中秋节运营需求中的CSS动画

翟东方(蕤宾)

自我介绍

• 翟东方(蕤宾)

• 葳蕤:草木茂盛的样子

黄钟 大吕 太簇 夹钟 姑洗 仲吕 蕤宾 林钟 夷则 南吕 无射 应钟



自我介绍

- 2006-2008: ISO9000审核行业文员
- 2008-2010: 网页设计、在小公司做项目
- 2010-2011: 瑞星前端开发
- 2011-2015: 腾讯微博、微视网页重构;新闻客户端交互设计
- 2015: 滴滴顺风车前端开发

2015年中秋节:9月27日

上线时间:9月24日

大话中秋2015 · H5产品



目的:

结合节日,发券,传播,带量,让用户玩起来

主要入口:风车位



制作页产品策略的变化



换一批 吴刚 骨灰级伐水工 砍树第一高手 □ 滴滴顺风车

7:20

顺风大电影

83%

•••• BEN ♀



9月17日

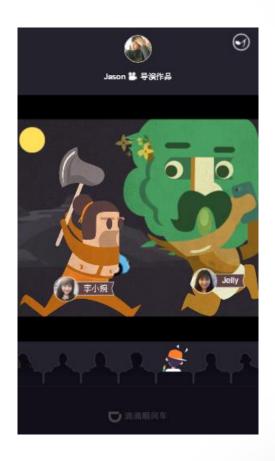
9月19日

9月20日(周日,基本定稿)

展示页产品策略的变化



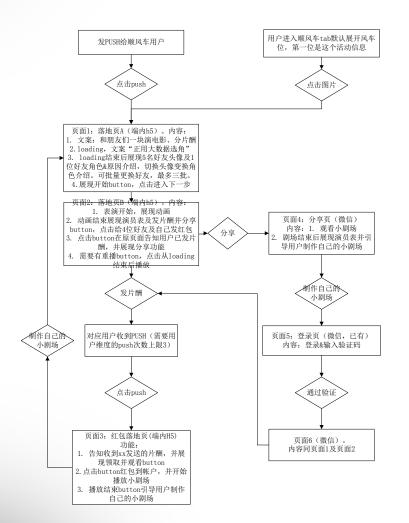


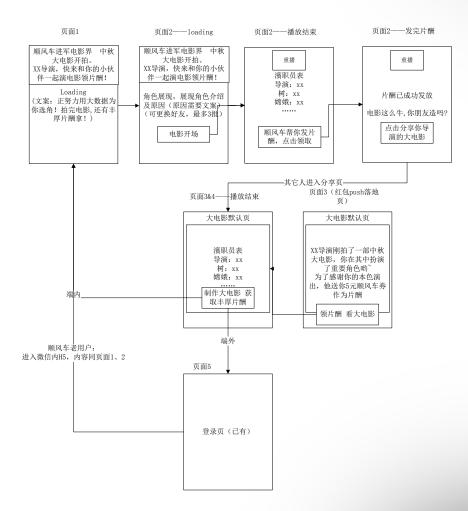


9月17日

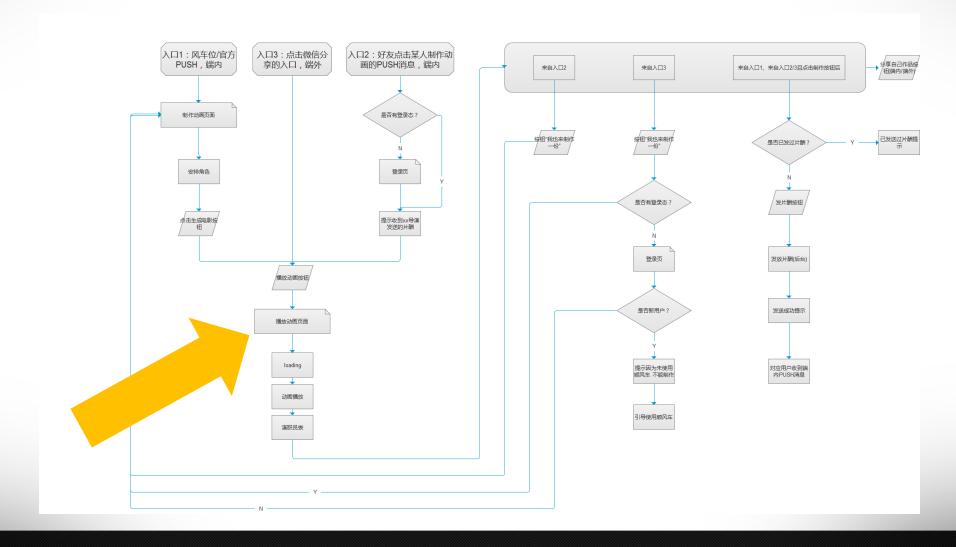
9月20日(周日,基本定稿)

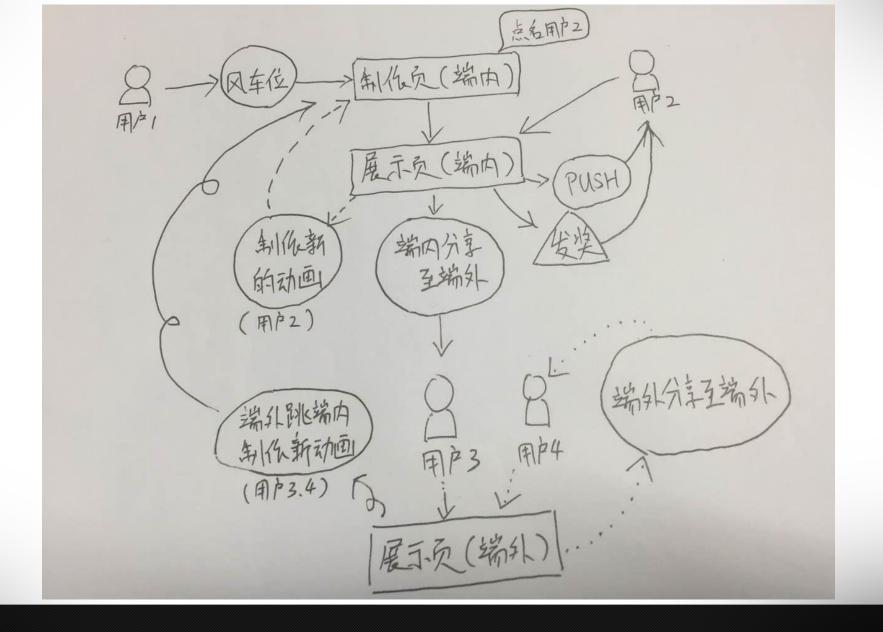
产品:需求流程图和页面逻辑图





产品:需求流程图和页面逻辑图





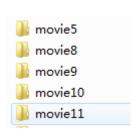


大话中秋2015 · 设计



设计资源

Photoshop (750px)



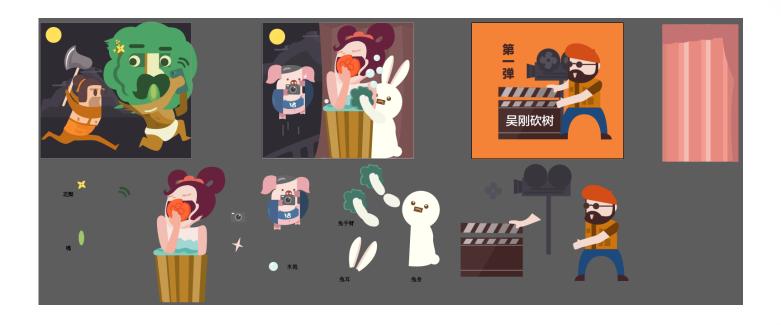


制作页展示页

- Loading
- 动画播放前倒计时
- 动画播放后"职员表"
- 发奖提示

设计资源

Illustrator



动画 10s - 15s - 26s

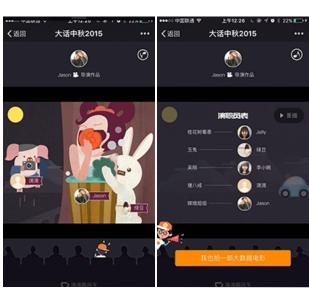
大话中秋2015 · 前端





- 1. 2个故事,7个场景
- 2. 移动端自适应,支持 Android4.0以上(大量用到 animation-fill-mode:forwards)

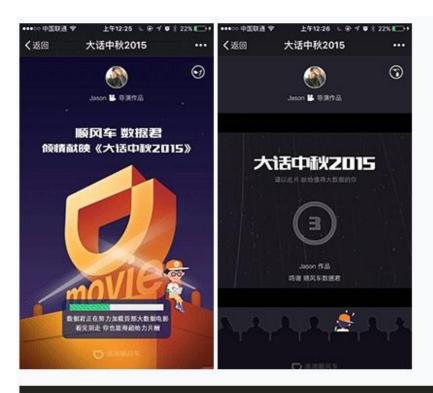
http://futurefriendly.cn/cssanimate/demo/



划分场景

- 1. loading
- 2. animate0: 倒计时画面
- 3. ka1: 打板1
- 4. animate1: 吴刚砍树
- 5. ka2: 打板2
- 6. animate2: 嫦娥玉兔
- 7. animateStaff: 演职员表

setTimeout管理场景



- 1. // 动画开始,
- 2. // 载入倒计时场景(animateOStart),
- 3. // 考虑到重播情况,收起演职员表(animateStaff),
- 4. \$('body').removeClass('animateStaff').addClass('animate anima
 te0Start');

setTimeout管理场景



```
    // 移除倒计时场景(animate0Start),
    // 载入吴刚砍树场景(animate1Start),
    // 载入打板场景1(ka1Start)
    setTimeout(function() {
    $('body').removeClass('animate0Start')
    .addClass('animate animate1Start ka1Start');
    },4000);
```

移动端自适应

- 1. 画布的自适应
- 2. 逐帧动画的自适应

画布的自适应 .canvas


```
▼ <div class="canvas":
  ▶ <div class="loading">...</div>
   <img class="placehold" src="data:image/png;</pre>
   base64.iVBOR...AHgABboVHMgAAAABJRU5ErkJggg==" alt>
   <!-- 内容 -->
 ▶ <div class="scene_bg">...</div>
  ▶ <div class="scene0">...</div>
  <div class="scene1">...</div>
  ▶ <div class="scene2">...</div>
  <div class="openscene">...</div>
  ▶ <div class="staff">...</div>
   <!-- 遮置 -->
 ▶ <div class="mov_cover">...</div>
   <!-- /遮置 -->
  <div class="sentbonus">...</div>
  <div class="roleshow" style="display:none;</p>
  position:absolute; left:0; top:0; width:100%;
 height:100%; background:#000; z-index:1000">...</div>
   <a href="javascript:;" id="btn replay" class=</pre>
   "btn_replay" style="display: block;">重播</a>
   <!-- /内容 -->
 </div>
```

```
Filter
element.style {
                          .canvas 375px × 375p
.canvas {
                                      mov story a756265.css:1
  position: relative;
  overflow: ▶ hidden:
  background-color: ##000;
  -webkit transform style: preserve 3d;
  transform-style: preserve-3d;
html, body, div, span, h1, h2, h3, h4, h5, lib 5d956cf.css:2
h6, p, a, em, img, input, q, b, dl, dt, dd, ol, ul, li,
form, label, canvas {
  margin: ▶0;
  padding: ▶0;
  border: ▶0;
  outline: ▶0;
  -webkit-user-select: none;
A font size adjust: none;
A webkit text size adjust: 100%!important;
```

画布的自适应 占位图片

```
▼ <div class="canvas">
 ▶ <div class="loading">...</div>
    <img class="placehold" src="data:image/png;</pre>
   base64, iVBOR...AHgABboVHMgAAAABJRU5ErkJggg==" alt)
   <!-- 内容 -->
 ▶ <div class="scene bg">...</div>
 ▶ <div class="scene0">...</div>
 ▶ <div class="scene1">...</div>
 ▶ <div class="scene2">...</div>
 ▶ <div class="openscene">...</div>
 ▶ <div class="staff">...</div>
   <!-- 遮置 -->
 <div class="mov_cover">...</div>
   <!-- /遮置 -->
 ▶ <div class="sentbonus">...</div>
 ▶ <div class="roleshow" style="display:none:
 position:absolute; left:0; top:0; width:100%;
 height:100%; background:#000; z-index:1000">...</div>
   <a href="javascript:;" id="btn_replay" class=</pre>
   "btn_replay" style="display: block;">重播</a>
   <!-- /内容 -->
 </div>
```

```
Filter
element.style {
.canvas .placehold {
                     img.placehold 375px × 375px
  opacity: 0;
  width: 100%;
.canvas img {
                                      mov story a756265.css:1
  width: 100%:
  vertical-align: top;
html, body, div, span, h1, h2, h3, h4, h5, lib 5d956cf.css:2
h6, p, a, em, img, input, q, b, dl, dt, dd, ol, ul, li,
form, label, canvas {
  margin: ▶0;
  padding: ▶0;
  border: ▶0;
  outline: ▶0;
   -webkit-user-select: none;
  font size adjust: none;
```

海阳贵夷

特花树蚕黍

画布的自适应 画布中的场景



```
P <div class="scene2">...</div>
b <div class="openscene">...</div>

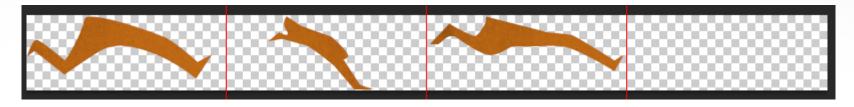
div class="staff">...</div>
<!-- 遮罩 -->
b <div class="mov_cover">...</div>
<!-- /應罩 -->
b <div class="sentbonus">...</div>
b <div class="roleshow" style="display:none; position:absolute; left:0; top:0; width:100%; height:100%; background:#000; z-index:1000">...</div>
<a href="javascript:;" id="btn_replay" class="btn_replay" style="display: block;">重播</a>
<!-- /內容 -->
</div>
</div>
```

```
element.style {
}
.animateStaff .canvas .staff {
    webkit transform: translateY(0);
    transform: translateY(0);
}
.canvas .staff {
    position: absolute;
    z-index: 60;
    left: 0;
    top: 0;
    width: 100%;
    height: 100%;
```

逐帧动画的自适应



逐帧动画的自适应 依赖百分比



http://futurefriendly.cn/lab/steps/

其他

页面渲染

- CSS硬件加速也有坑
 http://div.io/topic/1348
- Javascript高性能动画与页面渲染

 http://www.infoq.com/cn/articles/javascript-high-performance-animation-and-page-rendering
 http://www.oschina.net/translate/chrome-accelerated-rendering?cmp&p=1

总结

- 1. 时间短、资源紧
- 2. 按期完成运营需求,没有人被罚钱

成功

THANK YOU!



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