



# WEEX Conf

## Weex + UI

飞猪 @ 侑夕

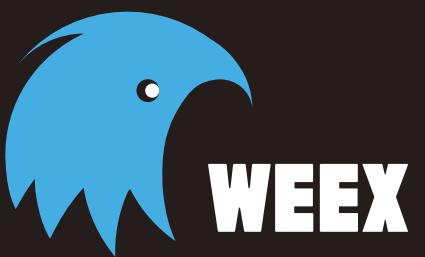
# 大纲

- Why Weex ?
- 飞猪 Weex 技术体系
- Weex Ui 的发展和开源
- Q ? A : End



Weex Ui

# Why Weex ?



# 想快和体验同时得到？



效率高

更新快

适配多端

富交互

性能**体验**

原生能力

Hybrid 开发

离线包体系

跨平台开发

## 增强 Web

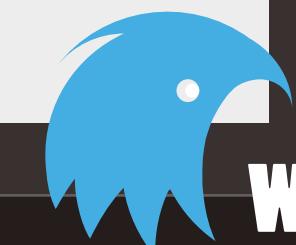
- 通过 Bridge 提供部分 Native 能力来提升 H5 体验
- 位置、相机、视频、导航
- Cordova、Ionic、Meteor

## 预加载

- 提前将资源文件下载，访问时路由拦截加载本地资源
- 秒出、动态更新、弱网可用
- Zcache、信鸽、九州

## 用 JS 写 Native

- 用 Web 的开发体验构建高性能、可扩展的 Native 应用
- 灵活高效、轻量、多端兼容
- Weex、ReactNative



# Why Weex ?

## 业务特点

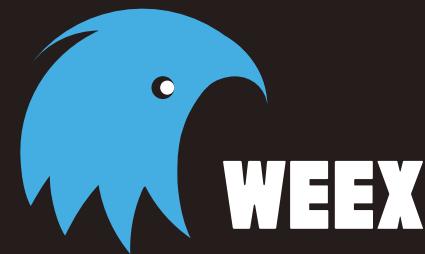
- 迭代快速度，要快速上线
- 景点和海外弱网使用，同时要体验良好
- 多容器接入，适配飞猪、手淘、支付宝

## Weex 给我们的收益

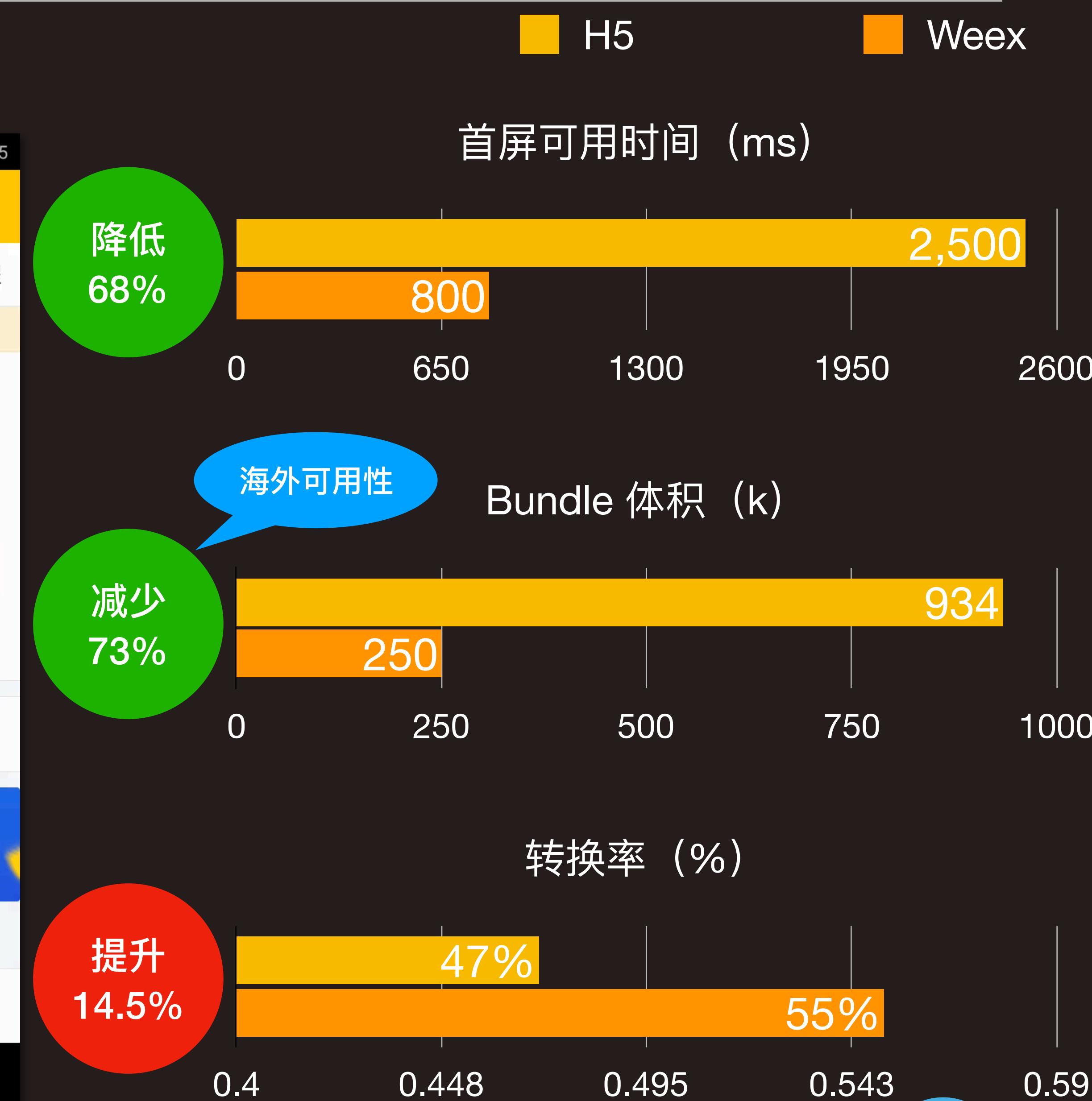
- Weex 环境下完全 Native 体验
- Bundle 资源大小较 H5 小很多
- 富交互体验、长列表性能好
- 上手快且简单、一次编写三端兼容



3 个人到 1 个人的过程

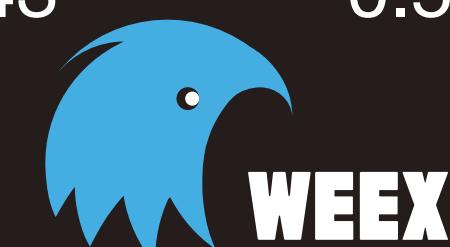


# Weex vs H5



Weex

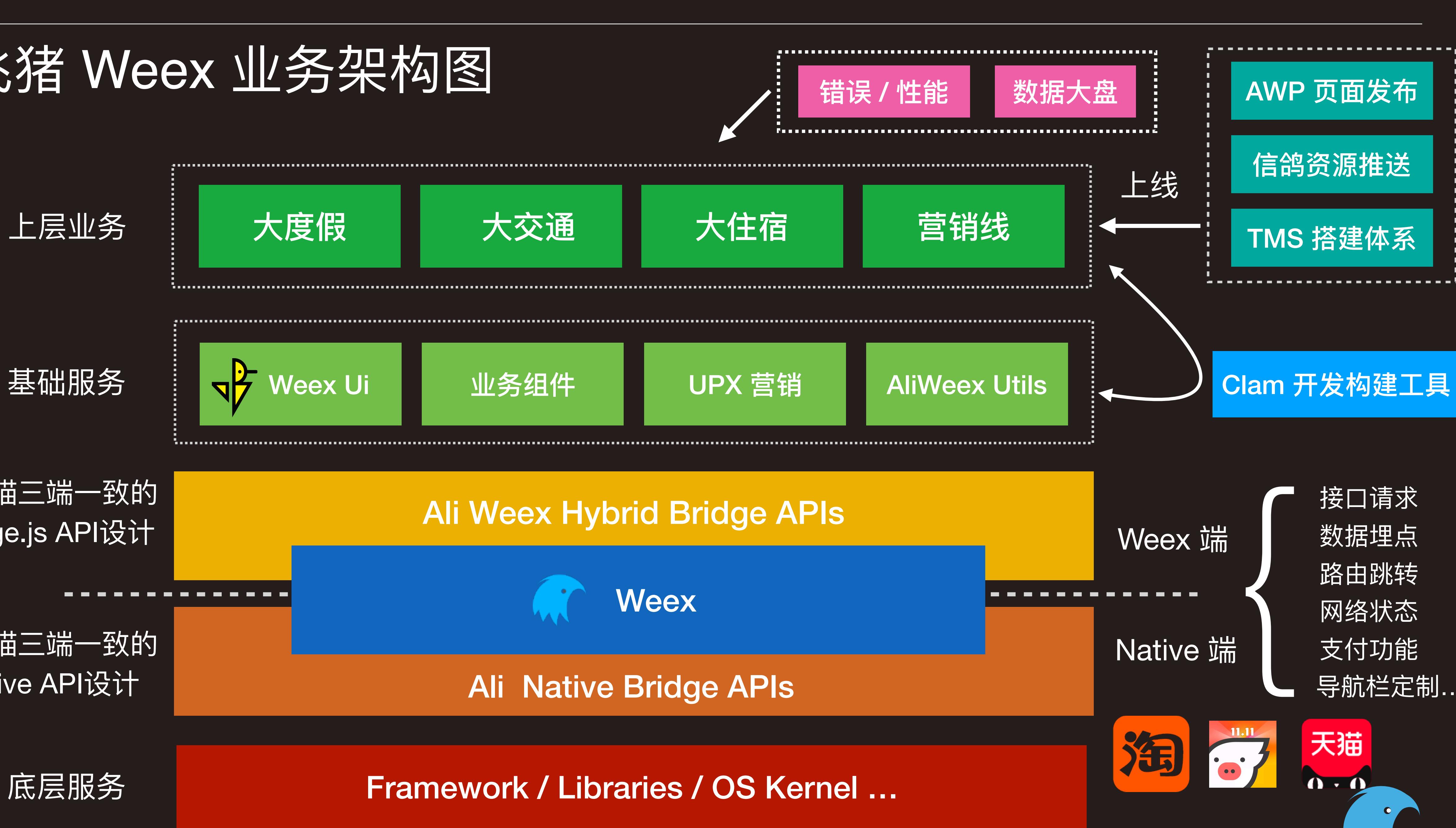
H5



# 飞猪 Weex 技术体系



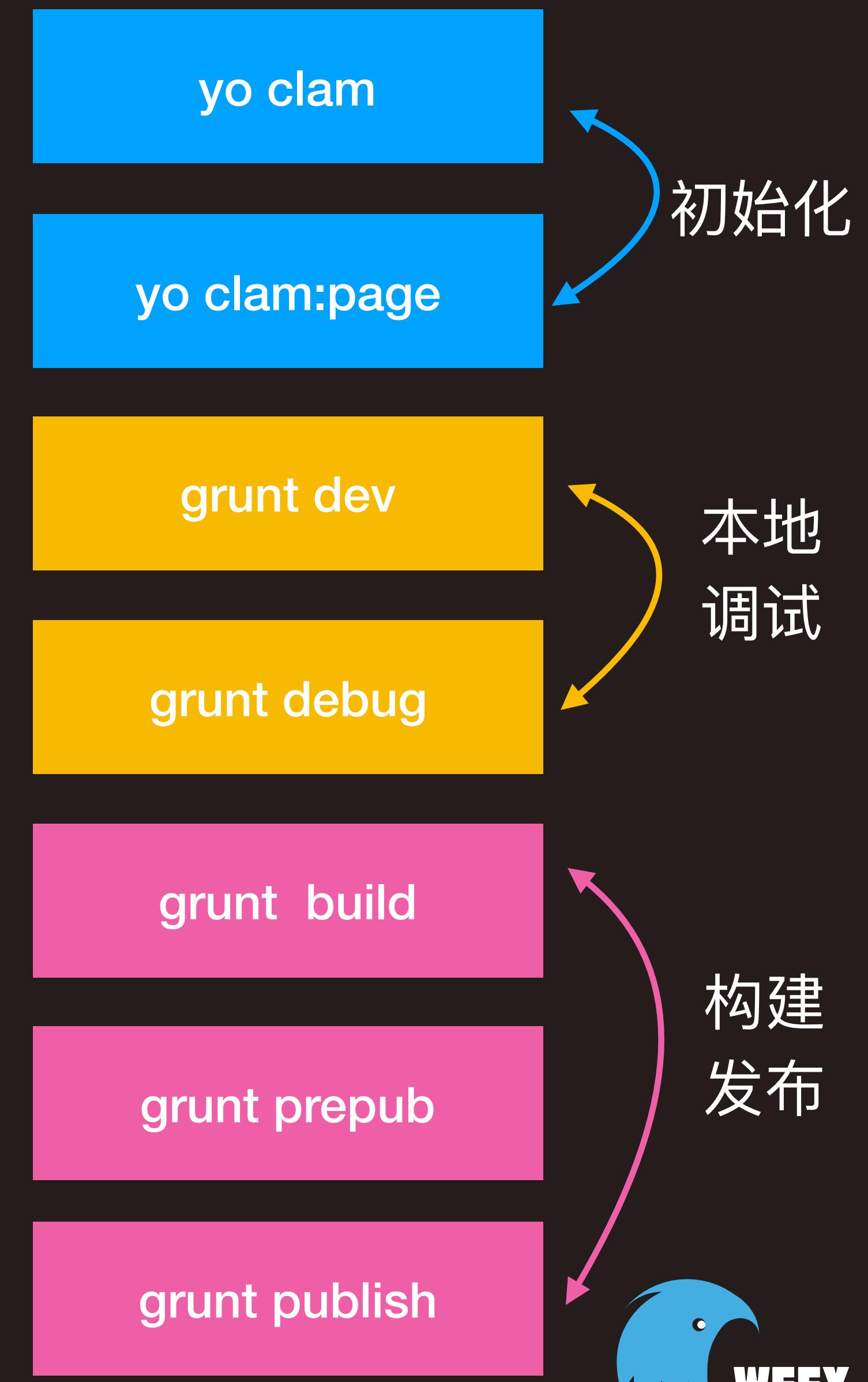
# 飞猪 Weex 业务架构图



wx-test > tree -L 4 -I node\_modules

```
.  
├── Gruntfile.js          // grunt 入口任务配置  
├── README.md             // 项目概述文档  
├── bower.json            // 项目 bower 依赖仓库配置  
├── build                 // 构建后的文件放置在该目录下  
├── doc                  // 文档  
├── grunt                // grunt 任务自定义配置，用于覆盖默认 grunt 任务配置  
│   ├── README.md  
│   └── devserver.js  
├── npm-shrinkwrap.json  
├── package.json          // 项目包配置，包括版本号、依赖 node 包等声明  
├── proxy                // 接口 mock 脚本目录  
│   └── interface.js  
└── src                  // 源码目录  
    ├── mods               // 存放页面间可抽象出来的公用模块  
    │   └── header  
    │       ├── img  
    │       └── index.vue  
    └── pages              // 存放 weex 页面  
        └── home  
            ├── detail.html  
            ├── detail.js  
            ├── detail.vue  
            ├── index.html  
            ├── index.js  
            └── index.vue  
                // weex 页面在浏览器等非 weex 环境下降级时的托底 HTML 承接页  
                // 入口 js 文件，引用对应 `index.vue` 文件初始化  
                // weex 页面级组件文件  
                // weex 页面在浏览器等非 weex 环境下降级时的托底 HTML 承接页  
                // 入口 js 文件  
                // weex 页面级组件文件
```

# Clam 开发工具



# Weex 页面如何在飞猪、手淘、支付宝进行多端投放？

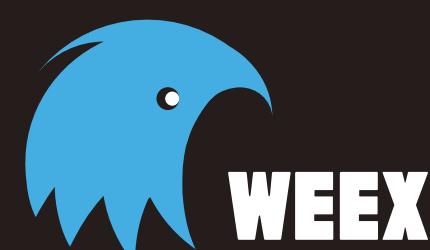
## 通过前端 URL 参数决定渲染为 Weex 还是 H5

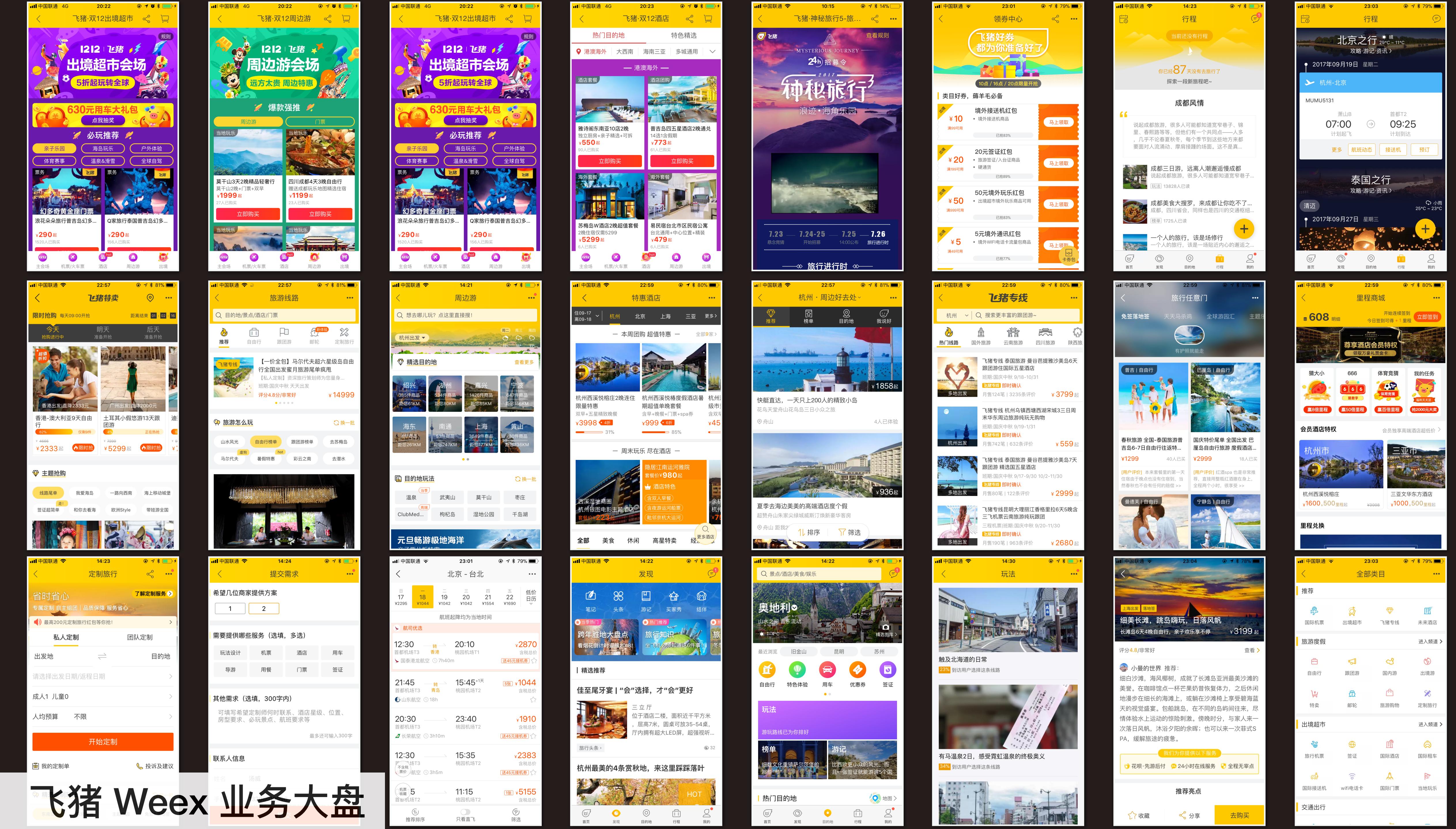


## 通过服务端返回内容决定渲染为 Weex 还是 H5

[https://market.m.taobao.com/tms/holiday2017/2018spring/2018springfestival?wh\\_weex=true](https://market.m.taobao.com/tms/holiday2017/2018spring/2018springfestival?wh_weex=true)

客户端发现带有此参数，会请求前面地址，假如发现响应的 mime type 为 application/javascript，则使用 Weex 渲染返回的内容，否则用 WebView 渲染





飞猪 Weex 业务大盘

# 什么业务适合用 Weex ?

营销业务

首页、频道

搜索列表

正向流程

简单详情

富交互页面

展示类 项目优先  
重构/新项目 优先  
深度垂直类目可尝试



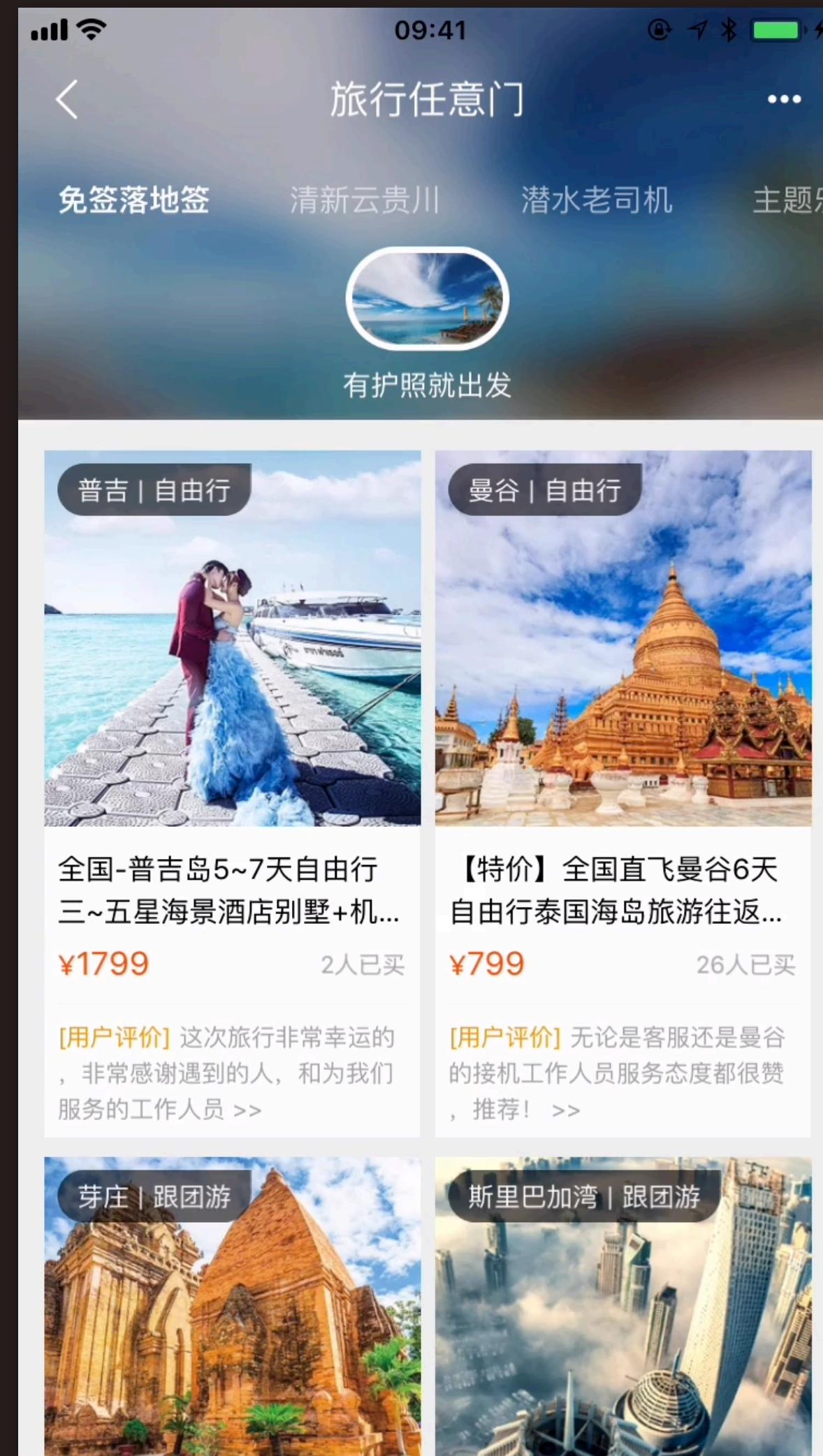
# Weex 不适合复杂场景？



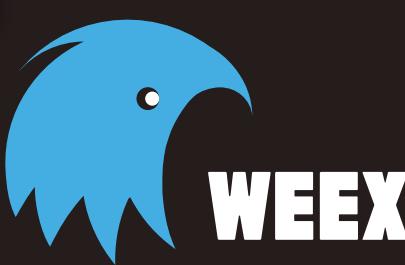
超长列表渲染



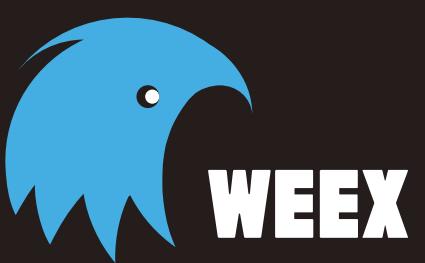
复杂业务逻辑场景



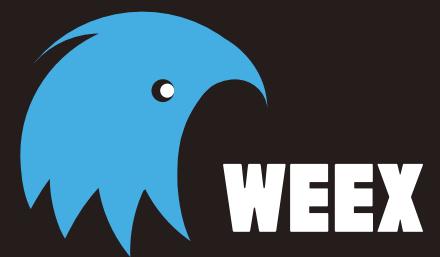
富交互场景



以上，有持续沉淀？可快速生产吗？



# Weex Ui 的发展和开源

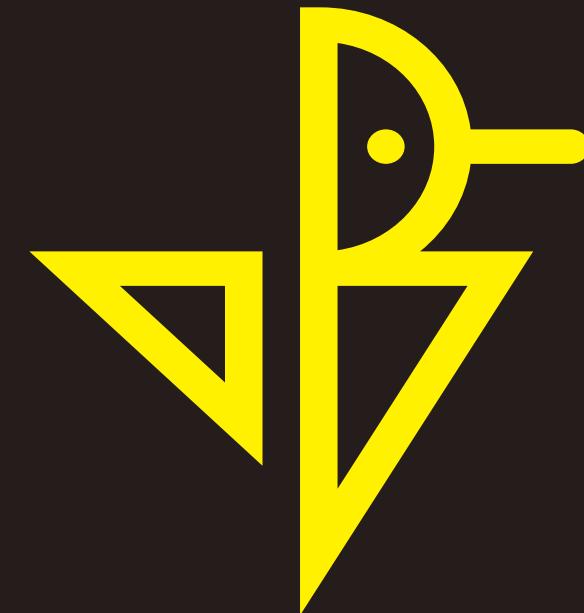


# 为什么要建立 Weex UI 组件库体系？

- 在引入 Weex 初期，通过 Weex UI 让未接触 Weex 的同学对其编写有借鉴作用
- 提炼业务中的公共组件，便于直接引用，提高大家开发效率
- 业务规范、视觉规范、最佳实践的及时同步
- 将 Weex 业务中的疑难杂症通过组件封装，对外只暴露简单逻辑



# Weex Ui 一览



## Weex Ui

A rich interaction, lightweight,  
high performance UI library.



可用手淘、飞猪、Playground、浏览器扫码

The screenshot shows a mobile application interface for managing UI components. It includes three main sections:

- Layout**: Contains icons for Button, Cell, EpSlider, LightBox, Overlay, Popup, Result, and SlideNav.
- Navigator**: Contains icons for Minibar, TabBar, and TabPage.
- DateEntry**: Contains an icon for Checkbox.

众多  
富交互组件

同时  
兼容3端

统一  
视觉交互

内部  
实践一年

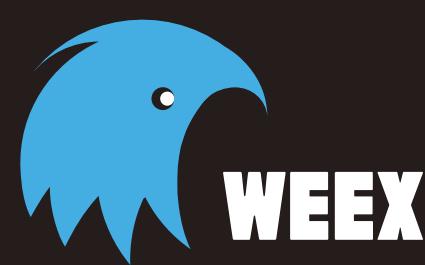


alibaba/weex-ui

npm i weex-ui -save



# Weex UI 怎么来的？



# Weex Ui 文档

组件说明、使用规则  
Demo、详细使用、升级文档



Weex Ui

wxc-popup tnpm 2.0.17 downloads 724

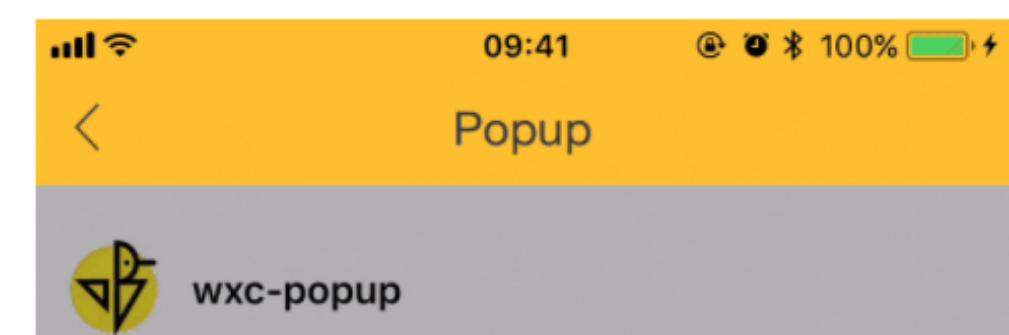
👤 侑夕 [tw102972@alibaba-inc.com](mailto:tw102972@alibaba-inc.com)

Weex版本的popup组件，支持上下左右四个方向面板弹出。

- 规则

- 从顶部或底部浮出的模态，点击蒙层进行关闭
- 支持使用者主动关闭popup,譬如this.\$refs.wxcPopup.hide();
- 常用于筛选面板组件的包裹组件

## Demo预览



# 通过组件搭建你的 Weex 页面

wxc-result

错误结果页组件



wxc-searchbar

搜索栏组件

wxc-tab-page

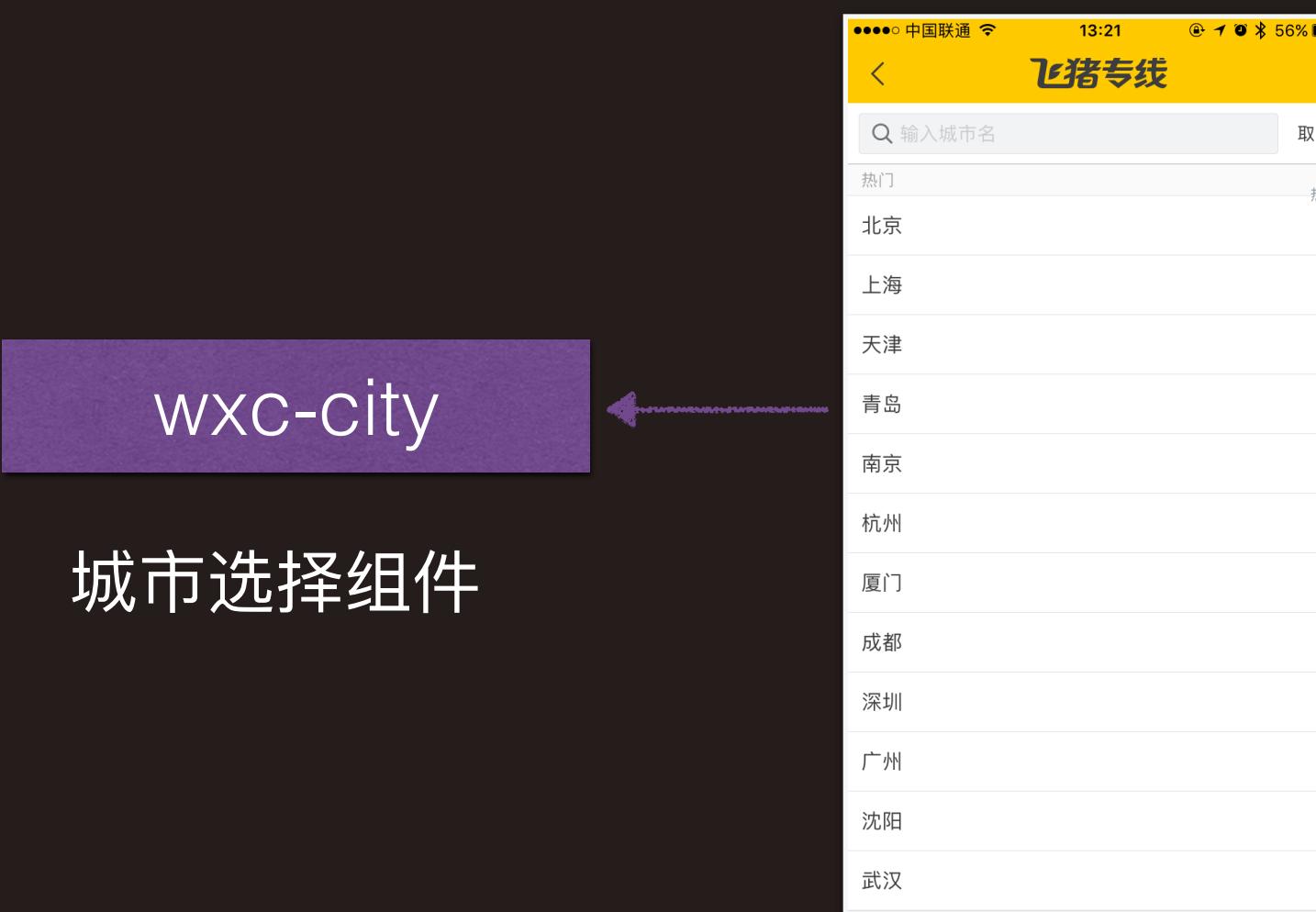
页面切换组件

wxc-loading

加载提示组件

wxc-city

城市选择组件



your-item

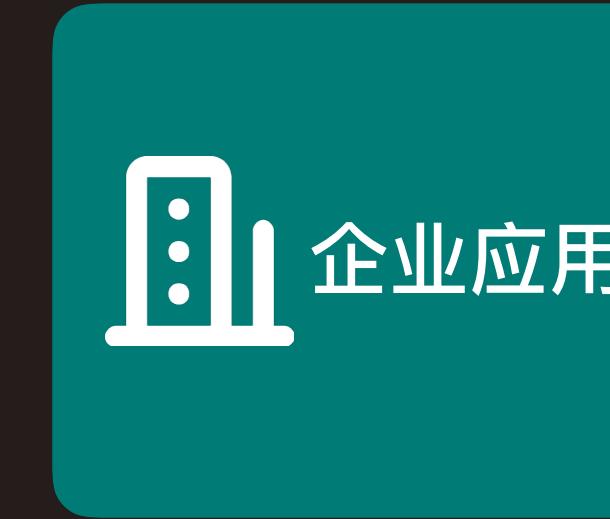
自定义商品组件

wxc-rich-text

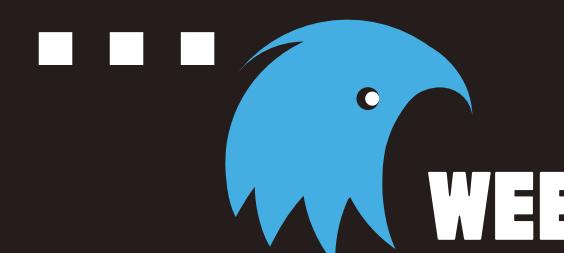
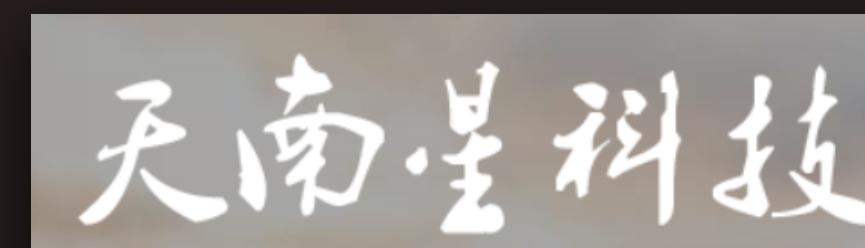
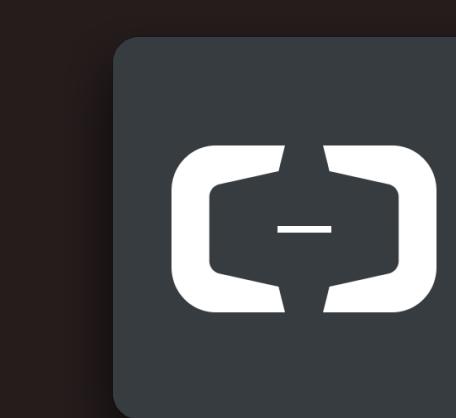
富文本规范组件



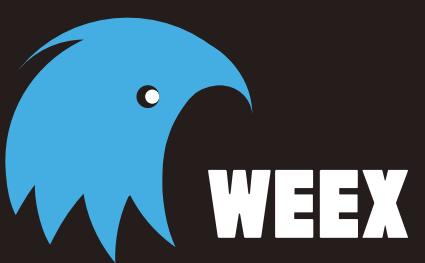
# Weex UI 只适合电商业务？



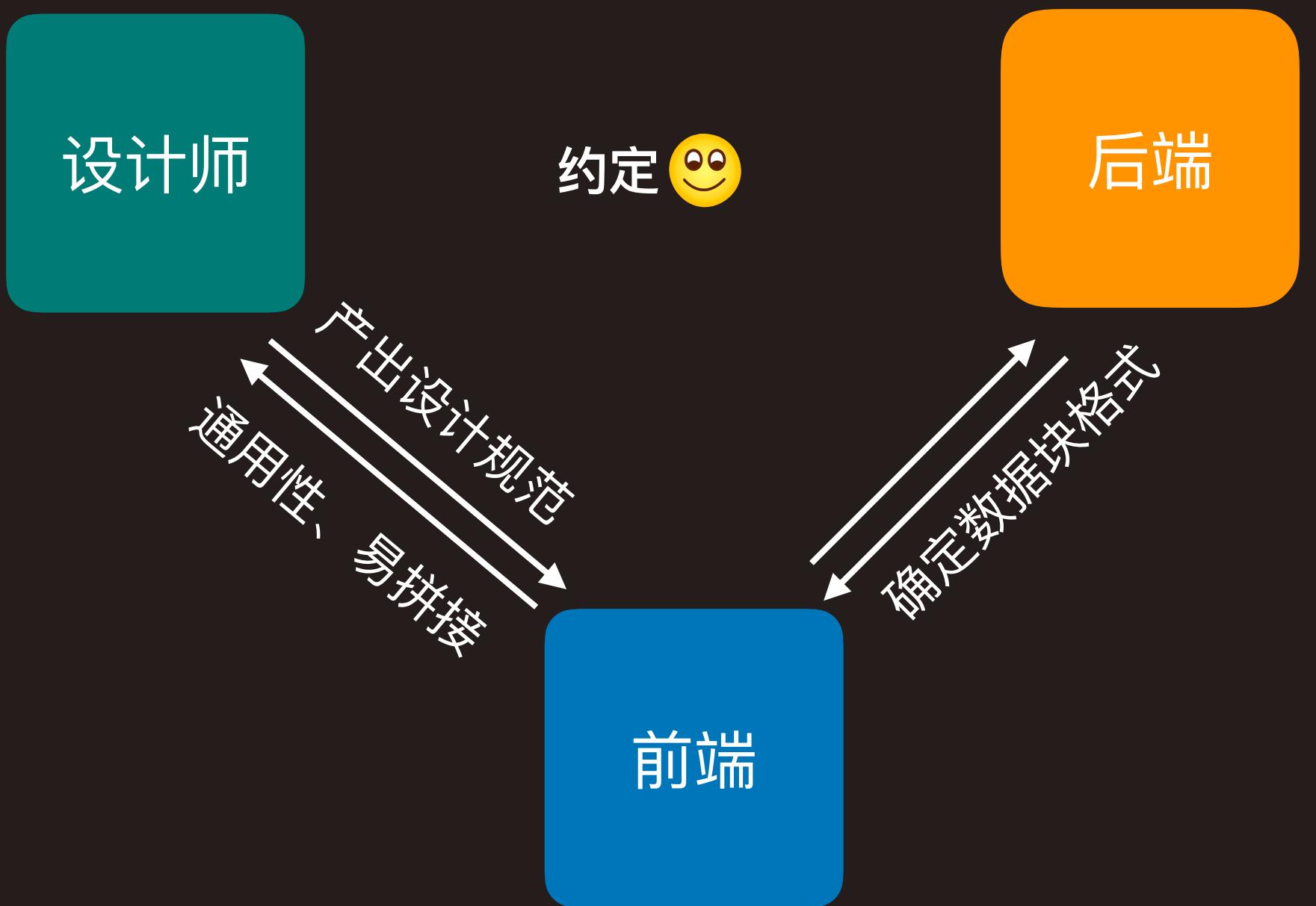
他们都在使用 Weex UI



除了基础库，在 Weex UI 层还可以做什么？



# Weex 业务组件化



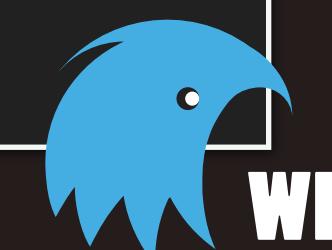
自由 飞猪特卖 上海直飞往返高松5日  
自由行日本香川小豆岛四国暑假旅游  
【满额立减】满999减30 满1999减60 ....  
飞猪专线 纯玩 即时确认  
月售132笔 694条评价      ¥ 699 起

问 是不是交完这些钱就不用叫别的伙食费和住宿费什么的了  
嗯呢，对的

支撑任意业务模块投放到任意  
页面中任意位置的能力

```
<choice-item :item="ITEM"></choice-item>
```

```
ITEM: {  
    'comment': '27条评论',  
    'currPrice': '699',  
    'itemDes': [{"type": 'tag'...}, {"theme": 'black'...}],  
    'itemDesList': [{"theme": 'gray'...}],  
    'itemId': '544571323403',  
    'itemPic': '//img.alicdn.com/i8/TB1lhMRFXXXXcxXXXXhRTP.XXX_100940.jpg',  
    'jumpInfo': {  
        'jumpH5Url': 'url',  
        'jumpNative': 'false'  
    },  
    'sold': '月售88笔',  
    'tripTagList': [{"src": 'url'...}, {"type": 'tag'...}, {"type": 'tag'...}],  
    'mixInfo': [{"theme": 'gray'...}, {"theme": 'gray'...}],  
    'askAll': {"answer": '嗯呢，对的'...}  
}
```



# Weex 业务组件化

## 业务组件化的思路

- 将相似业务的组件进行梳理、归纳、坑位可配置化
- 进行组件抽离，并按照统一规范进行编写
- 90% 逻辑组件内部处理，使用者开箱即用

视觉规范

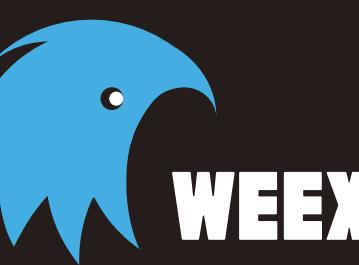
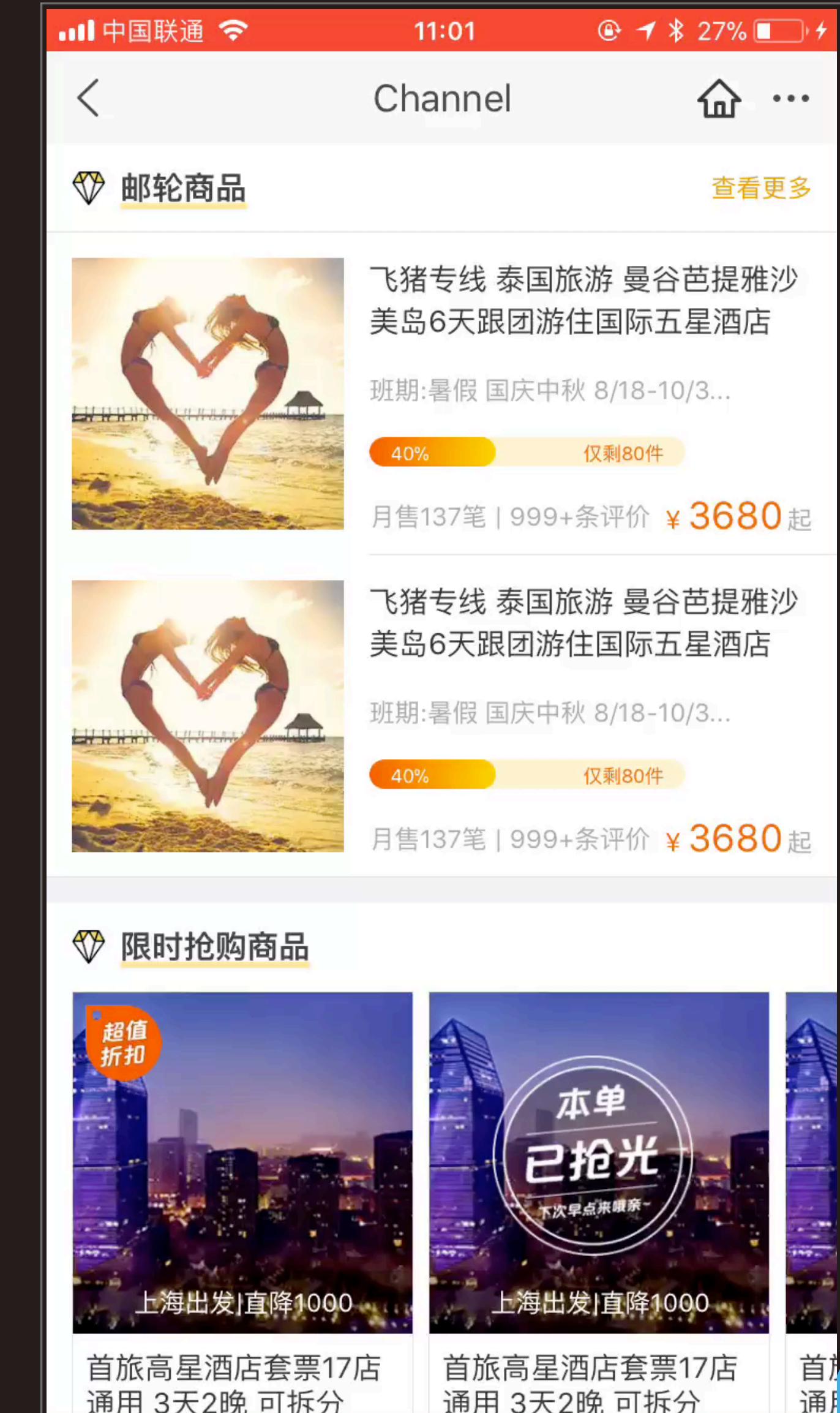
业务包

服务类

半自动



场景示例 (可用手淘、飞猪扫码)



# 可以自动化测试 Weex 吗？

The image shows a Mac terminal window and an iPhone 6 simulator side-by-side.

**Mac Terminal (Left):**

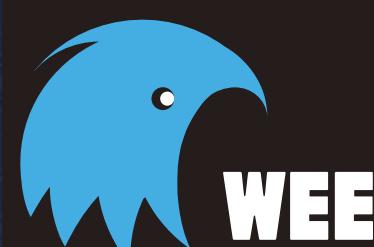
```
1. guake: npm run ios (node)
guake: npm (node)      guake: ~/www/weex-q (z...
9461:250474] IDETestOperationsObserverDebug: Writing diagnostic log for test session to:
/Users/Tw93/Library/Developer/Xcode/DerivedData/XCTestWD-csksfttfbygcrbamoobfasi
ylmgb/Logs/Test/9AD6BE73-8068-429A-94F9-D3F29C292AA3/Session-XCTestWDUITests-201
7-08-11_153323-0E0mm1.log

>> xctest-client.js:173:14 [master] pid:9449 please check project: /usr/local/li
b/node_modules/macaca-ios/node_modules/xctestwd/XCTestWD/XCTestWD.xcodeproj
>> xctest-client.js:172:14 [master] pid:9449 2017-08-11 15:33:23.705 xcodebuild[9461:250422] [MT] IDETestOperationsObserverDebug: (147B6134-DE74-41DB-B3B5-92191
4FD9727) Beginning test session XCTestWDUITests-147B6134-DE74-41DB-B3B5-921914FD
9727 at 2017-08-11 15:33:23.705 with Xcode 8E3004b on target <DVTiPhoneSimulator
: 0x7fd8c66127c0> {
    SimDevice: SimDevice : iPhone 6 (29052C2F-5D1D-4AE1-96FF-20DD93C
4E5A2) : state={ Booted } deviceType={ SimDeviceType : com.apple.CoreSimulator.S
imDeviceType.iPhone-6 } runtime={ SimRuntime : 10.3.1 (14E8301) - com.apple.Core
Simulator.SimRuntime.iOS-10-3 }
} (10.3.1 (14E8301))

>> xctest-client.js:173:14 [master] pid:9449 please check project: /usr/local/li
b/node_modules/macaca-ios/node_modules/xctestwd/XCTestWD/XCTestWD.xcodeproj
>> proxy.js:55:14 [master] pid:9449 Proxy: /wd/hub/session:POST to http://localhost:8001/wd/hub/session:POST with body: {"desiredCapabilities": {"bu...
>> proxy.js:83:20 [master] pid:9449 Got response with status 200: {"sessionId":n
ull,"status":...
>> responseHandler.js:47:14 [master] pid:9449 Send HTTP Respone to Client[2017-0
8-11 15:34:47]: {"sessionId":"e37d14cd-4f6e-48d8-80b9-e25910c029a4","status":0,"
value":{"\"deviceName\":\"iPhone 6\", \"p..."}}
```

**iPhone 6 Simulator (Right):**

The simulator screen shows the Taobao app interface. A location permission dialog is overlaid, asking "Allow '手机淘宝' to access your location while you use the app?". The dialog has "Don't Allow" and "Allow" buttons. The background shows a promotional banner for Pampers diapers and various shopping categories like Juhu (聚划算), Imported Goods (进口), Supermarket (超市), and Classification (分类).



# Weex 代码可以转换吗？

The screenshot shows a browser window displaying a Weex component. The left side of the screen shows the raw Weex code, while the right side shows the rendered user interface.

**Left Side (Weex Code):**

```
1 <!-- Created by Tw93<tw93@qq.com> on 2017/02/06. -->
2 <!--A Cell component test demo for we2vue,You can delete it -->
3 <template>
4   <div onclick="cellClicked" class="wxc-cell {{hasTopBorder &
  'cell-top-border'}} {{hasBottomBorder&& 'cell-bottom-border'}}
  {{hasMargin && 'cell-margin'}} {{hasVerticalIndent && 'cell-
  indent'}}" link="{{link}}>
5     <div if="{{label}}>
6       <text class="cell-label-text">{{label}}</text>
7     </div>
8     <div>
9       <text class="cell-content">{{title}}</text>
10    </div>
11    <image src="{{arrowIcon}}" class="cell-arrow-icon" if="
  {{hasArrow}}></image>
12  </div>
13 </template>
14
15 <style>
16
17   .wxc-cell {
18     width: 750;
19     position: relative;
20     flex-direction: row;
21     align-items: center;
22     padding-left: 24;
23     padding-right: 24;
24     background-color: #ffffff;
25   }
26   .cell-content {
27     font-size: 30;
28   }
29 </style>
30
31 <script>
32   const icon = require('./icon.base64.js');
```

**Right Side (Rendered UI):**

The rendered UI consists of a dark blue header bar with four yellow circular buttons labeled "default", "entry", "more", and "X". Below the header is a dark blue container area containing the Weex component. The component itself has a white background and displays the following text:

1 <!-- Click the button, A miracle will happen :) -->

The UI is a simple template with a title and an arrow icon.



# Weex 无障碍优化

让盲人在**最短的时间内**通过**最快的方式**找到自己想要的信息

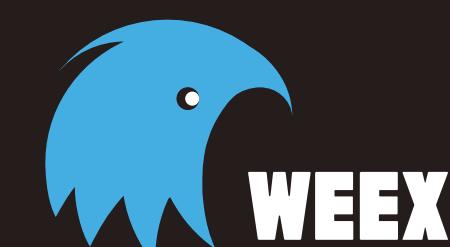
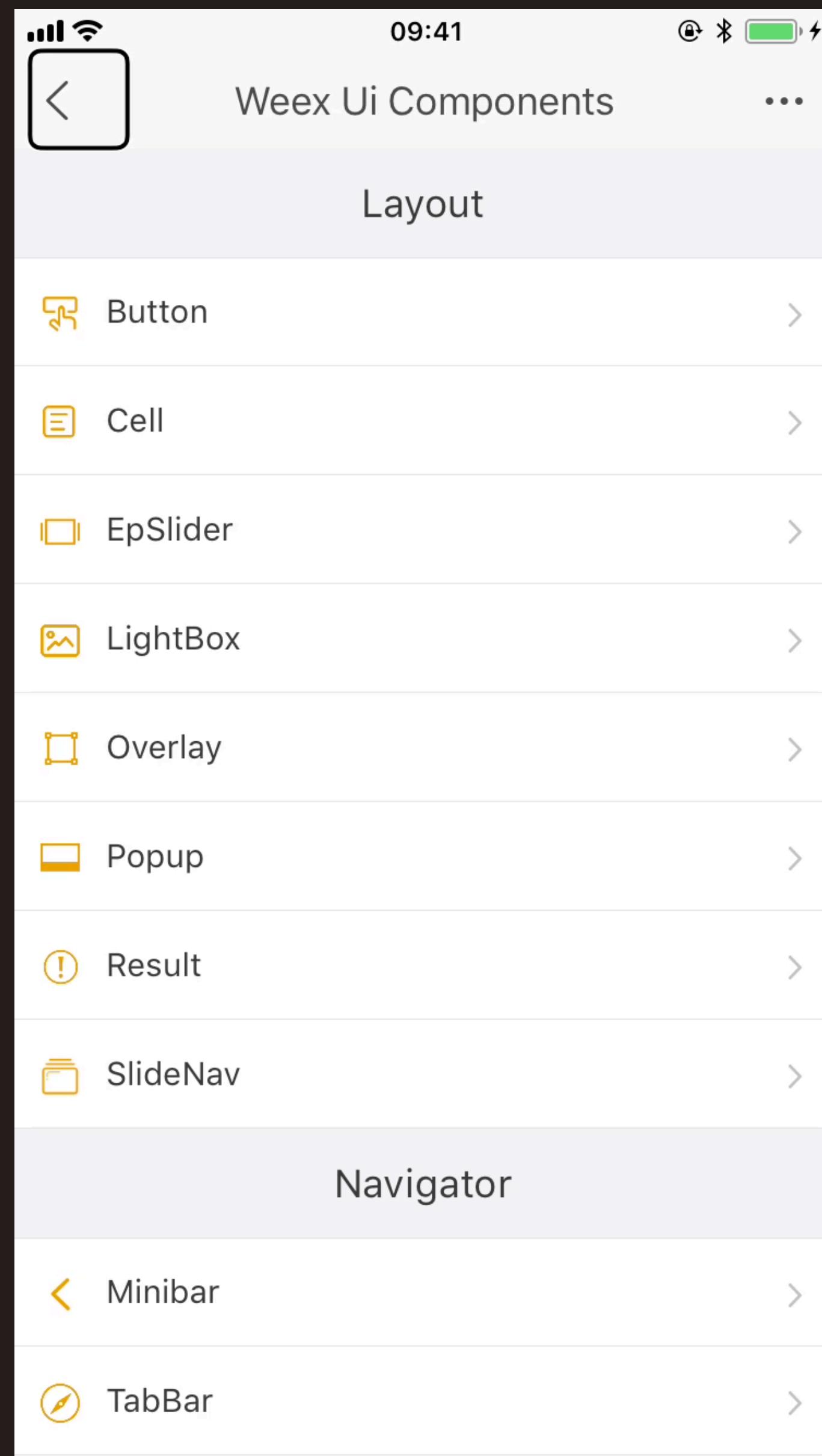
可感知性、可操作性、可理解性、鲁棒性

```
<template>
  <div class="root">
    <div :aria-hidden="true">
      <text>不想显示的内容</text>
    </div>
    <div class="wxc-simple-item"
        @click="itemClicked(url)"
        :accessible="true"
        :aria-label="${title},${price}元起">
      <image :src="image" class="item-image"/>
      <text class="item-text">{{title}}</text>
      <div class="price-num">
        <text class="yen">¥</text>
        <text class="price">{{price}}</text>
        <text class="postfix">起</text>
      </div>
    </div>
  </div>
</template>
```

设置不朗读

设置朗读焦点

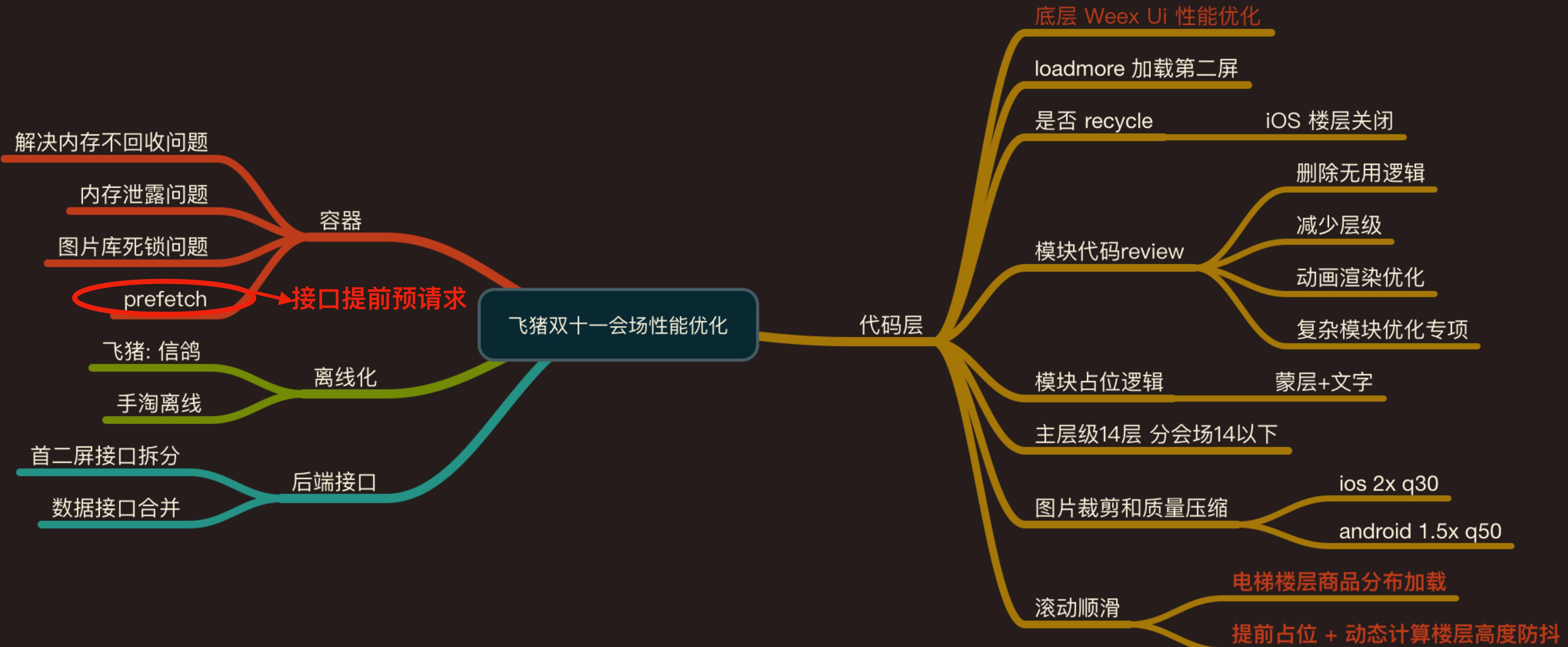
设置朗读内容



# 飞猪 Weex 双十一性能优化

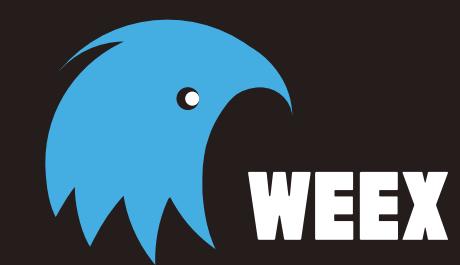


# 飞猪 Weex 双十一性能优化



最后，回到开源

<https://github.com/alibaba/weex-ui>



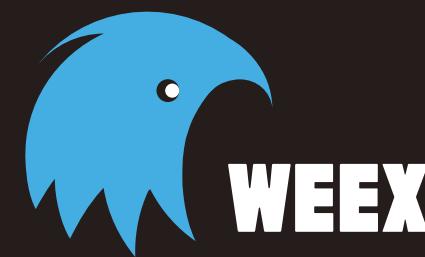
# Weex UI 开源

## Why ?

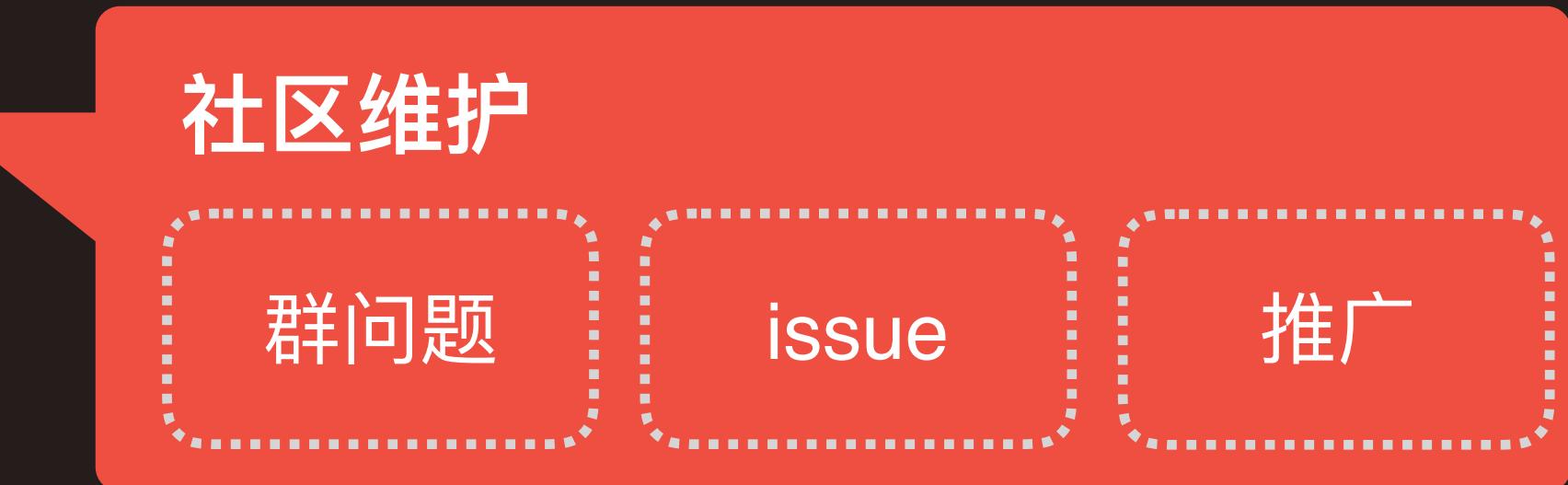
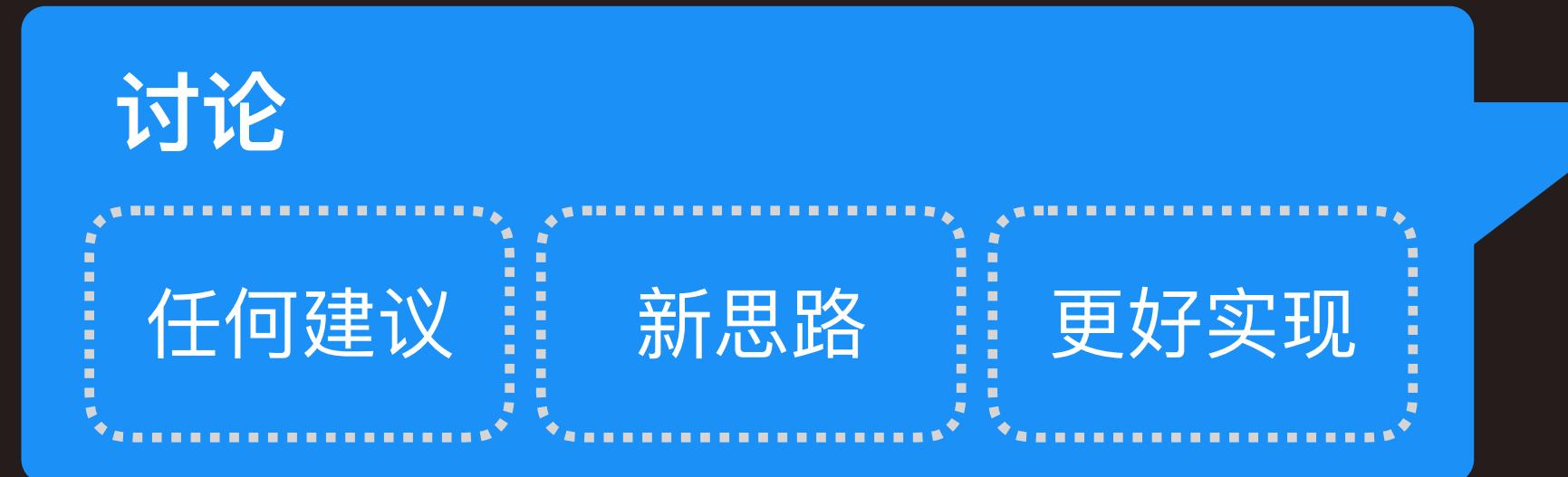
- 经过内部一年多的使用，已经趋于稳定
- 外部 Weex 开发者急需一套成熟 UI 组件库提高开发效率
- 给大家**更多 Weex 可实现功能的输入**，最佳实践实现的参考

## How ?

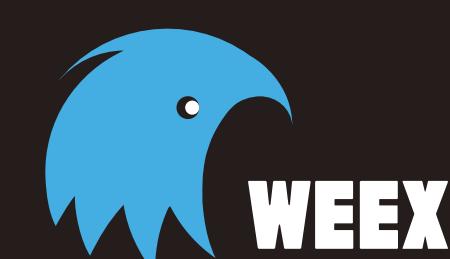
- weex-toolkit + weex-ui 如何更好使用
- 欠缺组件的补全 + 现有组件的增强
- 继续扩展边界 + 轻舟解决方案 UI 库
- 引入更多富交互体验 + 组件的无障碍优化
- **简易的使用方式** + 详细的中英文档
- **更多人的参与 + 共促 weex 的发展**



# 共同促进 Weex UI 的发展



Please feel free to use and contribute to the development.



# Q ? A : End





<https://weex.apache.org>