

# 自动化测试框架设计与实践



# Introduce

- github      @xudafeng
- weibo      @达峰的夏天
- twitter      @2009xdf
- site      xdf.me
- company      alipay.com

# Why Automated Testing





- 移动WEB演进越来越快
- 版本分化越来越频繁
- 混合式的技术选型
- 场景越来越多且愈发复杂
- 测试方案和手段被透明化
- 可归档、复用、易重新组织



## 更直接的收效

# 性能专项的驱动器

- 耐久性测试
- 性能基准测试



- HTTP 或网关层面实现
- 代理端注入测试套件 **testsuit**
- 代理端插入测试脚本

[anchor#1] movie

# 满足需求么？





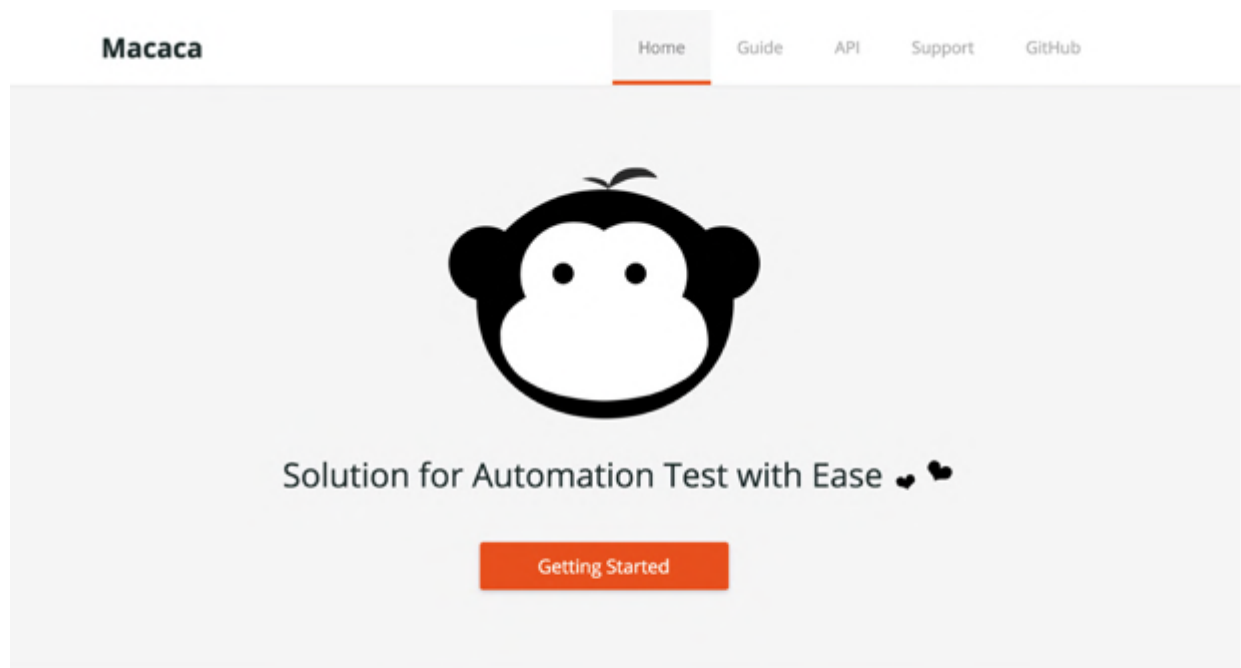
# 自动化本质是软件开发

# 环境和配置差异

- 多套部署环境

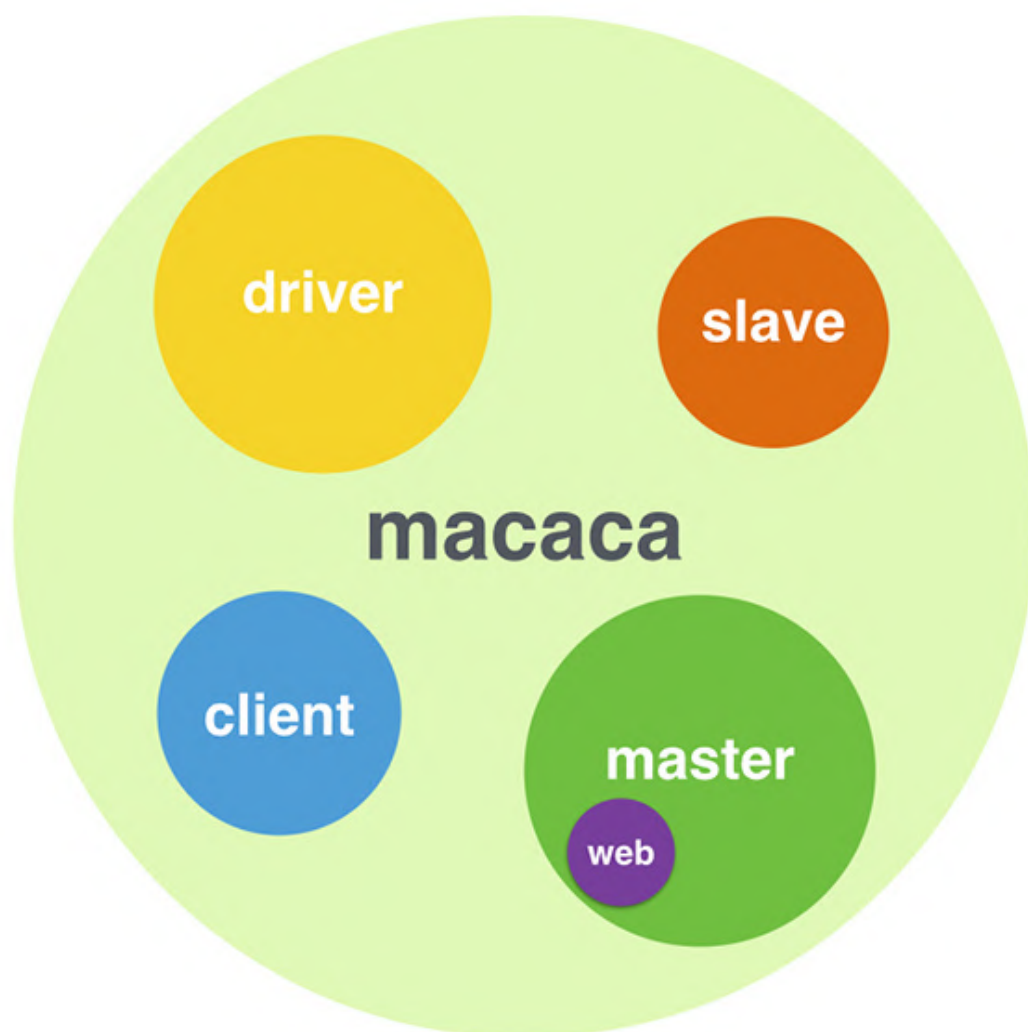
# 降低自动化的成本

- 收敛覆盖
- 趋于底层
- 数据剥离
- 环境自动化



Write End-to-End tests in Node.js and run against a WebDriver server.





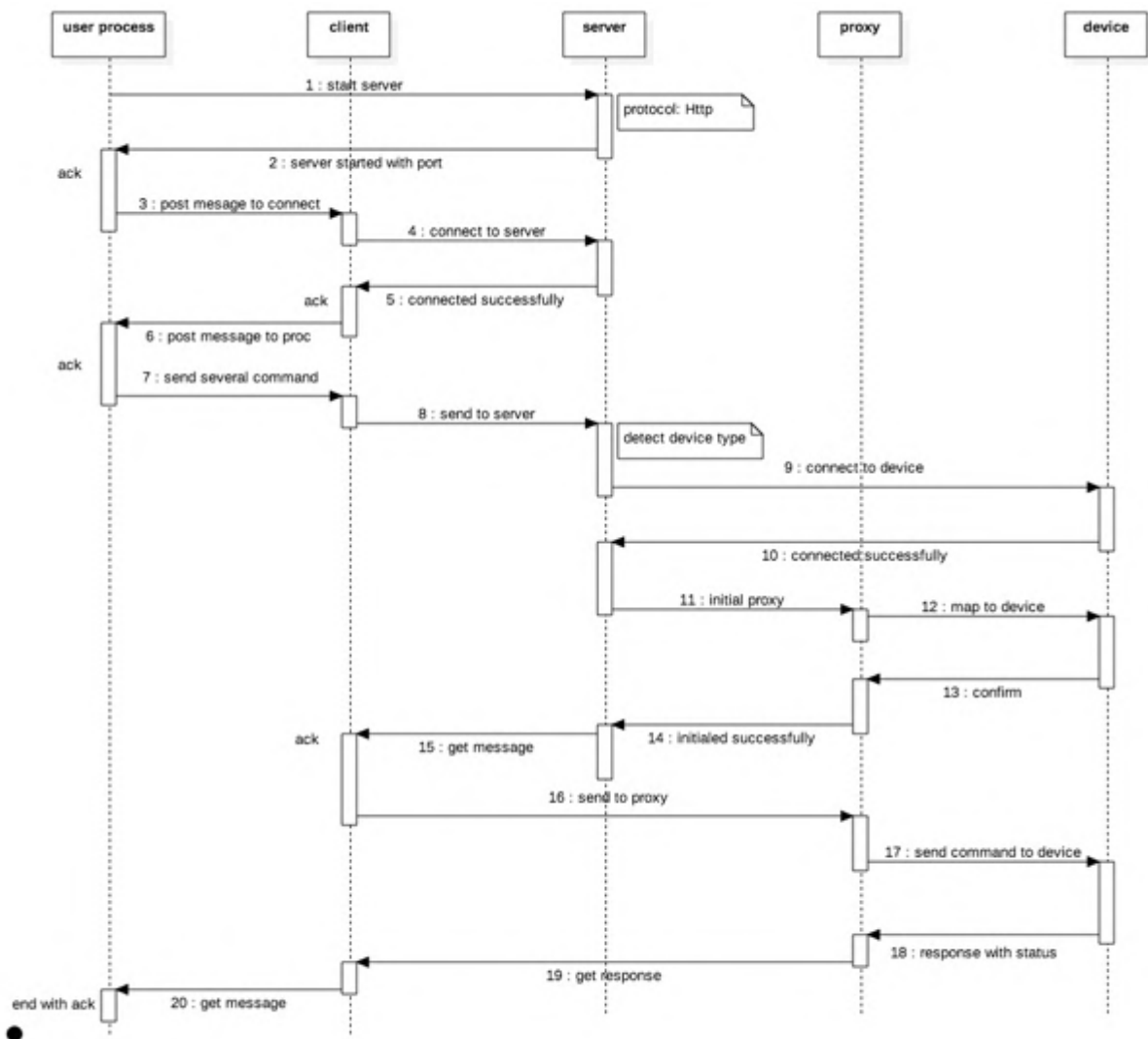
# Macaca Theory

- W3C WebDriver Wire Protocol
- Node.js 成为首要技术选型

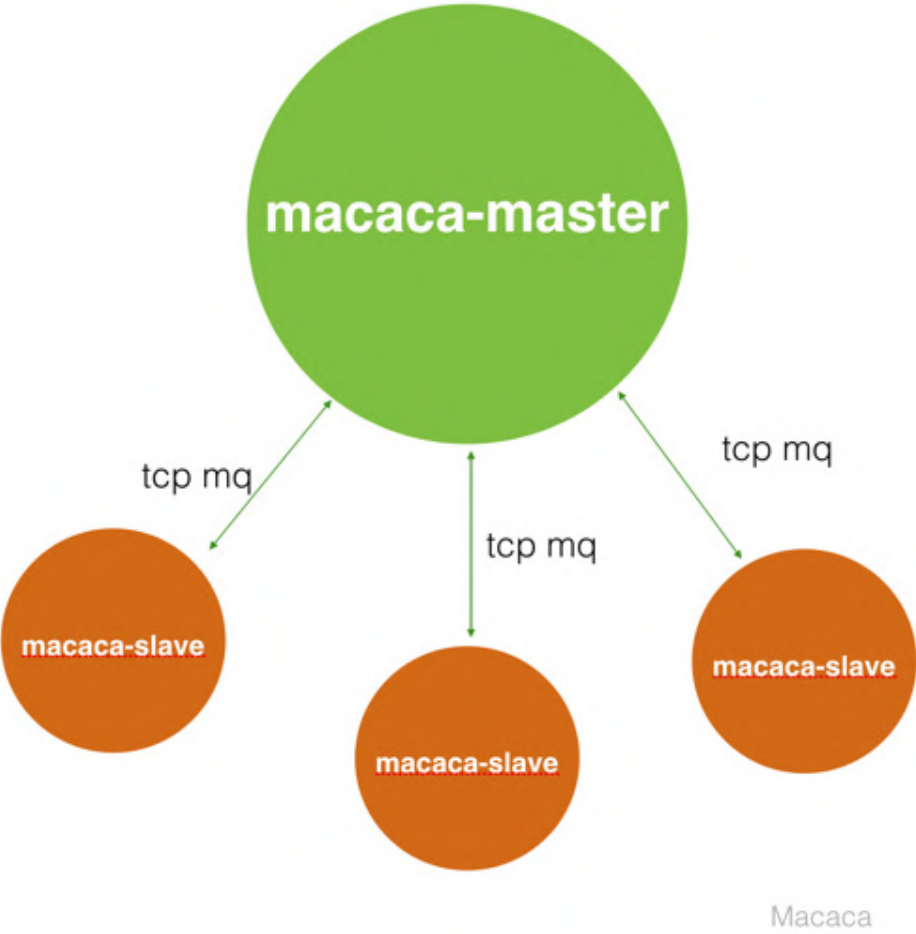
- 一体化的测试体验
- 可定制化和可扩展的 API
- 0配置



# Device Proxy



# Continuous Integration

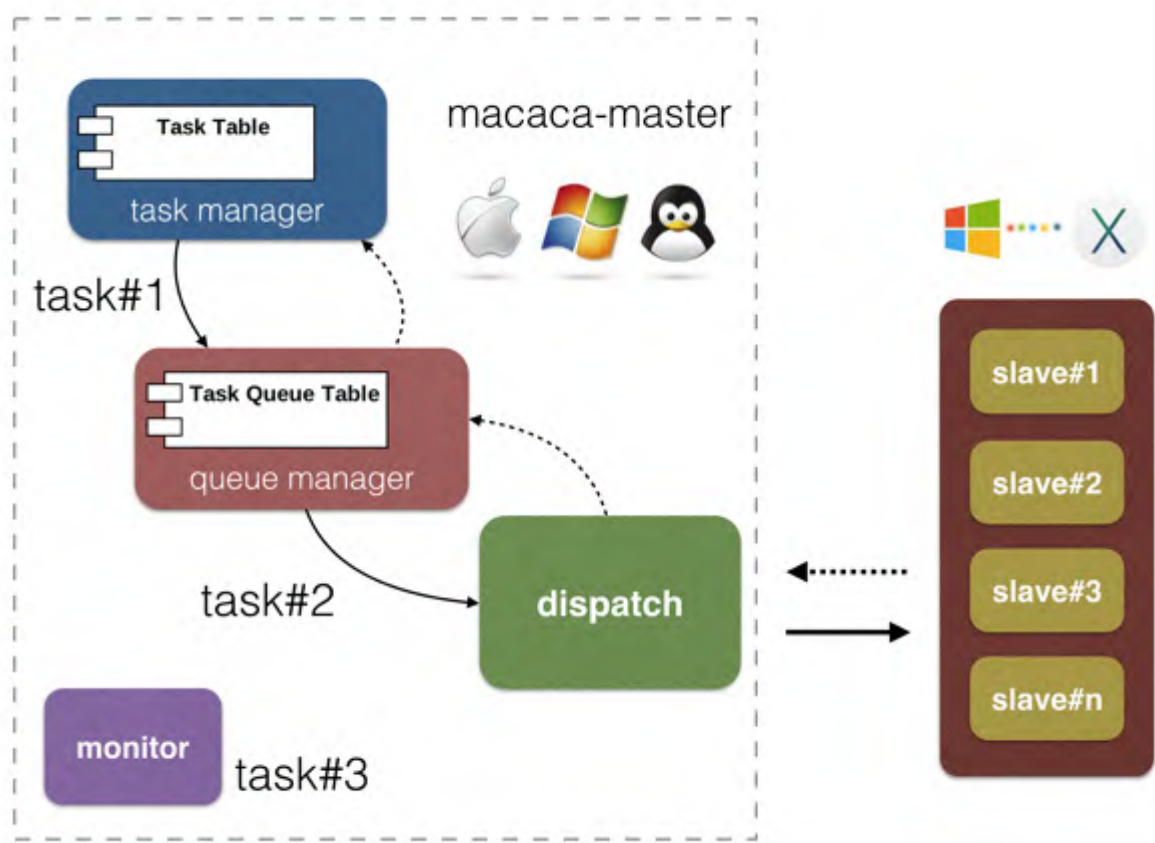


# macaca-master

- 并发任务
- 节点管理
- WEB平台集成
- 沉淀数据、报表
- Docker Deploy



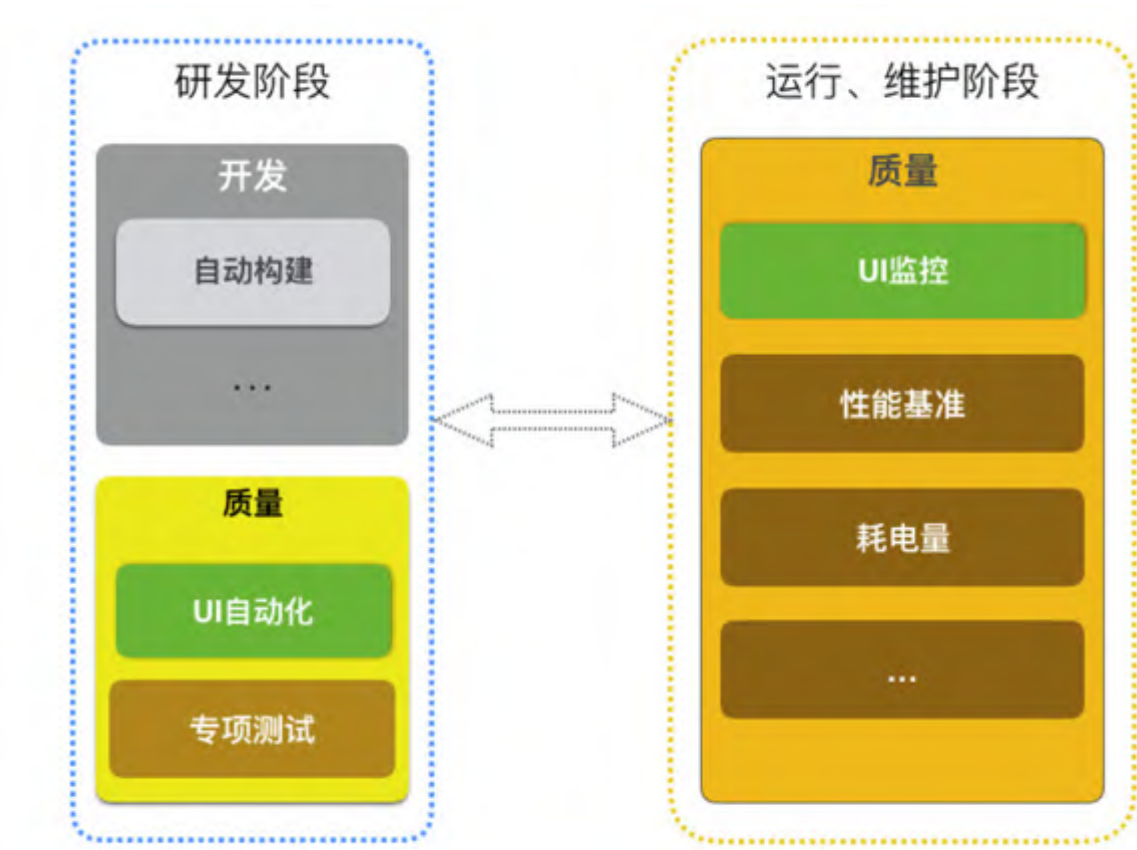
- 实现进程控制
- 处理数据存档
- 实现任务调度
- 调度策略

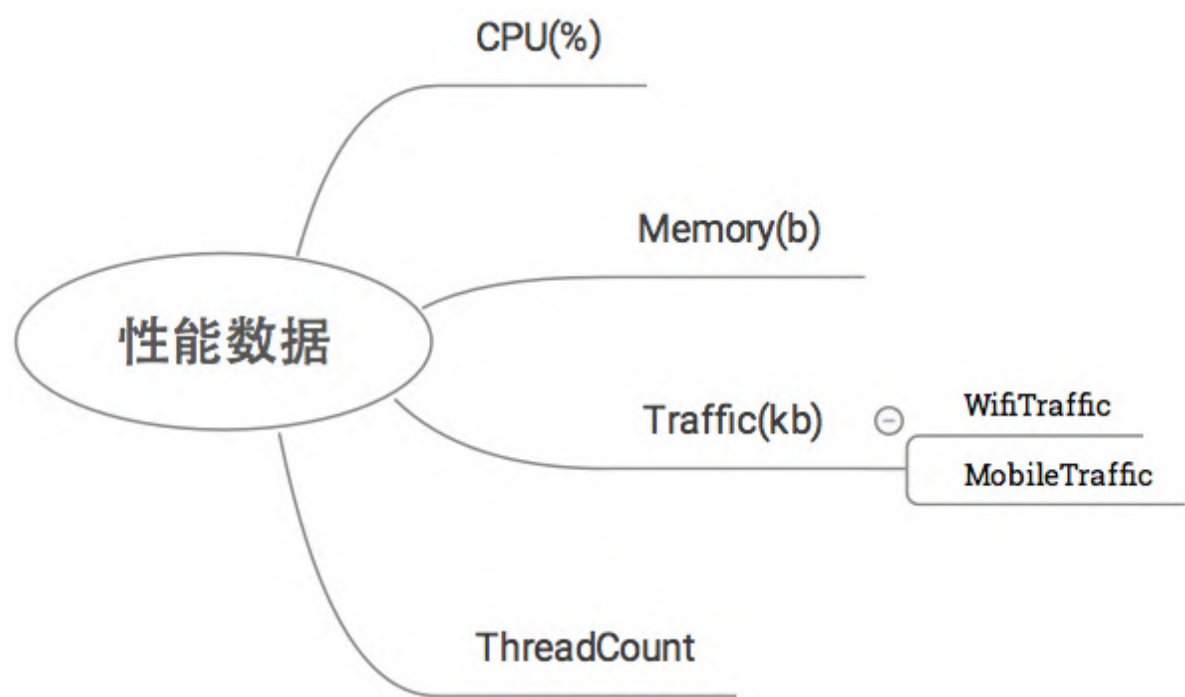




# macaca-slave

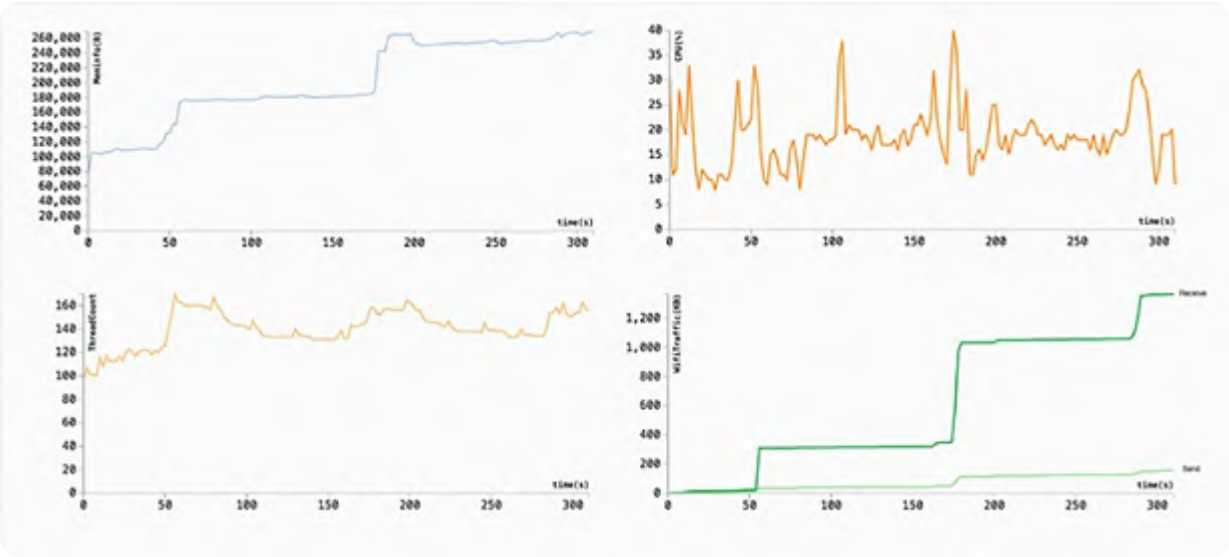
- 配置管理
- 测试框架集成
- slave条件负载



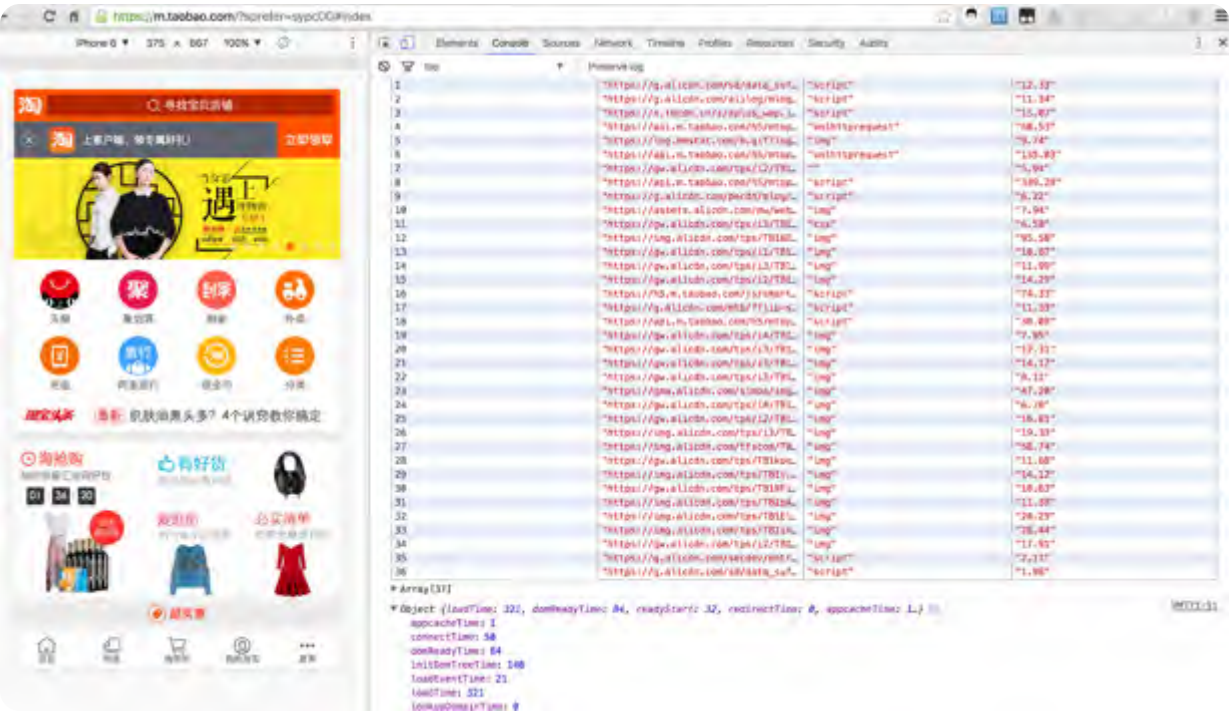


# Performance Pin

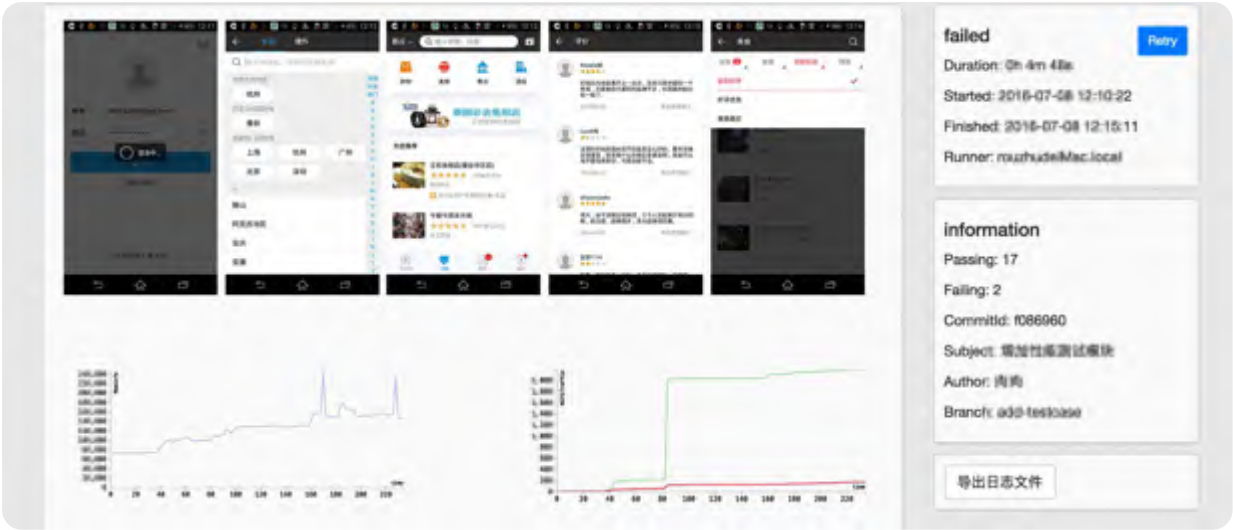
# Native Performance

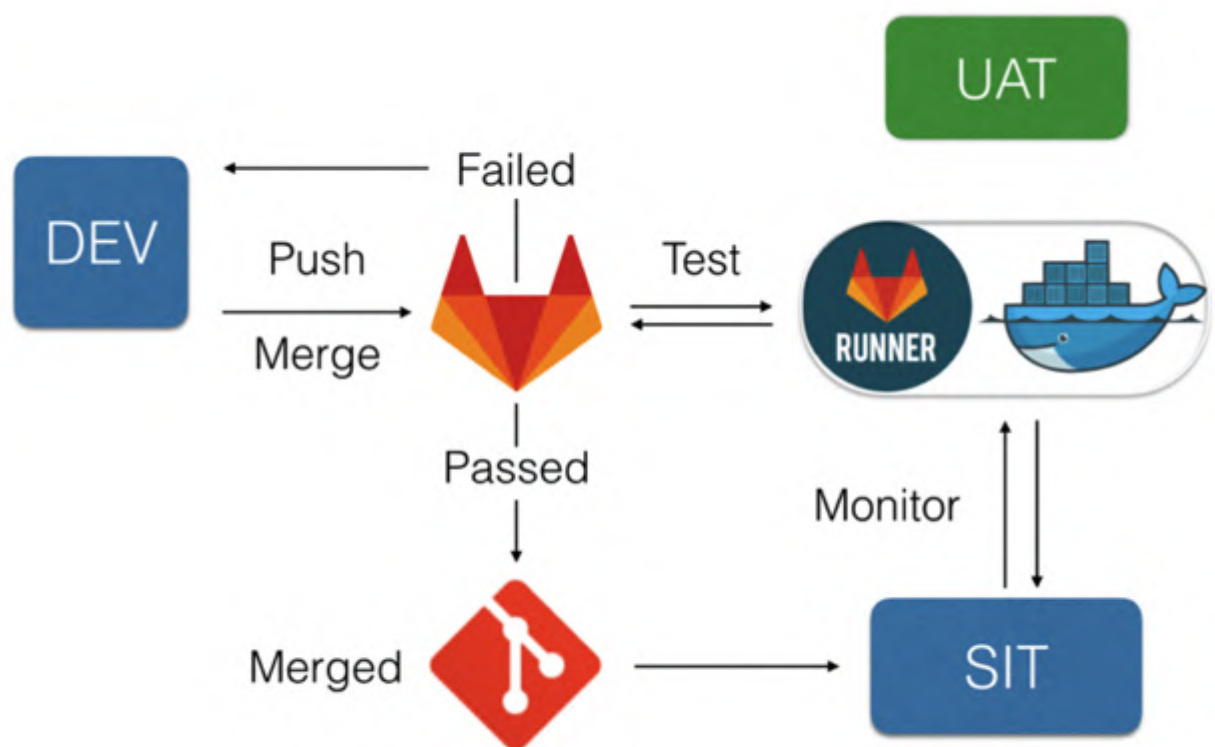


# WEB Performance







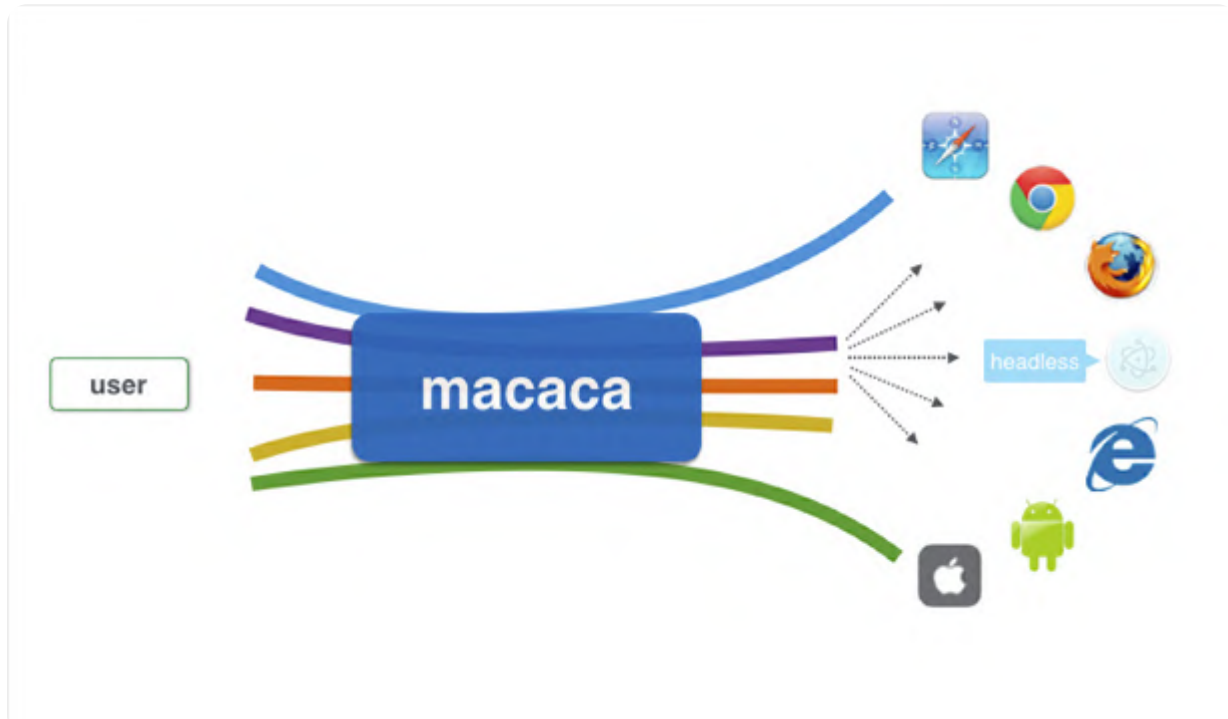


# Macaca Enables Us

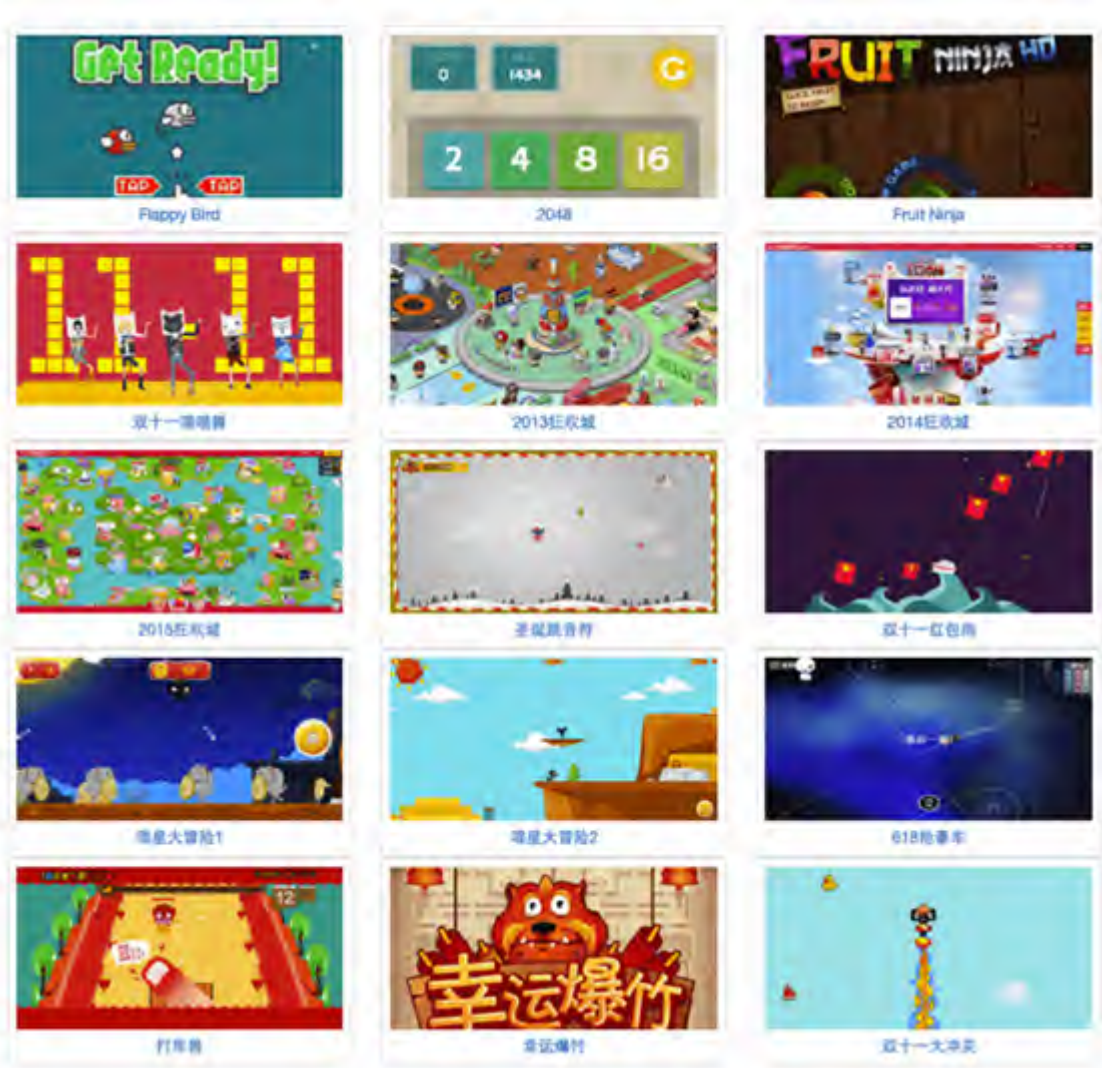
# Multi-lang



# Full End Stack



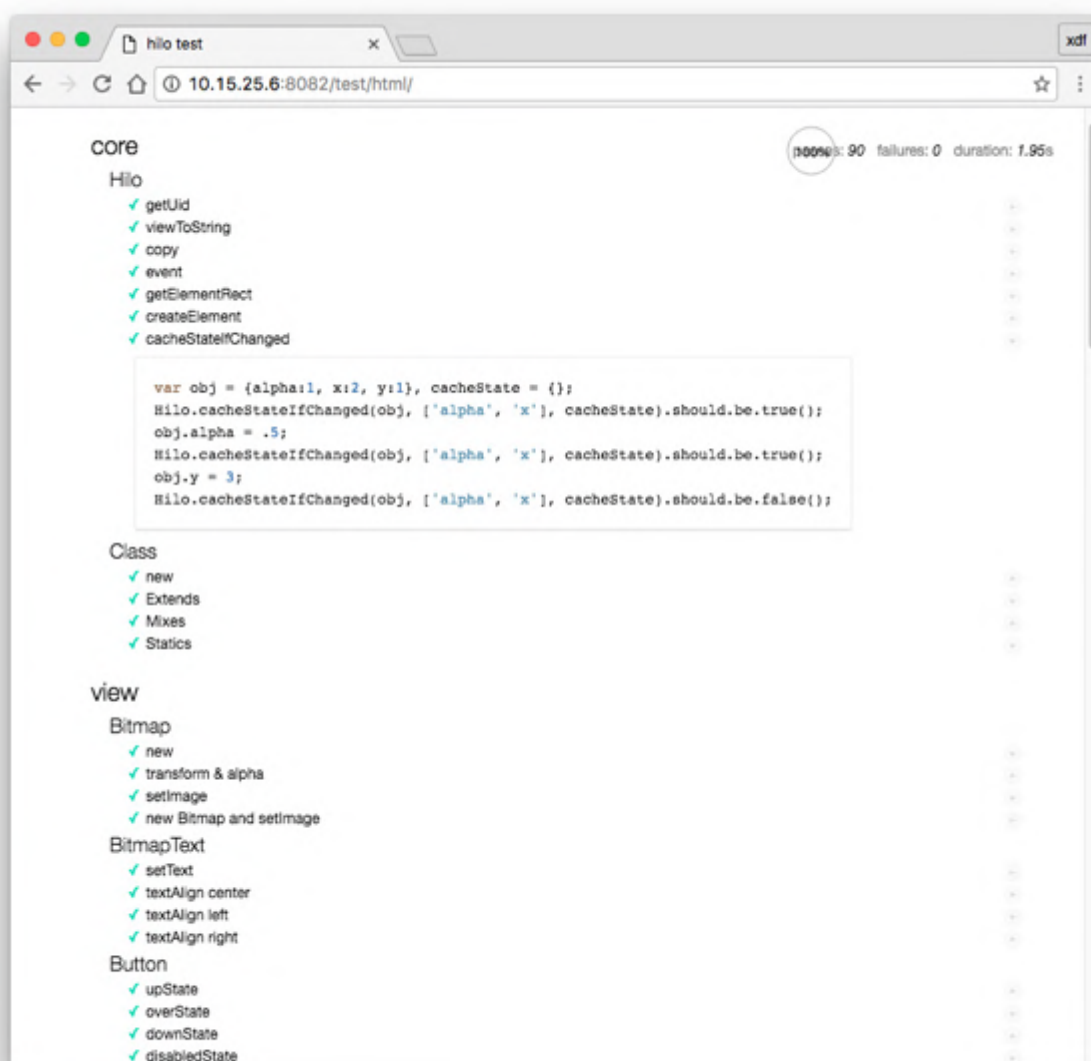
# Hilo



```
Last login: Wed Aug 17 11:21:45 on ttys002
berton@BertondeMacBook-Pro ~/workspace/git/github/Hilo <uitest>
$ npm t_
```

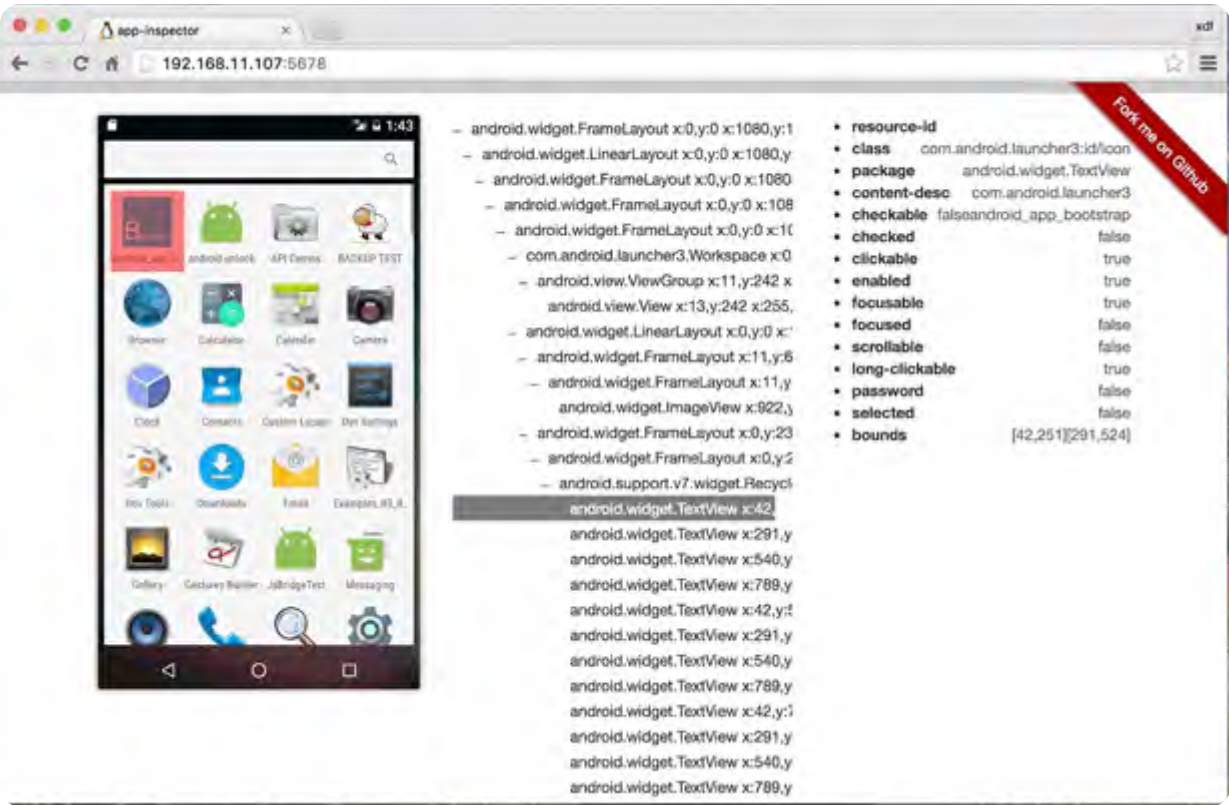
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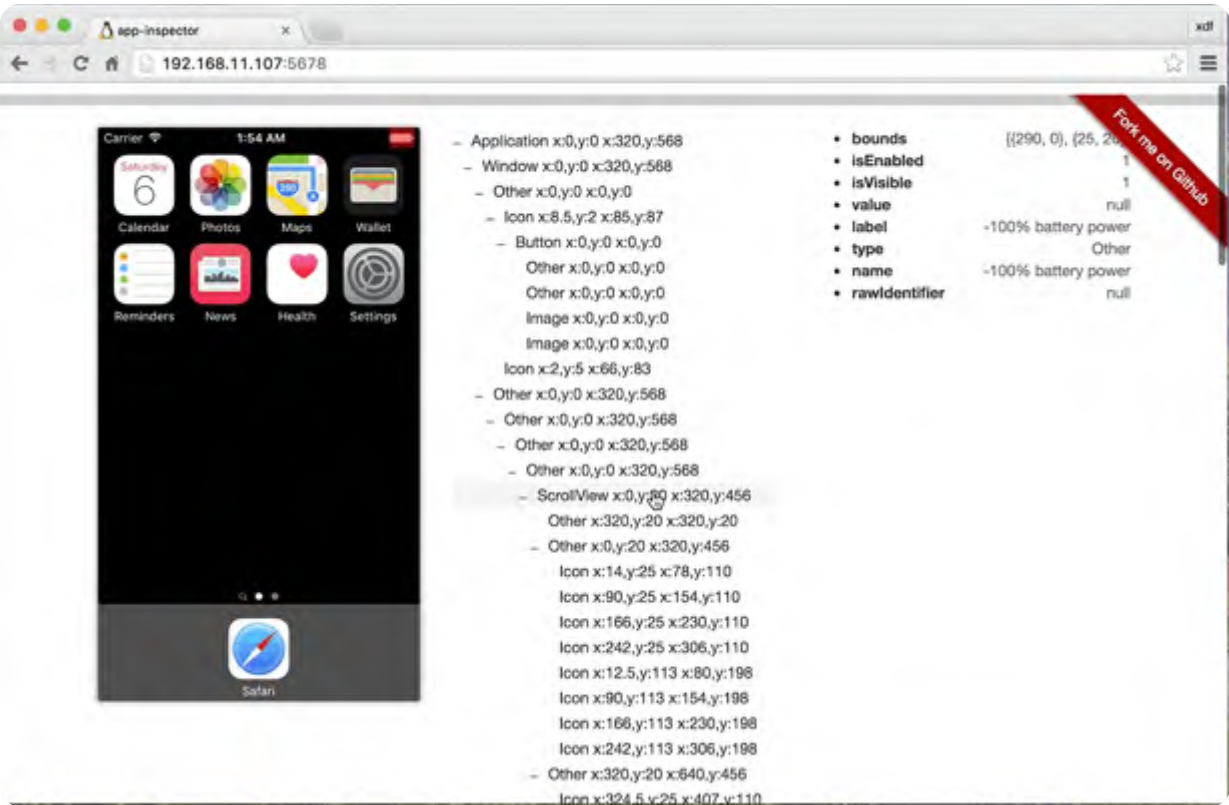






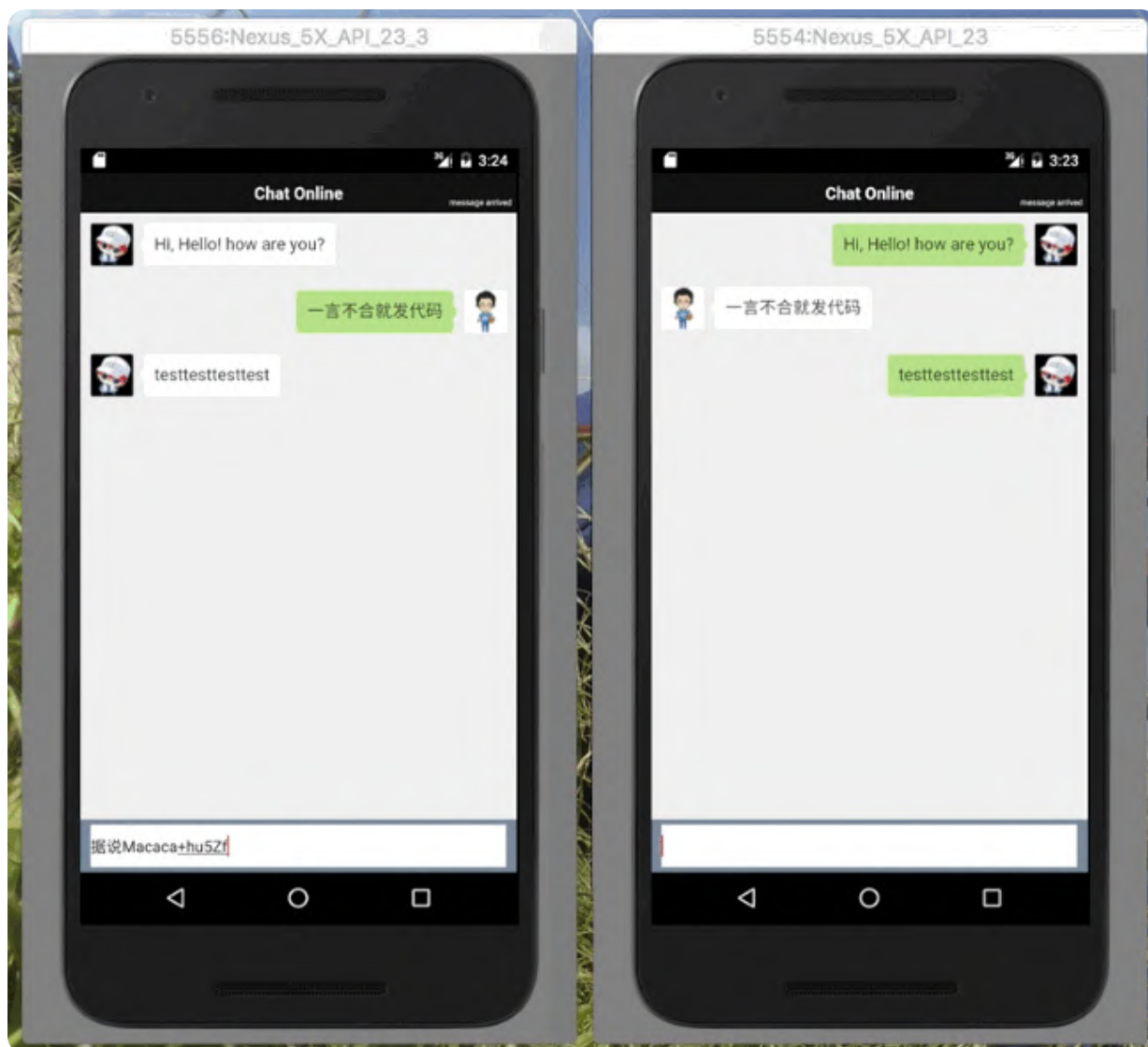
# Inspector





# Multi Driver

# chat with robot ...





# Open Source

[alibaba/macaca](#)

# Ecosystem

- Macaca Site
- Testerhome.com
- Cnodejs.org

# THANK YOU