



前端代码的大数据和可视化



肖撼宇
AngularDoc

肖撼宇



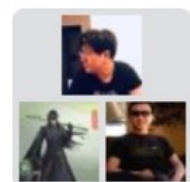
AngularDoc创始人

杭州共驾科技



@xiao_hanyu

在加州硅谷二十多年的老码工，曾在思科和 TIBCO 等公司编写开发工具。以前是 Eclipse 插件的开发者，现在则是 Web 技术的忠实粉丝。



AngularDoc — 杭州共驾科技



该二维码7天内(12月7日前)有效，重新进入将更新

对GitHub开源工程的大数据分析

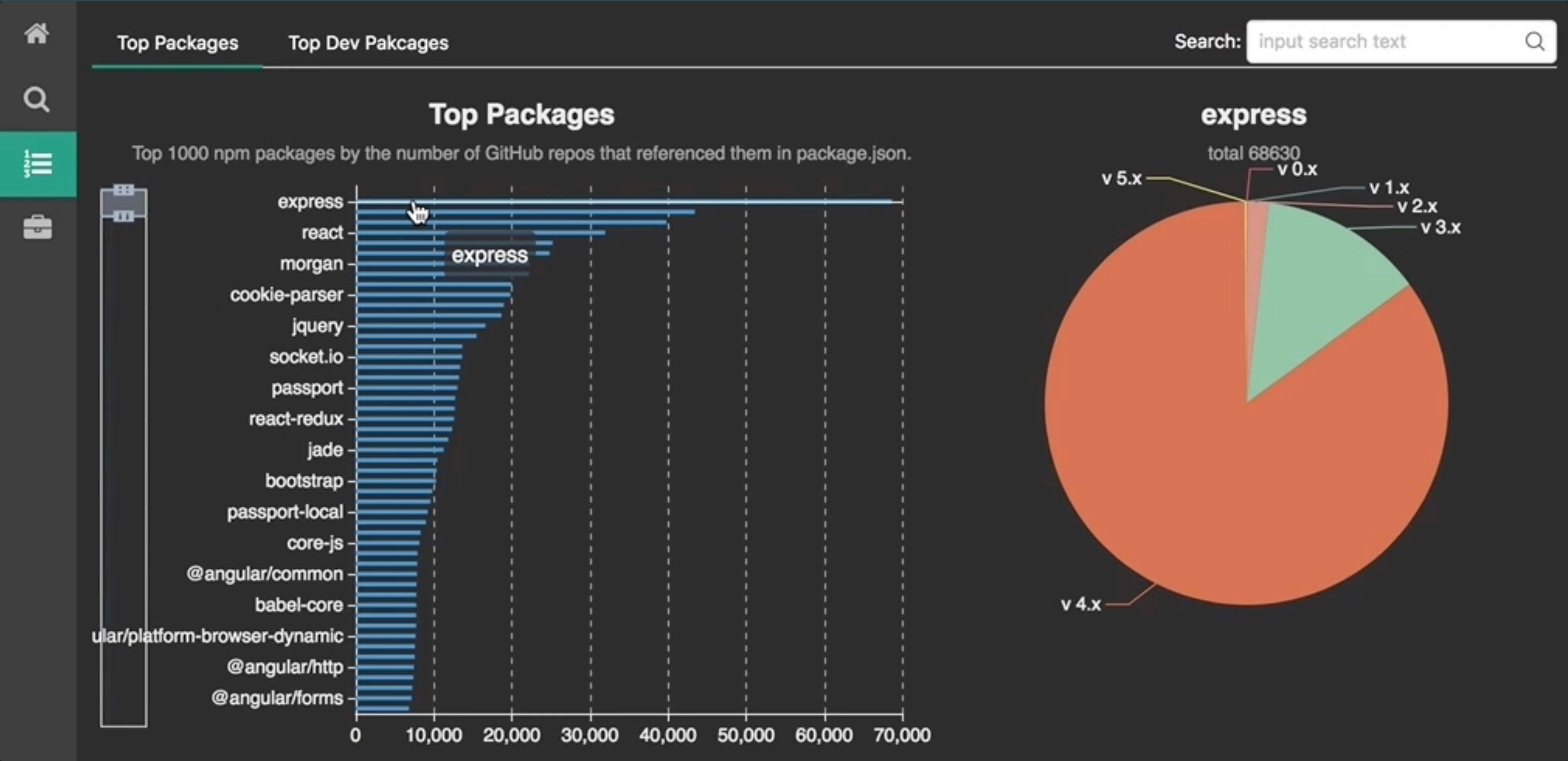
280万 GitHub 工程, 3TB+

44万 package.json 文件

8910 Angular 工程

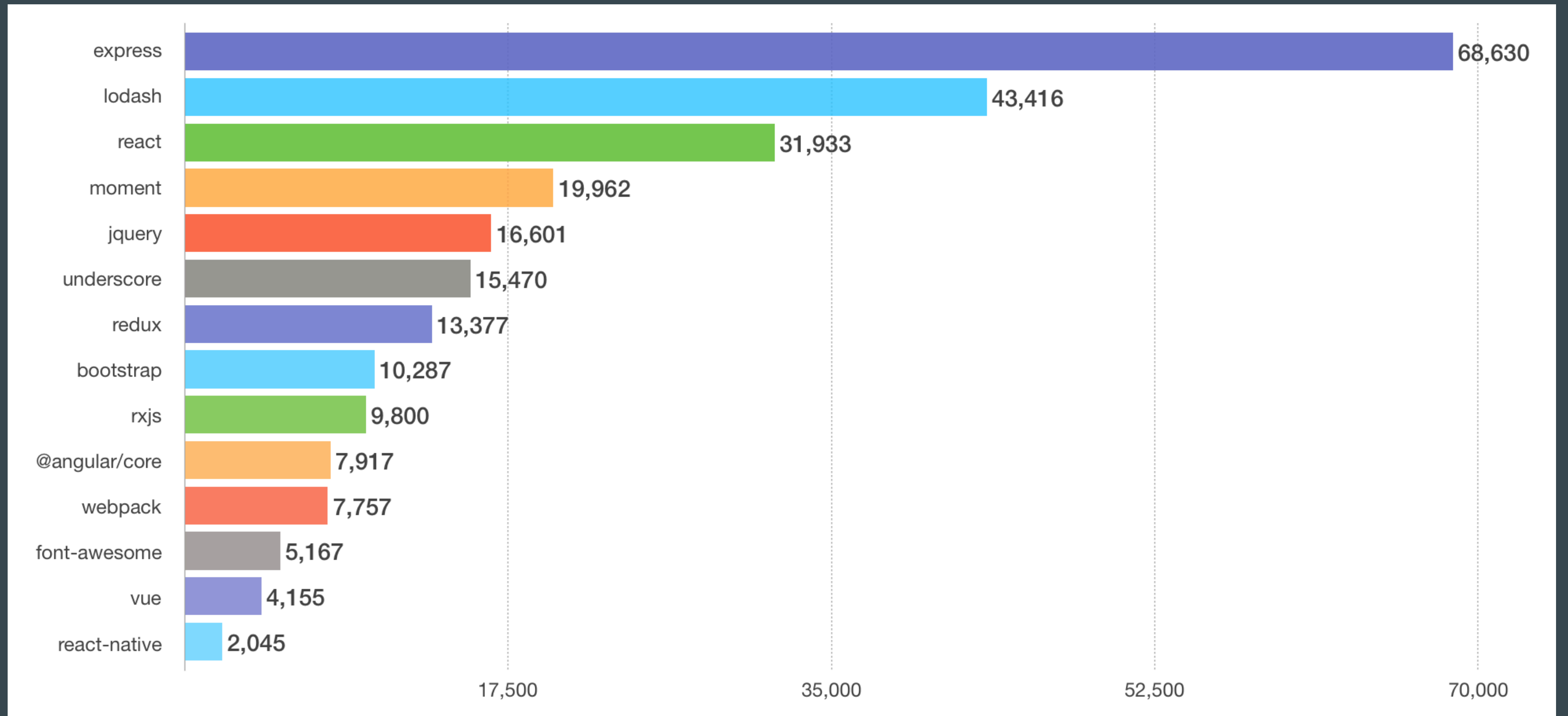
静态分析

npm包排行榜

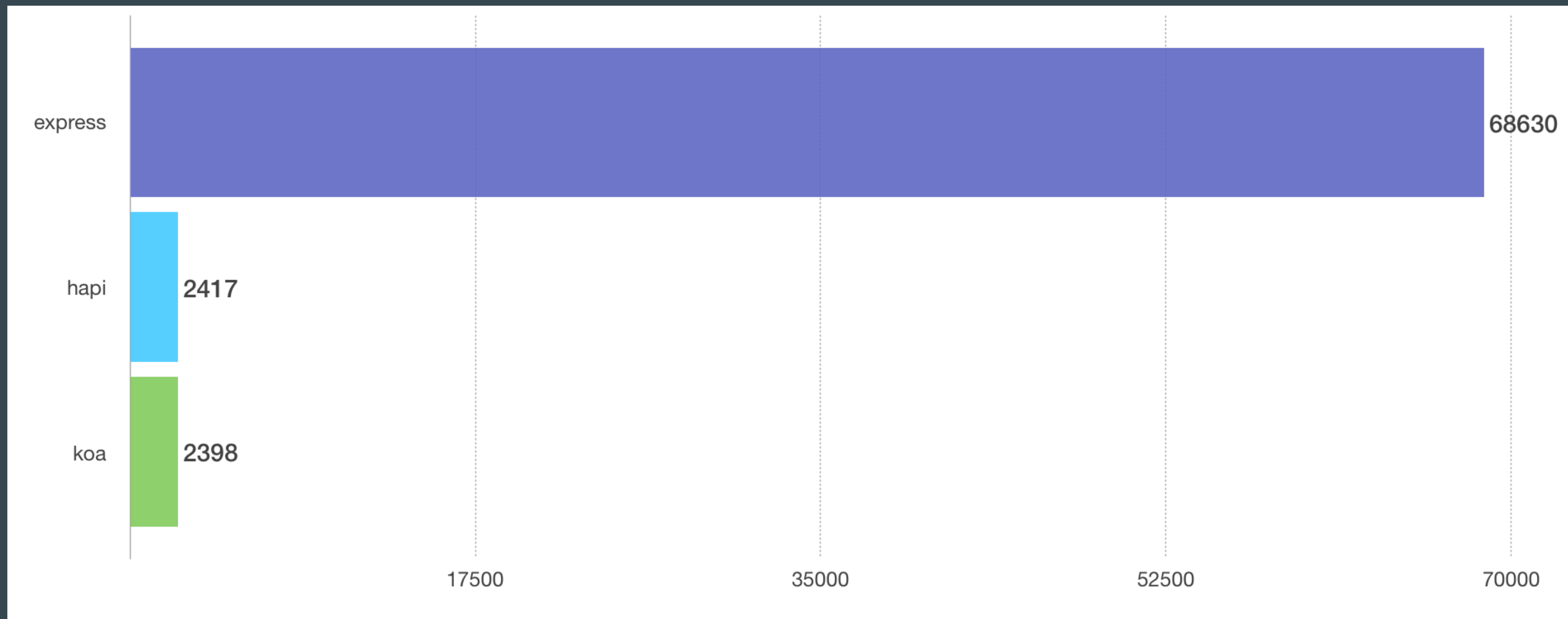


5

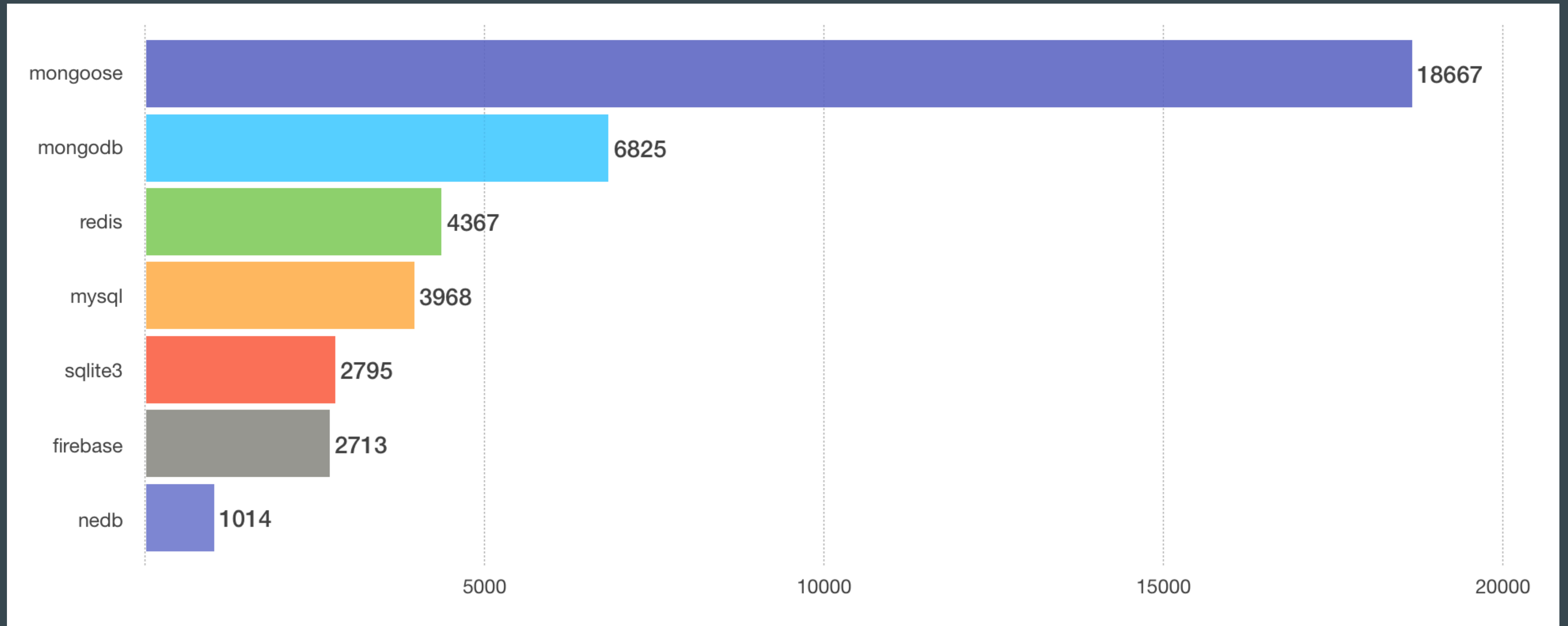
一些常见的npm包



常用的基于Node的web应用后台



Web应用常用的数据存储



对前端应用代码的静态分析

AngularDoc平台

扫描代码，通过逆向工程获取相关的 metadata 信息



集成所有代码的 metadata，拼出整个工程的架构和模块间的依赖关系



前端应用的双向工程和架构可视化

Angular的架构分析



src ^

Summary

</> Classes

Hierarchy

Modules

Routes

Imports



Testing v



Repository ^

Commit History

Component History

Modules

Components

Files

Components by Type

Components by Module (Top 30)

A example-app ^

Summary

</> Classes

≡ Hierarchy

Modules

Routes

Imports

example-app ▾

Testing ▾

Repository ^

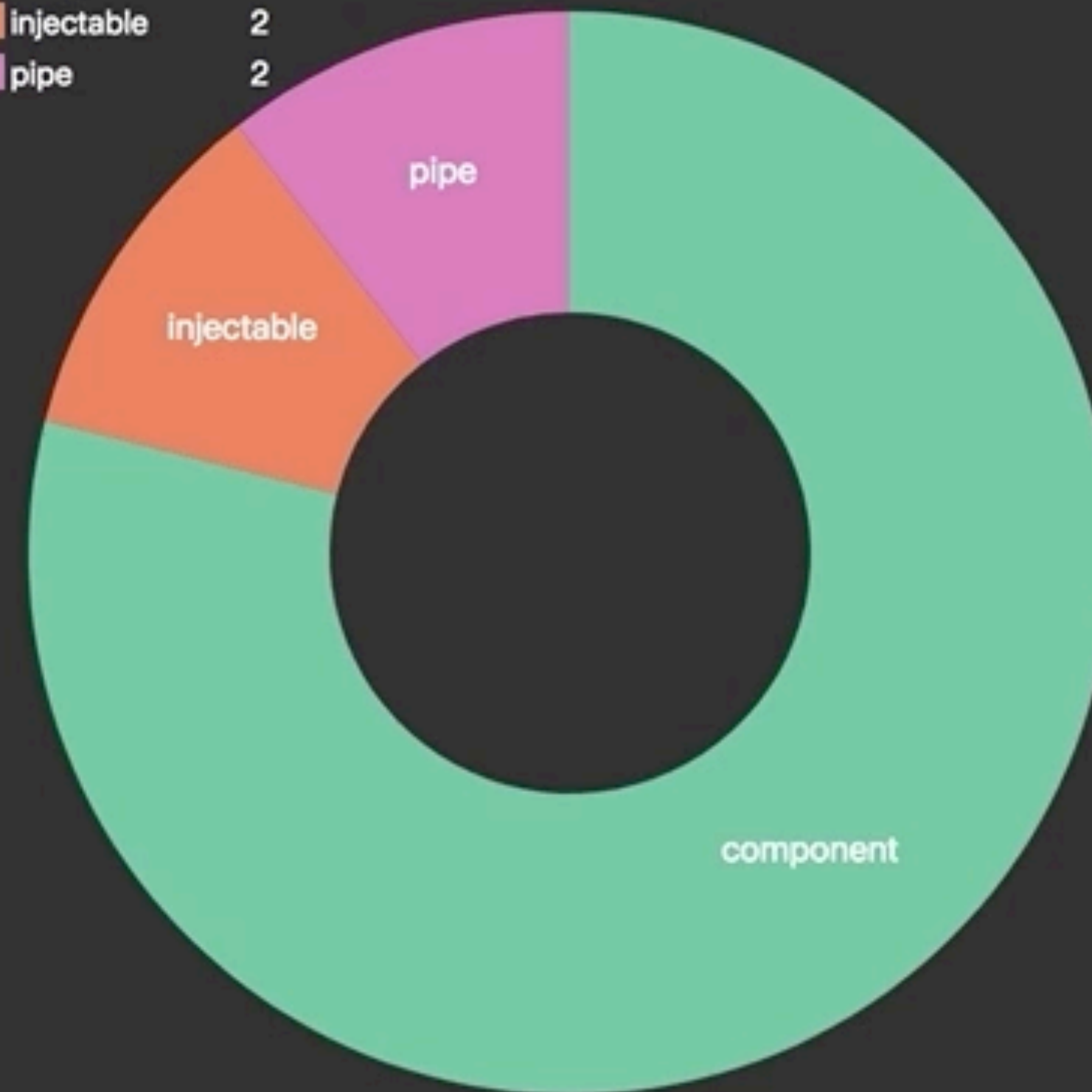
Commit History

Component History

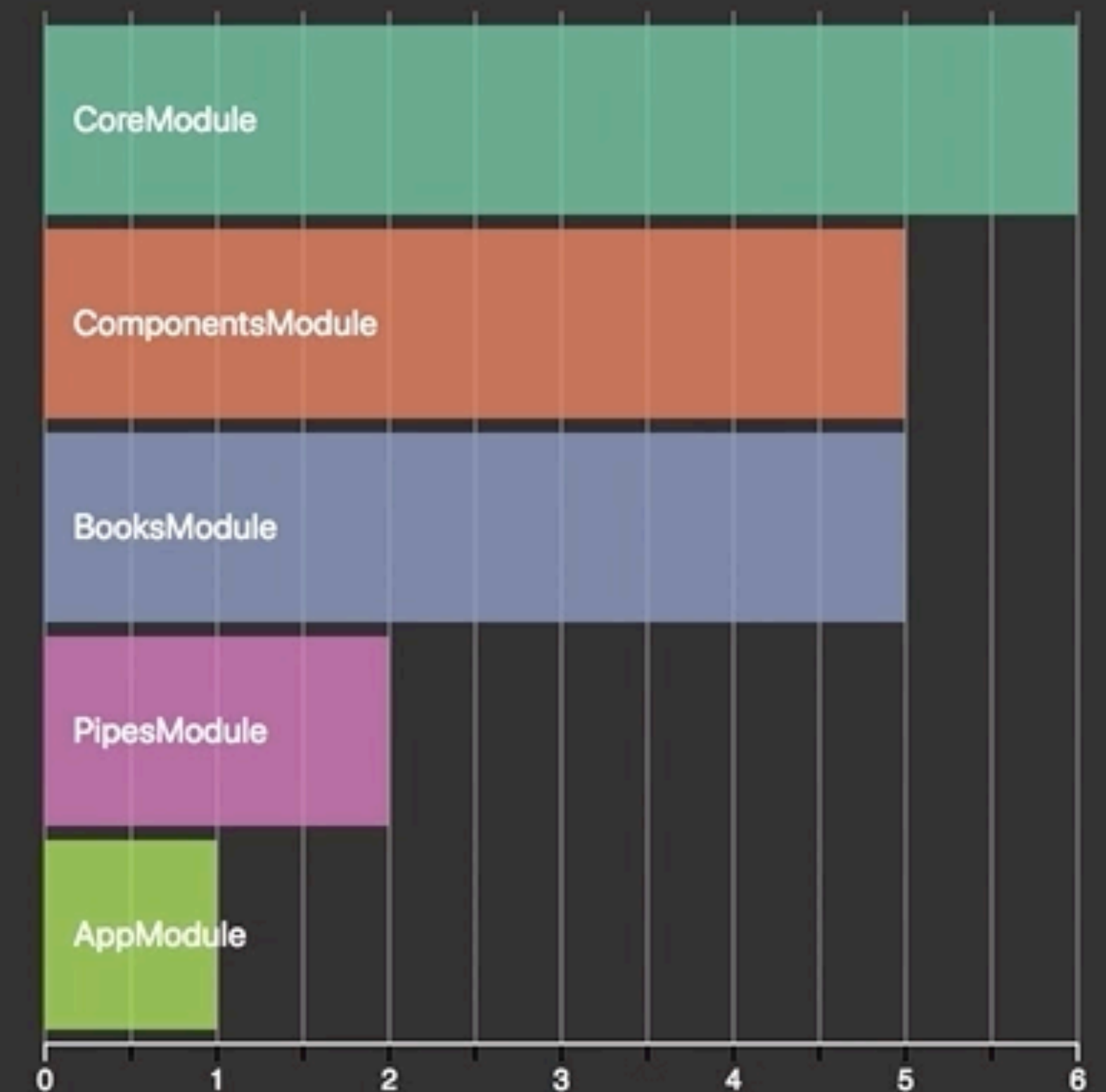
5
Modules19
Components72
Files

Components by Type

component	15
injectable	2
pipe	2



Components by Module (Top 30)



AppModule

CustomRouterStateSerializer

ComponentsModule

C	BookAuthorsComponent
C	BookDetailComponent

CoreModule

C	AppComponent
C	LayoutComponent

Component组件的相关测试

Project Path: src

Test Cases

Components

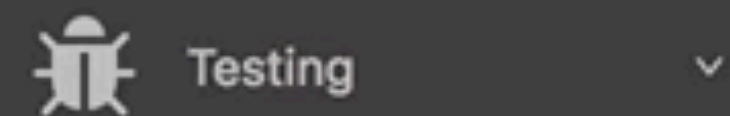
input search text

Q

	File	Components	Tests
-	app/app.component.router.spec.ts	AppModule/AppComponent,AppModule/AboutComponent	
	<div><div>It</div>should navigate to "Dashboard" immediately</div> <div><div>It</div>should navigate to "About" on click</div> <div><div>It</div>should navigate to "About" w/ browser location URL change</div>		
+	app/dashboard/dashboard-hero.component.spec.ts	DashboardModule/DashboardHeroComponent	
+	app/dashboard/dashboard-hero.component.spec.ts	DashboardModule/DashboardHeroComponent	
+	app/app.component.spec.ts	AppModule/AppComponent,AppModule/BannerComponent	
+	app/app.component.spec.ts	AppModule/AppComponent	
+	app/app.component.spec.ts	AppModule/AppComponent,AppModule/BannerComponent	
+	app/hero/hero-list.component.spec.ts	HeroModule/HeroListComponent	



src



Testing



Repository

Commit History

Component History

代码提交的历史记录

By Date



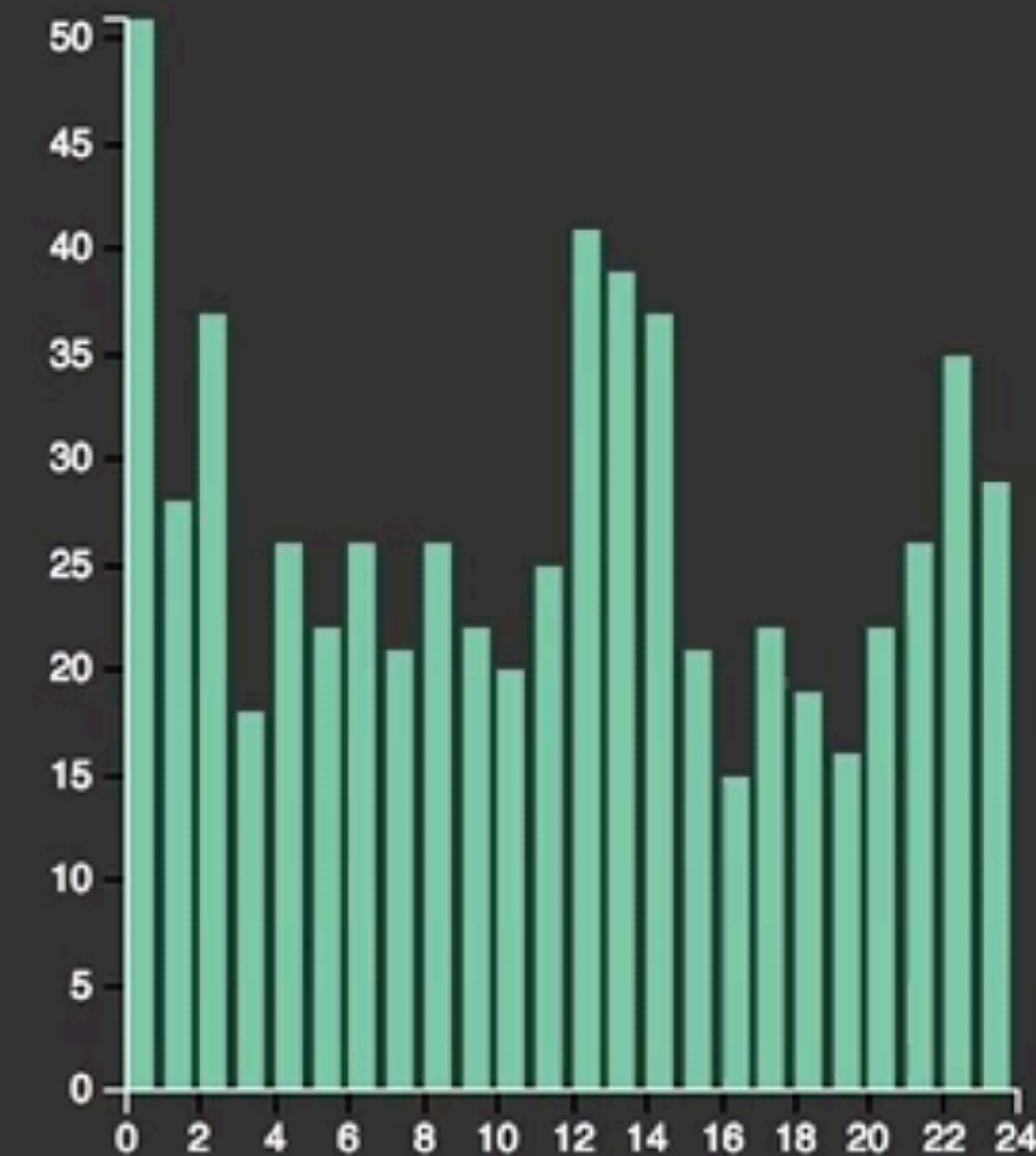
By Contributor



By Day of Week



By Hour of Day



Component组件的历史记录

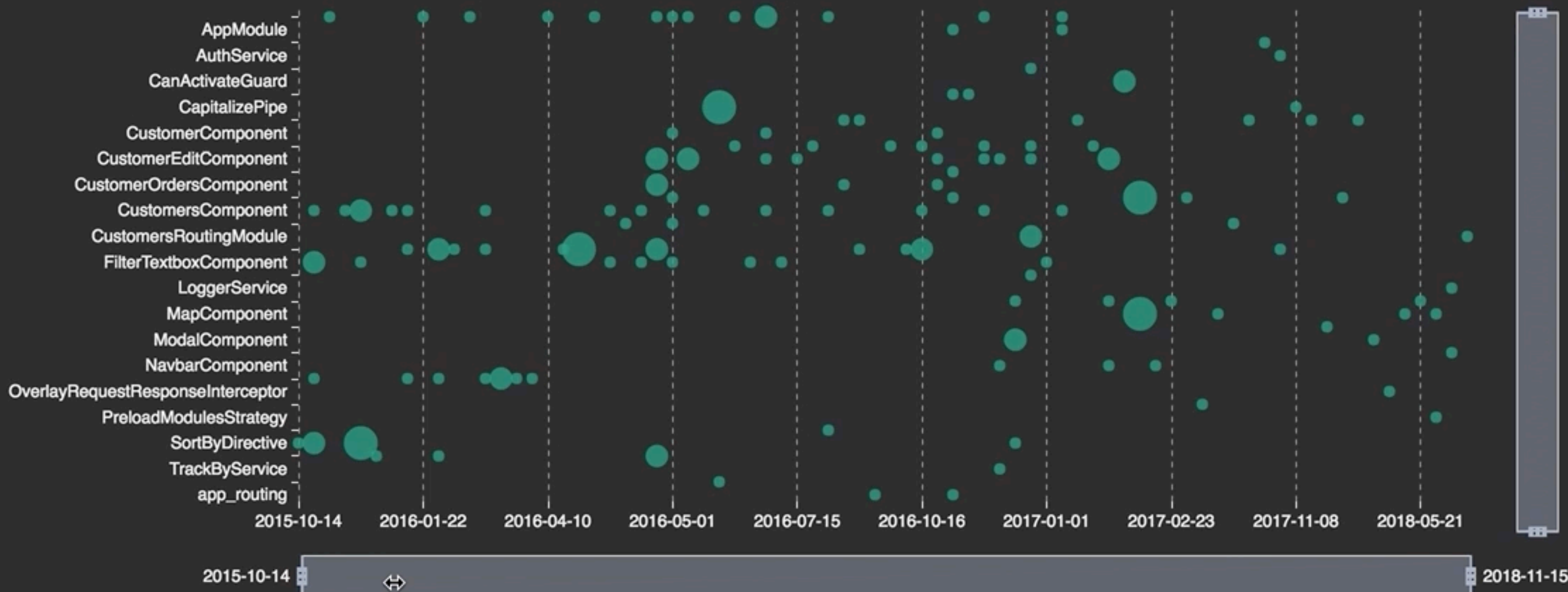
Past Week

Past Month

Past 6 Months

All

input search text



Modules

Component

Committer

Commit Date

Change Type

No data

静态分析结果的大数据

<https://angulardoc.org>

8910

Angular工程

37532

Modules

125468

Components

8678

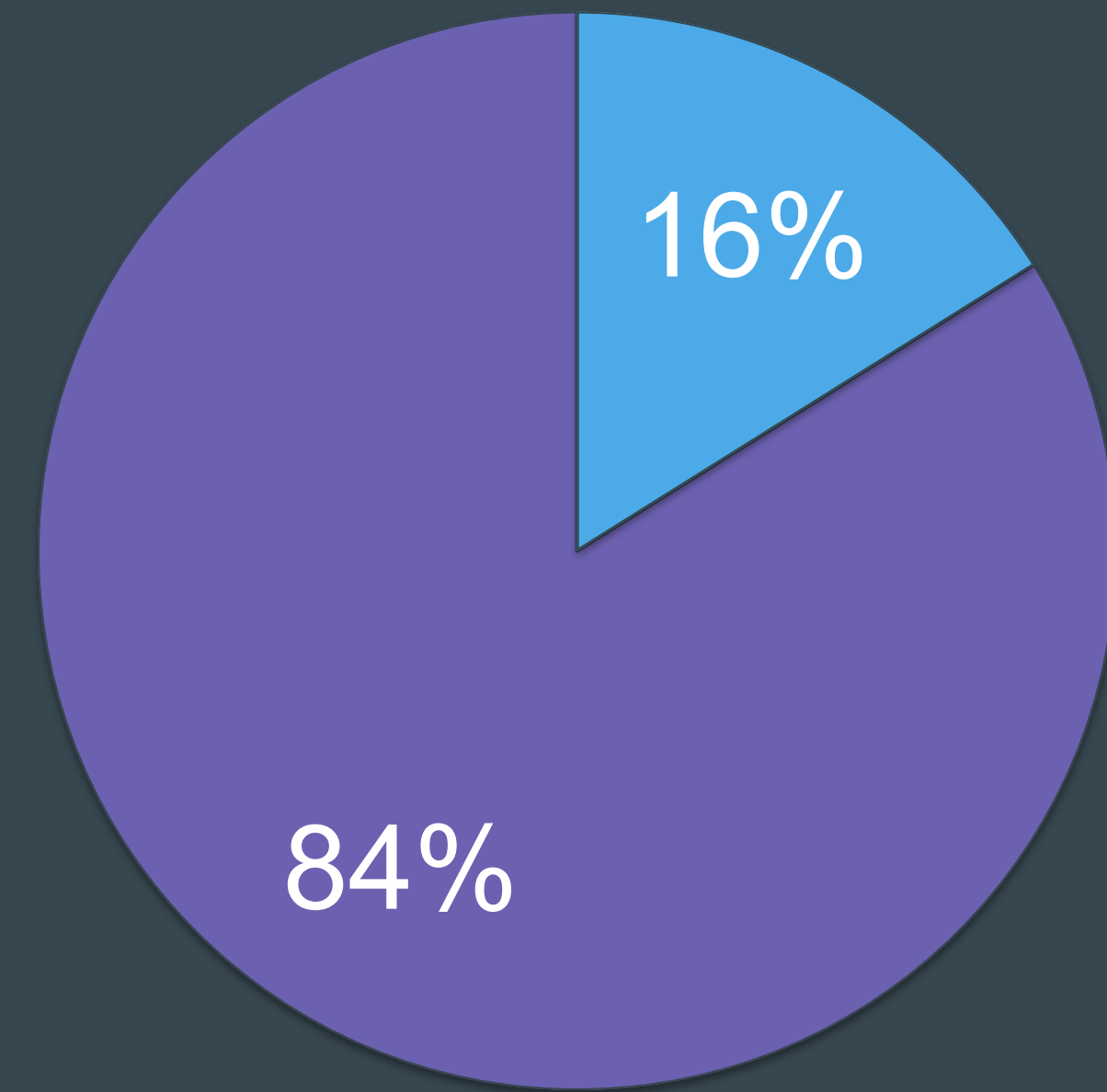
Directives

37149

Injectables

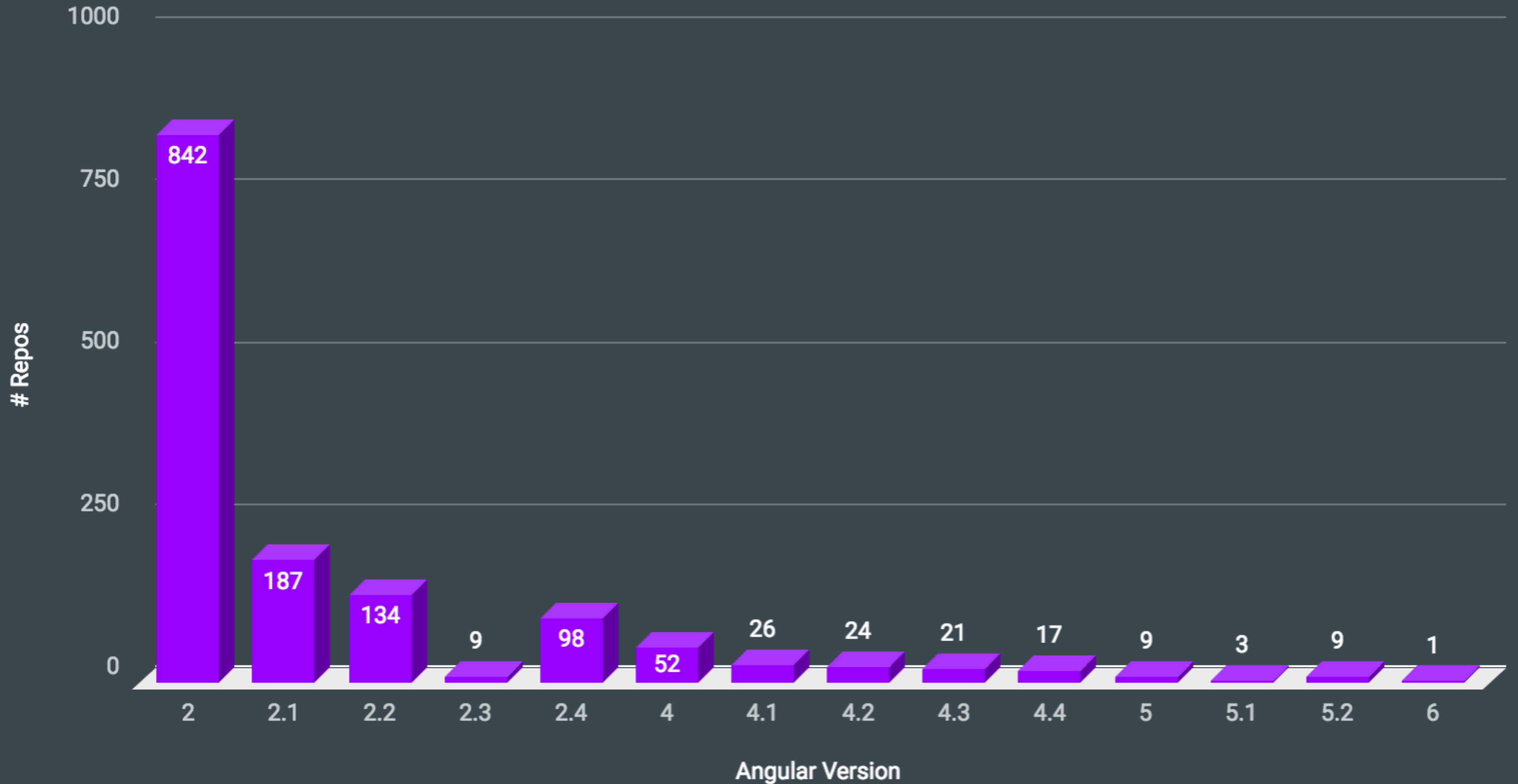
静态分析结果的大数据的一个实际应用

8800个 Angular 工程中,
1400个引用了
@angular/upgrade



六分之一的工程从AngularJS迁移?

GitHub repos that import @angular/upgrade



更多信息

<https://angulardoc.org> — 开源Angular工程库

<https://angulardoc.cn> — 即将开通的SaaS服务

Twitter: @angulardocio

电邮: info@angulardoc.io

欢迎参加12月2日“从 AngularJS 到 Angular”工作坊

