cnpm install @rollup/plugin-node-resolve @rollup/plugin-commonjs lodash --save-dev

```
import _ from 'lodash';
console.log(_);
```

rollup.config.js

```
import babel from 'rollup-plugin-babel';
+import resolve from '@rollup/plugin-node-resolve';
 +import commonjs from '@rollup/plugin-commonjs';
  xport default {
     input:'src/main.js',
     output:{
          file:'dist/bundle.cjs.js',//输出文件的路径和名称
format:'cjs',//五种输出格式: amd/es6/iife/umd/cjs
name:'bundleName'//当format为iife和umd时必须提供,将作为全局变量挂在window下
     plugins:[
          exclude:"node_modules/**"
}),
           resolve(),
          commonjs()
```

7使用CDN

src\main.js

```
import _ from 'lodash';
import $ from 'jquery';
console.log(_.concat([1,2,3],4,5));
console.log($);
export default 'main';
```

dist\index.html

```
<html lang="en">
<head>
   <meta charset="UTF-8">
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>rolluptitle>
ead>
<body>
```

rollup.config.js

8 使用typescript

cnpm install tslib typescript @rollup/plugin-typescript --save-dev

erelmain te

```
let myName:string = 'zhufeng';
let age:number=12;
console.log(myName,age);
```

rollup.config.js

```
import babel from 'rollup-plugin-babel';
import resolve from '@rollup/plugin-node-resolve';
import commonjs from '@rollup/plugin-commonjs';
+import typescript from '@rollup/plugin-typescript';
export default {
    input:'src/main.ts',
    output:{
          file:'dist/bundle.cjs.js',//输出文件的路径和名称
format:'iife',//五种输出格式: amd/es6/iife/umd/cjs
          name:'bundleName',//当format为iife和umd时必须提供,将作为全局变量挂在window下
          globals:{
               lodash:'_', //告诉rollup全局变量 即是lodash
jquery:'{{content}}#x27; //告诉rollup全局变量$即是jquery
     plugins:[
          babel({
          exclude:"node_modules/**"
}),
          resolve(),
          commonjs(),
          typescript()
     external:['lodash','jquery']
```

tsconfig.json

```
{
  "compilerOptions": {
    "target": "es5",
    "module": "ESNext",
    "strict": true,
    "skipitOtheck": true,
    "forceConsistentCasingInFileNames": true
}
}
```

9压缩JS

• terser是支持ES6 +的JavaScript压缩器工具包

cnpm install rollup-plugin-terser --save-dev

rollup.config.js

```
import babel from 'rollup-plugin-babel';
import resolve from '@rollup/plugin-node-resolve';
import comnonjs from '@rollup/plugin-commonjs';
import typescript from '@rollup/plugin-typescript';
timport (terser) from 'rollup-plugin-terser';
export default {
    input:'src/main.ts',
    output:(
        file:'dist/bundle.cjs.js',//\mathref{mbte}\text{Phte}\text{BetaAd8}\text{
        format:'iife',//la\mathref{mbte}\text{BetaAd8}\text{
        format:'iife',//la\mathref{mbte}\text{BetaAd8}\text{
        format:'iife',//la\mathref{mbte}\text{BetaAd8}\text{
        format:'iife',//b\mathref{mbte}\text{BetaAd8}\text{
        format:'iife',//b\mathref{mbte}\text{BetaAd8}\text{
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        format:'ife',/b\mathref{mbte}\t
```

10 编译css

• terser是支持ES6 +的JavaScript压缩器工具包

cnpm install postcss rollup-plugin-postcss --save-dev

rollup.config.js

```
import babel from 'rollup-plugin-babel';
import resolve from 'erollup/plugin-node-resolve';
import cypescript from '@rollup/plugin-typescript';
import typescript from '@rollup/plugin-typescript';
import typescript from '@rollup-plugin-terser';
'import postcss from 'rollup-plugin-postcss';
export default {
    input'!src/main.js',
    output:{
        file: 'dist/bundle.cjs.js', //\data\perp #\data\perp #\data\
```

src\main.js

import './main.css';

src\main.css

```
body{
   background-color: green;
}
```

11 本地服务器

cnpm install rollup-plugin-serve --save-dev

rollup.config.dev.js

package.json

```
| "scripts": {
    "build": "rollup --config rollup.config.build.js",
    "dev": "rollup --config rollup.config.dev.js -w"
    },
}
```