

最终展示

抗疫者·ANTINCP



By 码到退疫

http://129.204.207.38/#/

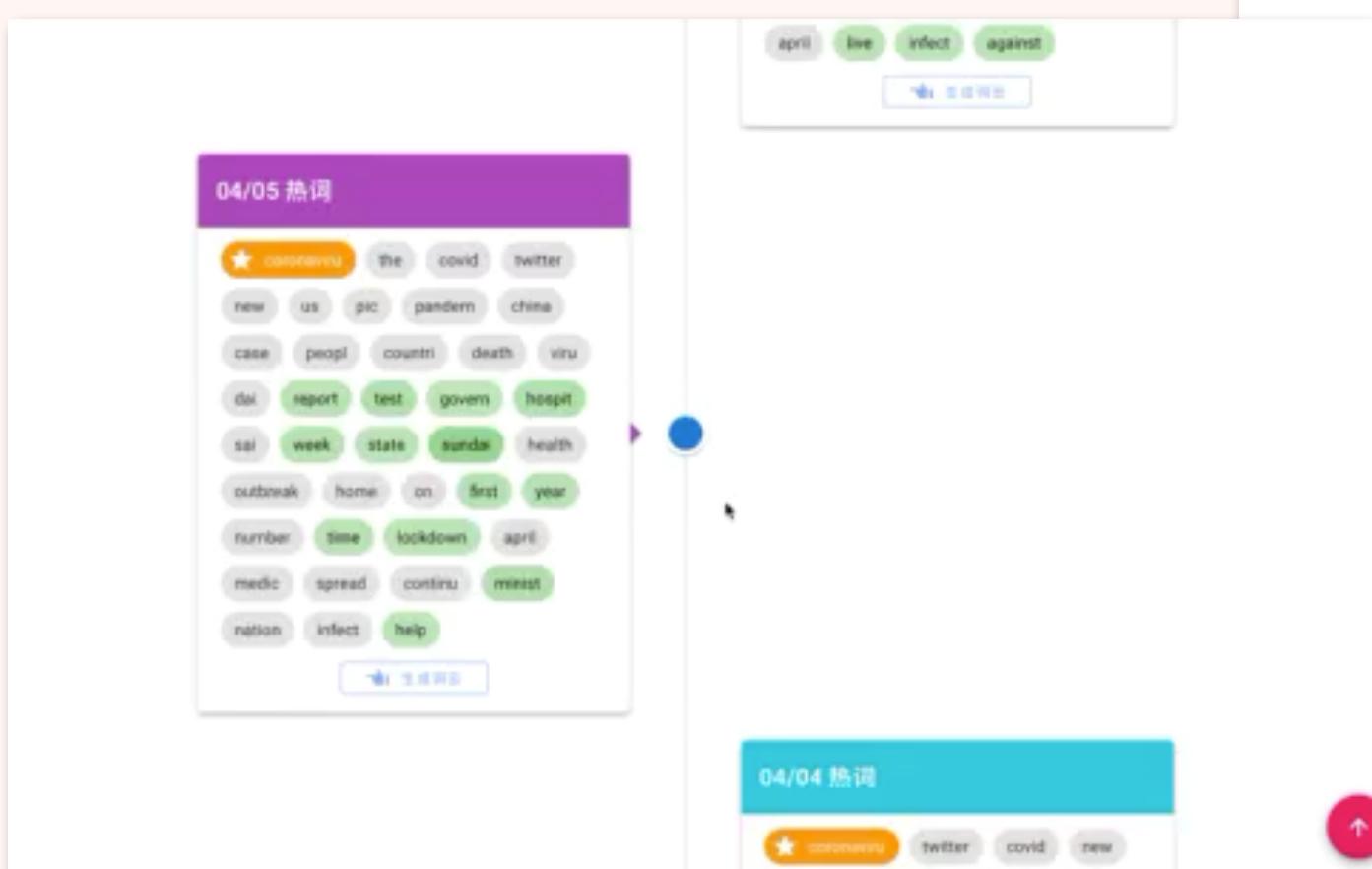
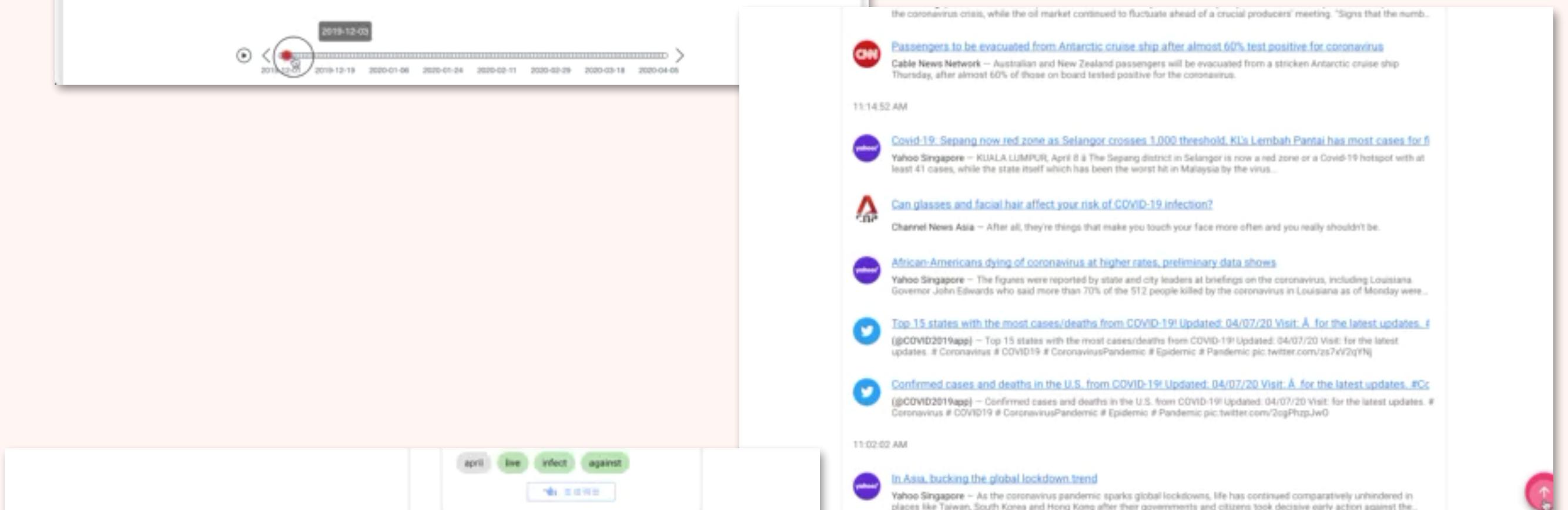
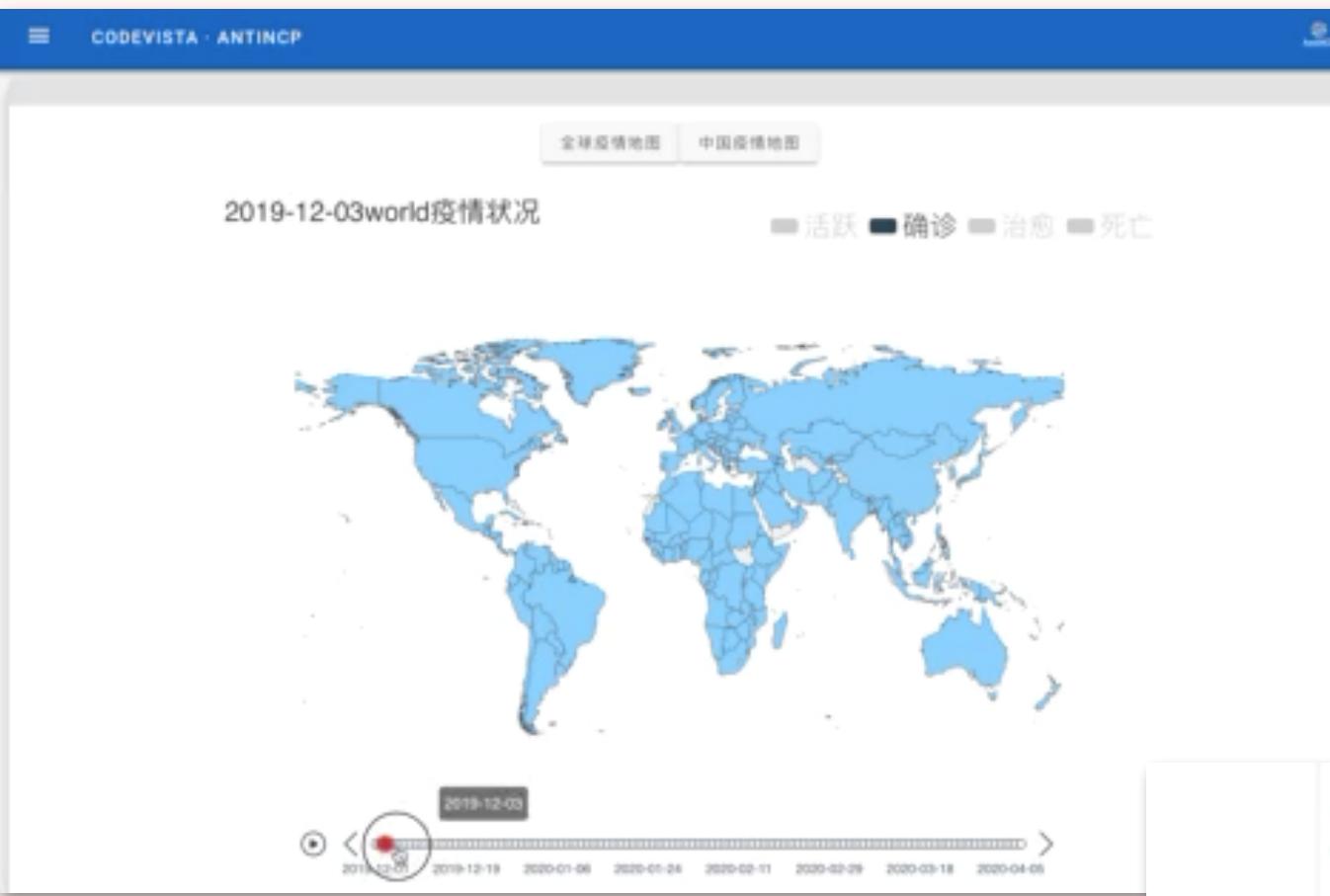
后端 **http://129.204.207.38/api**

文档 **http://129.204.207.38/doc**

手机/电脑均可食用

主要业务

- 时间轴疫情地图
- 疫情报道与查询
- 热词分析与可视化



后半期主要迭代

疫情地图的美国数据与细节修复

热点关注算法增强，添加曲线图，前端美化

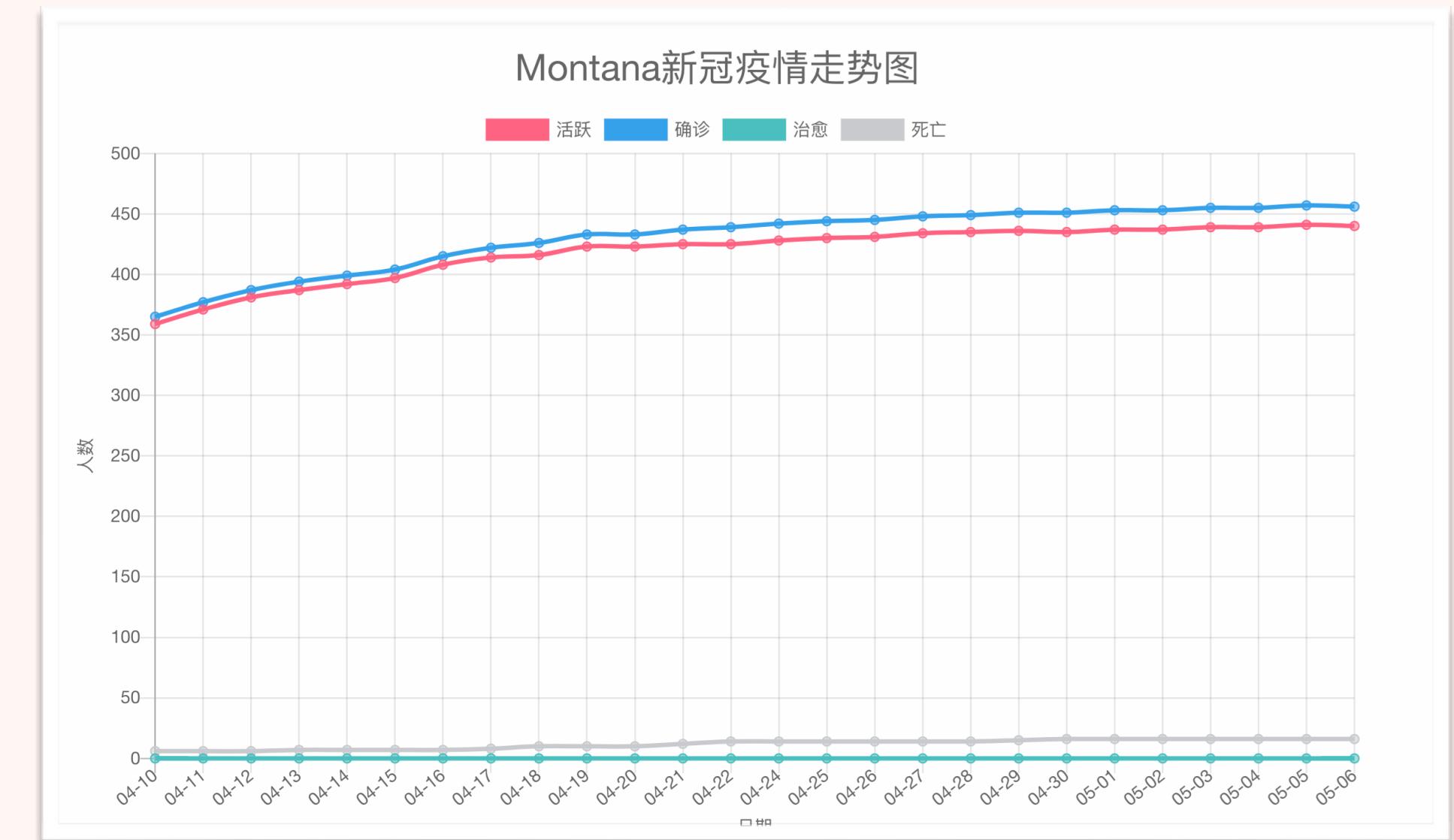
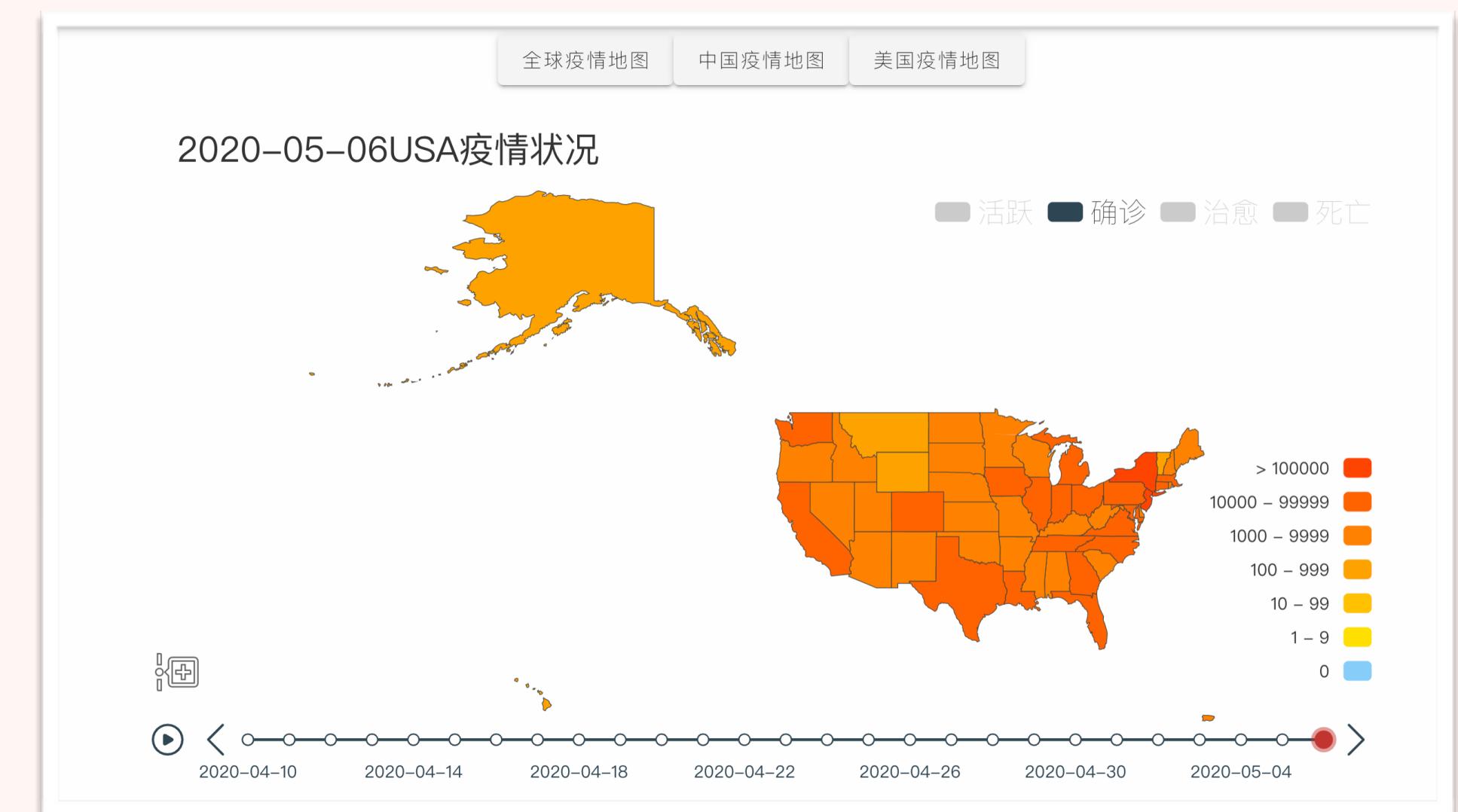
疫情报道细节改进，新增路由分享

文章主题聚类与服务集成

负载均衡与压力测试

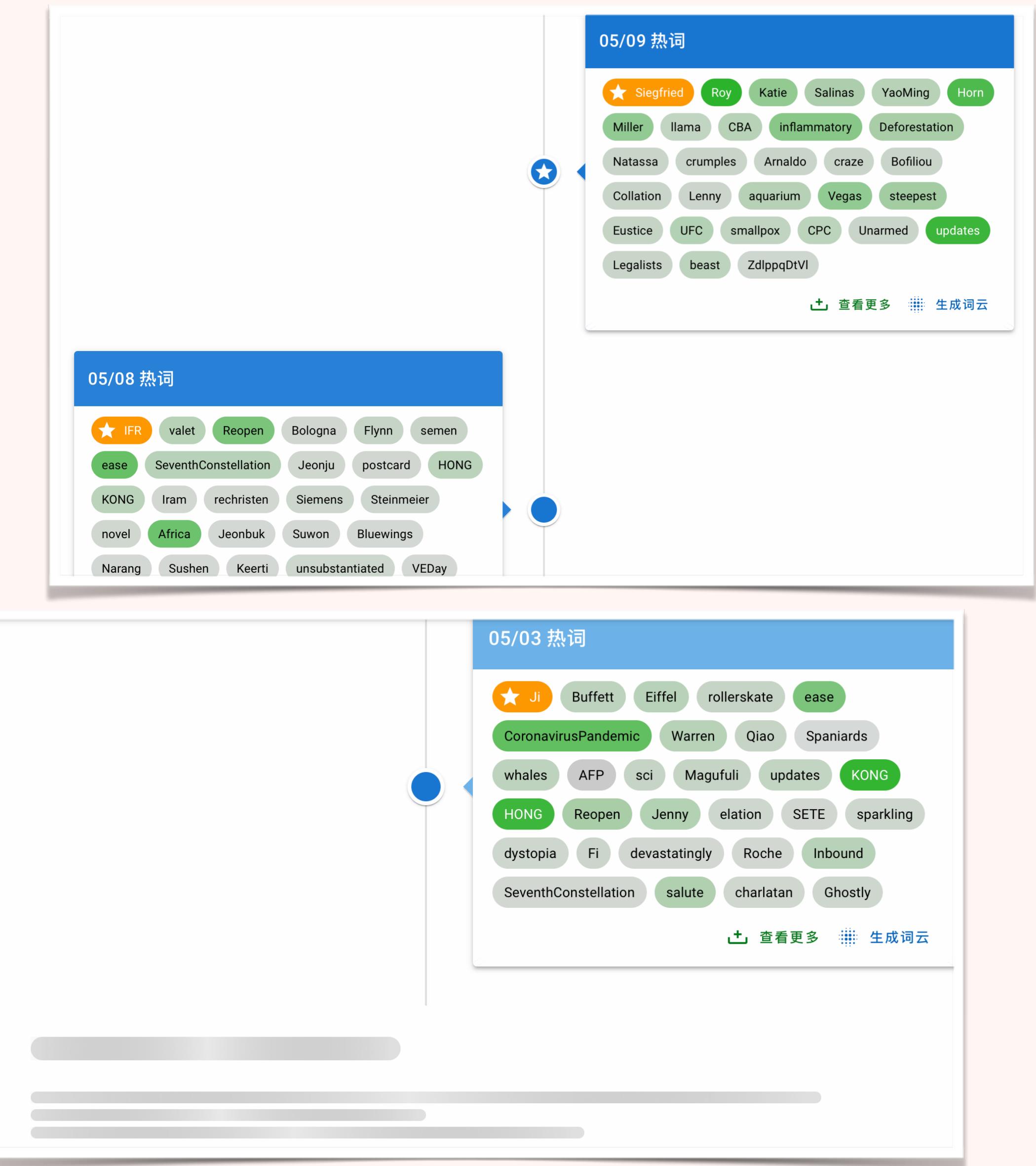
疫情地图

- 新增美国数据: From JHU
- 调整了颜色方案 Tone map
- “显示更多”按钮, 以更快地获取数据



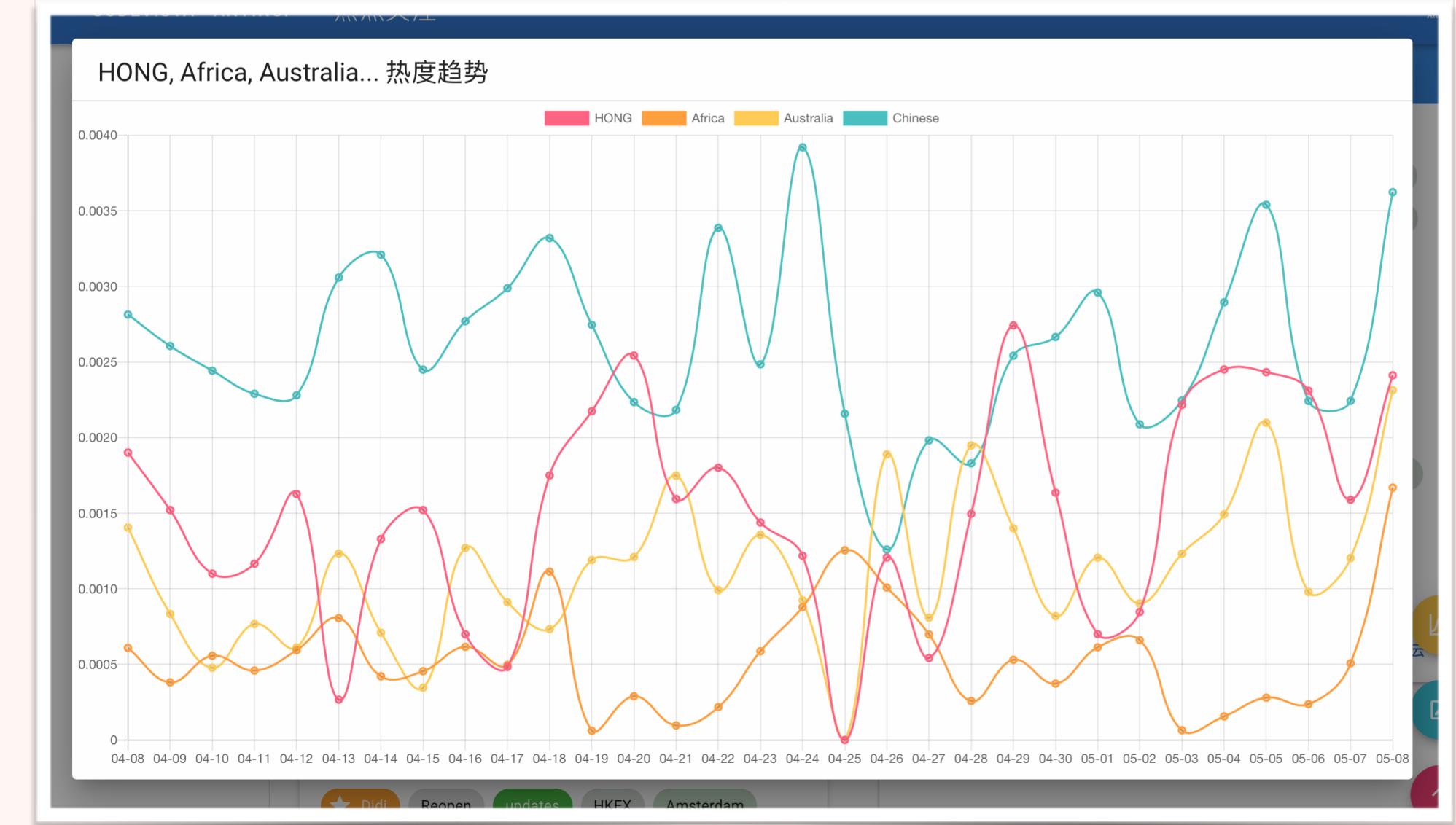
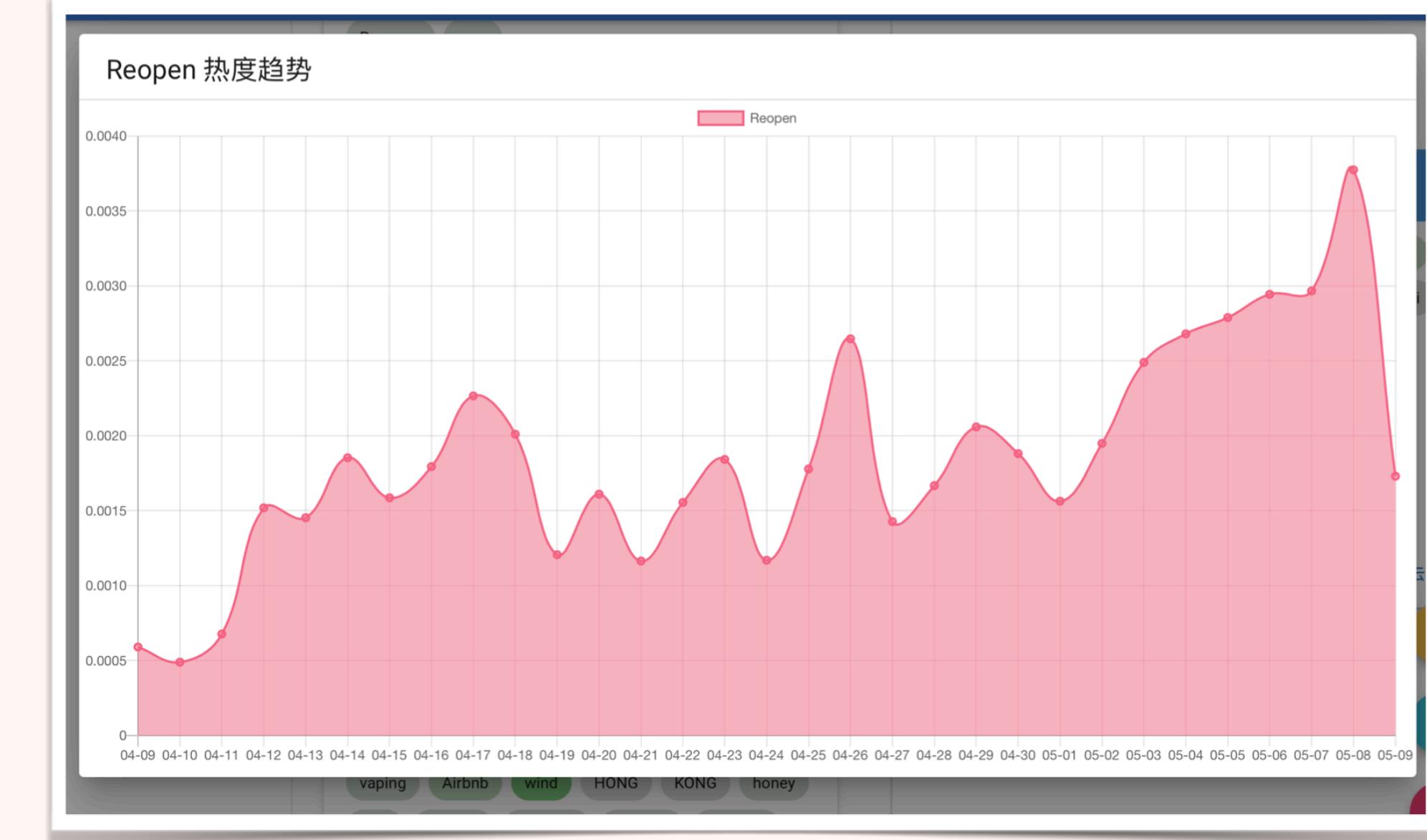
热点关注

- 构建 **Stem2Word** 数据库，热词更可读
- UI美化，采纳艺术专业朋友的建议
- 懒惰加载7天之外的热词
- “查看更多”按钮



热点关注

- 热词热度曲线可视化
- 支持多词综合查询



热点关注-算法概览

- 目的：挑选出一天当中高频的，又比较具有“价值”的词语
 - **Coronavirus**虽然高频，但不具有价值
 - **Remdesivir**（瑞德西韦）虽然低频，但呈上升趋势，具有价值
- 算法：以天为单位计算 **Tf·Idf**
 - **Tf**：反映一天中的词的词频
 - **Idf**：统计【60天内】出现了词的天数倒数，**60天**反映词的“效期”和“上升”趋势，倒数反映“价值”
- 文章热更新的同时【增量】计算**Tf·Idf**并更新数据库

Result 5	Result 2
目 name	目 name
value	value
Friday	1 Coronavirus
disinfectant	2 pandemic
updates	3 Covid
Liberia	4 US
tailored	5 Trump
injecting	6 New
sarcastic	7 deaths
CoronavirusPandemic	8 updates
Tsai	9 cases
Twitter	10 President
pandemic	11 says
bleach	12 reported
treatment	13 Twitter
reading	14 state
KTM	15 Friday
Marengo	16 virus
refill	17 lockdown
Umberto	18 people
Unenforceable	19 world
Wtown	20 China
recovery	21 health
Keane	22 One
Thursday	23 disinfectant
Im	24 treatment
ducks	25 medical
billion	26 country

After

4月25日（周五）的热词排行榜

Before

疫情报道

- 点击文章内容以显示完整摘要
- 路由参数和搜索参数双向绑定，用户可以通过 URL 分享搜索内容
- 用户可以从热词详情对话框跳转到疫情报道

The screenshot shows a search interface for COVID-19 news reporting. The URL in the address bar is `129.204.207.38/#/reports?words=defer&dateMin=2020-04-10&mode=and`. The search bar contains the word "defer". The results list two items:

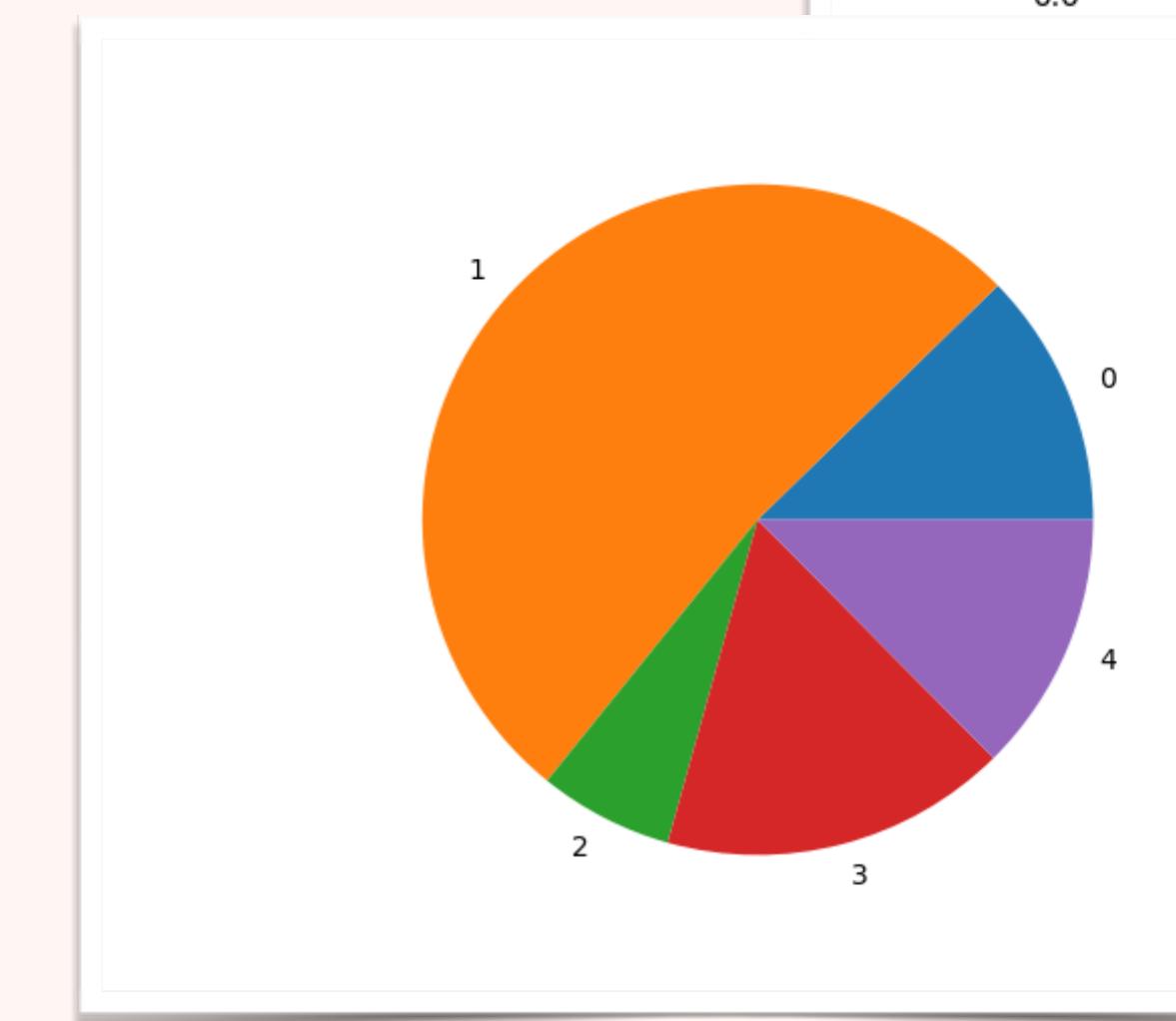
- 5/9/2020, 3:00:01 PM: CNN - No plan B to defer the Olympics again, official says. Cable News Network – No plan B to defer the Olympics again, official says.
- 4/14/2020, 1:54:31 AM: China defends the WHO after POTUS and others say it is deferring to Beijing. /u/SeventhConstellation – submitted by /u/SeventhConstellation [link] [comments]

The screenshot shows a news reporting interface with a sidebar titled "Beijing 相关报道". The main area displays a timeline of posts:

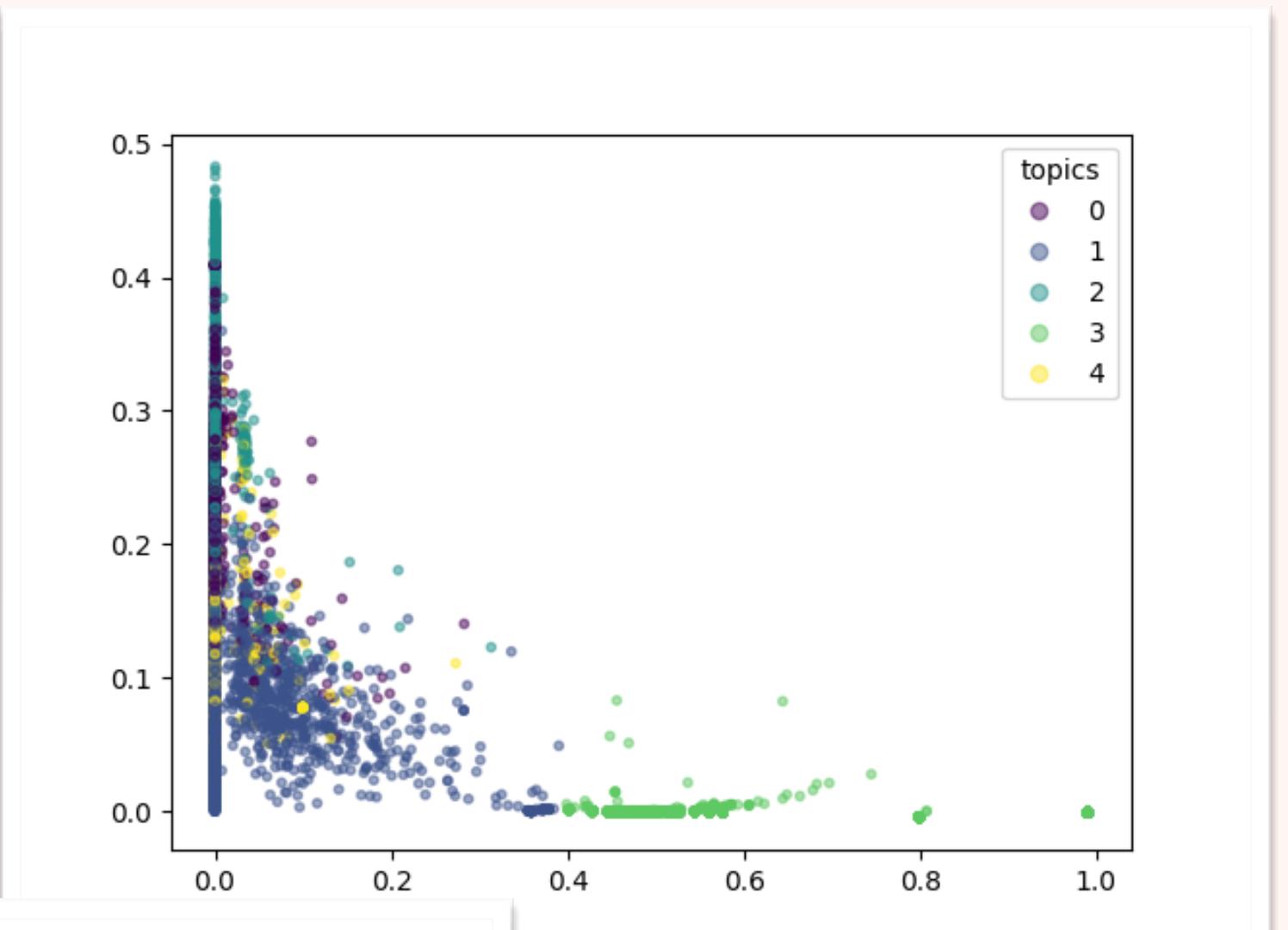
- 5/7/2020, 5:00:00 AM: Strait Times - Pompeo has no proof of lab leak: Beijing. Strait Times – May 07, 2020 5:00 AM BEIJING àç China has hit back at United States Secretary of State Mike Pompeo over his claims that the coronavirus originated in a laboratory in Wuhan, saying he does not have any evidence.
- 4:24:53 PM: China accuses Pompeo of telling lies over its handling of COVID-19 pandemic. Channel News Asia – BEIJING: China on Thursday (May 7) accused USÀ Secretary of State Mike Pompeo of telling one lie to cover up another in his continued attacks against Beijing over the COVID-19À pandemic. The remarks were made by Chinese foreign ministry spokeswoman Hua Chunying, who reiterated that Beijing...
- 11:24:06 PM: The @ChinaDaily headquarter in Beijing has just received this lovely post card from #Italy. The letter%which was written to "my dear China people", traveled three months from Bologna to Beijing amid the coronavirus pandemic. A symbol of China-Italian friendship. @ItalyinChinapic.twitter.com/H3ikj0EUOD. (@chinadailyrus) – The @ ChinaDaily headquarter in Beijing has just received this lovely post card from # Italy . The letter%which was written to "my dear China people", traveled three months from Bologna to Beijing amid the coronavirus pandemic. A symbol of China-Italian friendship. @ItalyinChina pic.twitter.com/H3ikj0EUOD
- 4:05:24 PM: China accuses Pompeo of telling lies over its handling of coronavirus. Strait Times – May 07, 2020 4:05 PM BEIJING (REUTERS) - China accused US Secretary of State Mike Pompeo of telling one lie to cover up another in his continued attacks against Beijing over the coronavirus pandemic.
- 4:05:24 PM: China says supports WHO, opposes US and others trying to politicise coronavirus pandemic. Strait Times – May 07, 2020 3:55 PM BEIJING (REUTERS) - China said on Thursday (May 7) that it supports World Health Organization efforts to investigate the origin...

主题聚类

- 文章用词袋模型 Tf·Idf 向量化
 - 采用 K-Means 算法聚类
 - 为了使所得主题较有解释性，先通过先验知识按有没有出现【关键词】对文章进行【预分类】，再执行 K-Means 迭代收敛
 - 五个聚类：China, US, Cases, Lockdown, Global



五个主题的文章比例



主题聚类-服务集成

- 主题分类器部署到 Flask 后端，成为原有后端的一个子系统
- 热更新文章时，同时对主题做分类
- 报道页面显示文章的主题标签
- 支持按主题搜索

Pandemic antibiotics surge will cause more deaths: WHO us
Yahoo Singapore – Increased antibiotics use in combating the COVID-19 pandemic will strengthen b
Organization said Monday. WHO director-general Tedros Adhanom Ghebreyesus said a "worrying nu

4:16:56 PM

Gov. Murphy Says New Jersey Is Ready for â€ Stage Twoâ€ Reopening. Governor says successful
starting June 15. Lockdown
/u/SeventhConstellation – submitted by /u/SeventhConstellation [link] [comments]

â€ Coronavirus cases up by 10% in Pakistan after lockdown easedâ€ Lockdown
/u/SeventhConstellation – submitted by /u/SeventhConstellation [link] [comments]

Stocks make cautious gains as US-China frictions slow recovery rally. us
Channel News Asia – SINGAPORE: Asian stocks rose on Tuesday (Jun 2) as investors' focus on the
depth of economic damage. Hampering broader global risk appetite, however, was USÂ President D

Indonesia pulls out of annual Mecca pilgrimage over virus fears. us
Yahoo Singapore – Indonesia is pulling out of the annual Islamic pilgrimage to Mecca over corona
than 220,000 people from the world's biggest Muslim-majority country were set to take part in this ye

China x | 起始日期

1 2 3 4 5 ... 183 184 185 186

listing as countryâ€ s EV industry fights slowdown. China
minent Chinese challengers, is preparing for an initial public offering in the L
rding to media reports, although plans remain at an early stage. A company

Huadian joins stampede on Hong Kong market to take units private as market slump uncovers dozens of undervalued stocks. China
Yahoo Singapore – China Huadian Corporation, one of the countryâ€ s five state-owned electricity generators, will privatise its Hong Kong
market to buy back undervalued assets.Huadian will offer HK\$8.3 billion (US\$1.06 billion) to buy 2.57 billion shares of the Hong Kong-liste

10:51:21 AM

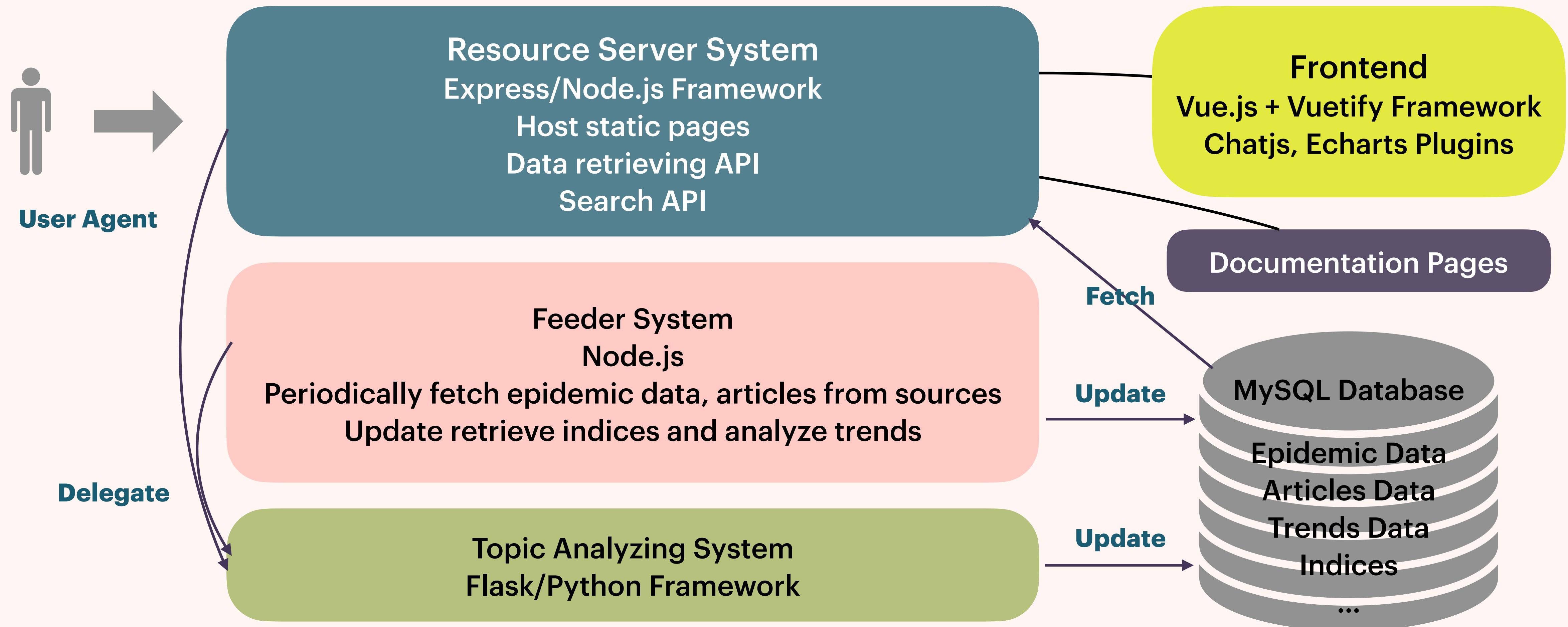
Hong Kong and China stocks open higher on optimism over economic recovery, shrugging off Trump threats and US protests. China
Yahoo Singapore – Hong Kong and China stocks opened higher Tuesday on positive sentiment about Chinaâ€ s economic recovery and i
opened 0.3 per cent higher to 23,792.24. The Shanghai Composite Index inched up 0.03 per cent higher to 2916.32.The gains came as inv

8:57:33 AM

Australia â€ carefully and closelyâ€ watching US-China phase one purchases for signs of trade diversion. China
Yahoo Singapore – Canberra is looking â€ carefully and closelyâ€ at US-China trade flows, with the inference that the phase one trade d
Organisation protocols and damage Australiaâ€ s exports.Trade minister Simon Birmingham told the South China Morning Post in a state

DEMO

架构概要



全部部署在一个单核/2G腾讯云服务器上

贡献

- 完全开放的 API 及丰富的文档
- 统计IP得到的用户数：1884+
- 代码即将开源

AntiNCP Backend API 0.3.0 ▾

AntiNCP Backend

Articles

Articles - Get article ids within time range 0.4.0 ▾

GET

```
http://129.204.207.38/api/retrieve/articles/timeRange/:dateMin/:dateMax
```

权限: everyone

Example usage: Response (example):

```
curl "http://localhost/api/retrieve/articles/timeRange/2020-4-4,10:00:00/2020-4-4.11:00"
```

Param

字段	类型	描述
dateMin	string	query date string lower bound
dateMax	string	query date string upper bound (INCLUDED)

Query

字段	类型	描述
order	string	'asc' or 'desc' - return the result in time ascending order or descending order. By default 'desc'
topics	string	topics(as id) to query for article ids

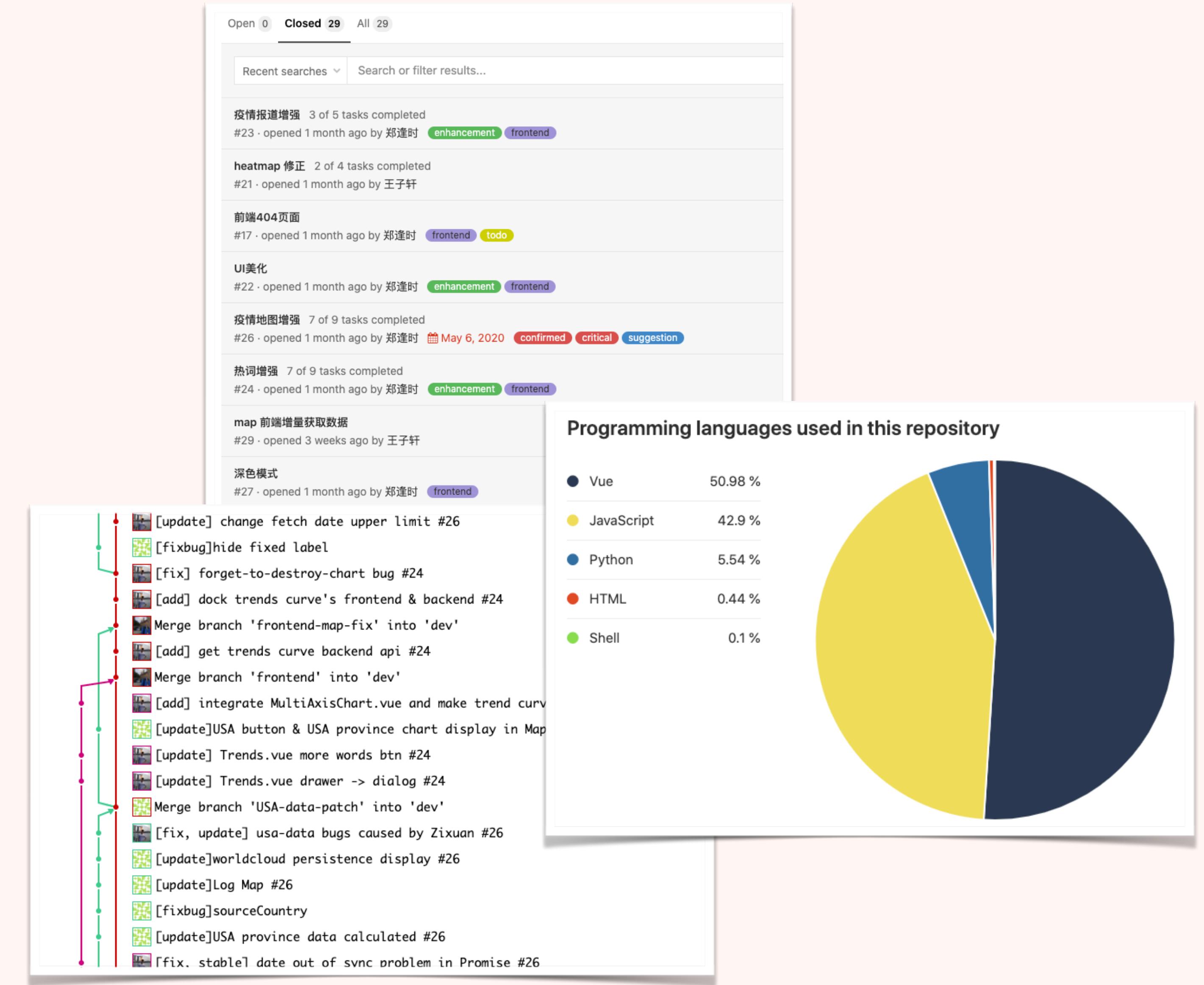
发送示例请求

/api/retrieve/articles/timeRange/:dateMin/:dateMax 网址



开发规范

- Issue 驱动的迭代开发
- commit message 与分支规范
- 168 commits, 1.8 commits/day



THANKS

Reference see <http://129.204.207.38/#/about>

c.r. 唐杰老师, 殷达助教, @随艺, @郑小猫, @why, 各位同学的宝贵意见~
