

响应式设计 Responsive Web Design: Rebuild as Design

bennyzhai(翟东方) OMG
One Piece 2013.6.7



About Us

WDC, 腾讯微博用户体验设计中心 @weibodesign

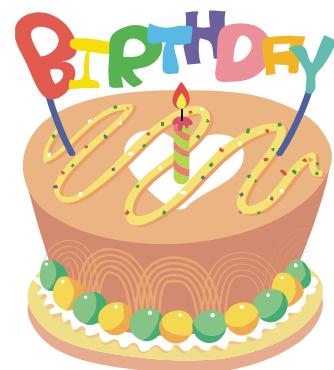


Tencent Weibo Design Center,
<http://t.qq.com/weibodesign>

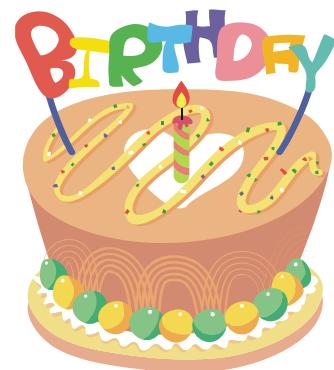


Responsive Web Design

2010.5-2013.5



Happy Birthday! Then...WTF?



引言 Intro

Example

Media
Queries

Skinny Ties 27

UX London 2013 8

Stuff & Nonsense 27

Media
Queries

Skinny Ties

Start dressing better. 27

We started designing and selling neckties in 1971. After 41 years, we're still family-owned and operated. 27

We started designing and selling neckties in 1971. After 41 years, we're still family-owned and operated. 27

UX London 2013 8

UX LONDON 8

UX LONDON 8

Manage Projects Better
Get your projects done faster, easier with Zoho Projects. 1 Project Free!

Together
Get it
Done

Zoho Projects

via Ad Packs

@Mediaqueries
<http://mediaqueri.es>



引言 Intro

Example

The screenshot shows the top portion of Ethan Marcotte's website. At the top left is a navigation bar with links: ABOUT, writing, portfolio, and contact. Below this, the name "ETHAN MARCOTTE" is displayed in a large, serif font. Underneath the name is a bio: "is a web designer & developer, a speaker and author." A paragraph below describes Ethan's passion for design and code, mentioning his work at An Event Apart, Carsonified Workshop, and South by Southwest. It also notes his seminar series with Dan Cederholm. Another paragraph details his professional achievements, including work with People Magazine, New York Magazine, Sundance Film Festival, The Boston Globe, and the World Wide Web Consortium. A note states he is not currently booking new engagements but encourages contact via Twitter. At the bottom of the screenshot is another navigation bar with links: about, WRITING, portfolio, and contact. The word "SELECTED" is prominently displayed in a large, bold, serif font.

ABOUT writing portfolio contact

ETHAN MARCOTTE

is a web designer & developer, a speaker and author.

Ethan lives in Boston, Massachusetts, and is passionate about beautiful design, elegant code, and the intersection of the two. He is a popular and experienced speaker, having been featured at An Event Apart, Carsonified Workshop, and South by Southwest, and co-hosts the Handcrafted CSS seminar series with Dan Cederholm.

More fun facts: Ethan has a [blog](#), and blathers incessantly on [Twitter](#). His clientele has included *People Magazine*, *New York Magazine*, the Sundance Film Festival, *The Boston Globe*, and the World Wide Web Consortium. Also, he is tall.

Ethan's not currently booking new engagements. But if you'd like to get in touch, [please do!](#)

about WRITING portfolio contact

SELECTED

This screenshot shows the same website layout as the first one, but with a blurred background image of a sunset or sunrise. The navigation bar, bio, and other content elements are identical to the first screenshot, maintaining the same visual style and information.

ABOUT writing portfolio contact

ETHAN MARCOTTE

is a web designer & developer, a speaker and author.

Ethan lives in Boston, Massachusetts, and is passionate about beautiful design, elegant code, and the intersection of the two. He is a popular and experienced speaker, having been featured at An Event Apart, Carsonified Workshop, and South by Southwest, and co-hosts the Handcrafted CSS seminar series with Dan Cederholm.

More fun facts: Ethan has a [blog](#), and blathers incessantly on [Twitter](#). His clientele has included *People Magazine*, *New York Magazine*, the Sundance Film Festival, *The Boston Globe*, and the World Wide Web Consortium. Also, he is tall.

Ethan's not currently booking new engagements. But if you'd like to get in touch, [please do!](#)

Ethan Marcotte

<http://ethanmarkotte.com>



引言 Intro

Example

The screenshot shows the homepage of the Princess Elisabeth Antarctica website. At the top is a navigation bar with four buttons: STATION, SCIENCE, NEWS & PRESS, and MULTIMEDIA. Below the navigation is a large image of the station's exterior with the caption "采集到花瓣". Underneath the image is the station's name: "Princess Elisabeth Antarctica". A prominent title reads "THE FIRST 'ZERO EMISSION' POLAR RESEARCH STATION". Below the title is a detailed paragraph about the station's history and its role as a "zero emission" station. At the bottom left is a "LATEST NEWS" section.

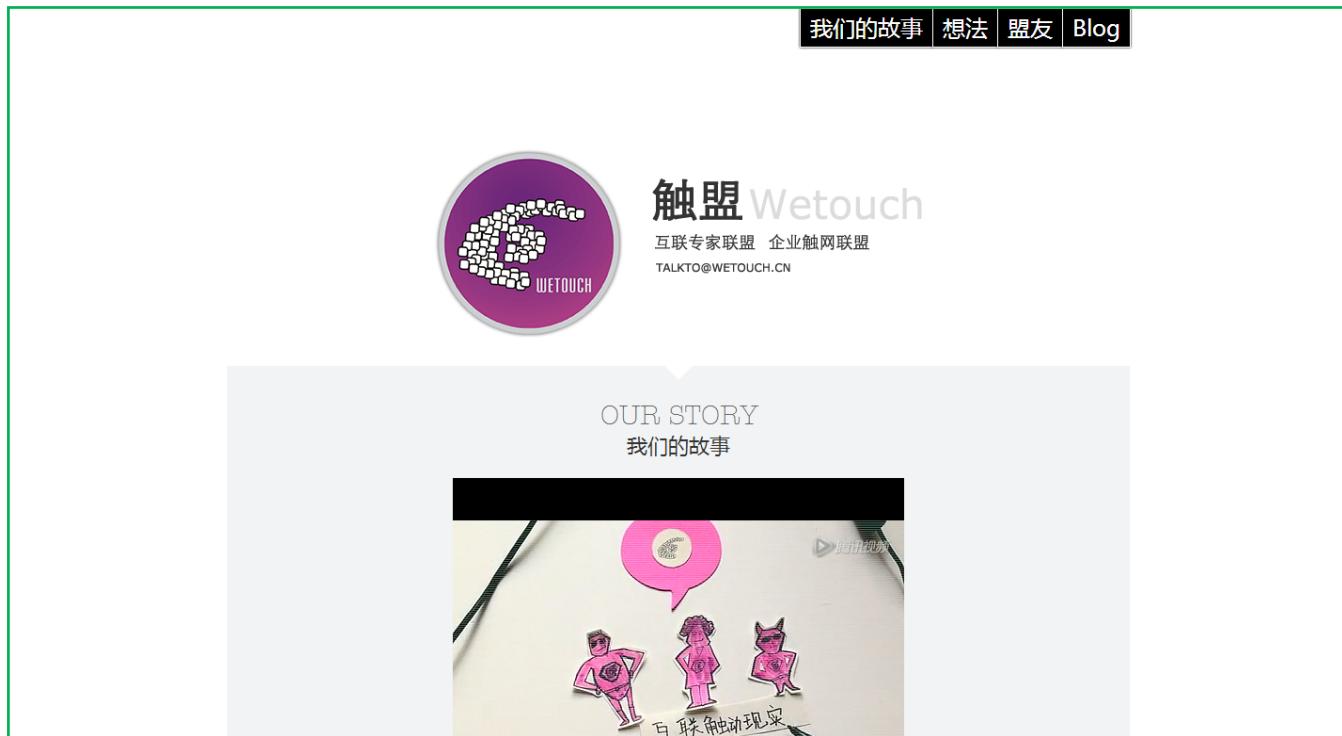
The screenshot shows the homepage of the International Polar Foundation website. It features a similar layout to the first site, with a navigation bar at the top and a large image of the station's exterior below it. The station is identified as "Zero Emission" and part of "Polar Projects". The "NEWS & PRESS" section includes "Antarctic Updates" and "Pictures & Videos". The main title "THE FIRST 'ZERO EMISSION' POLAR RESEARCH STATION" is centered below the image. A small note at the bottom refers back to the station's role as a "zero emission" station.

International Polar Foundation
<http://www.antarcticstation.org>



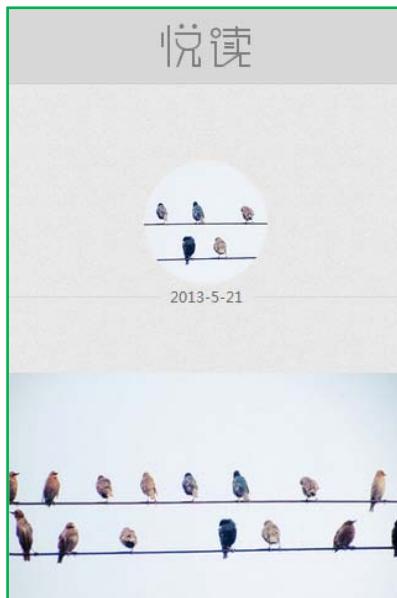
引言 Intro

Example



引言 Intro

Example



2013-5-21

2013-5-21

看点 “辽渔船25222号”渔船船主 学君

http://t.qq.com/qqnews

腾讯新闻

【船主否认朝鲜已释放被扣中国渔民 坚称船未越界】船主学君昨夜还没接到朝鲜的放人通知，仍担心16名被扣船员的安全。坚称渔船在被扣时未越界，GPS和北斗的定位系统都可以作证。

http://url.cn/GJxX4I

腾讯科技

【科技界的“奢侈品”】一部iPhone的外壳包裹上18ct的金外衣，苹果标志也镶满1ct的钻石，身价立刻飙升至32613.75美元。

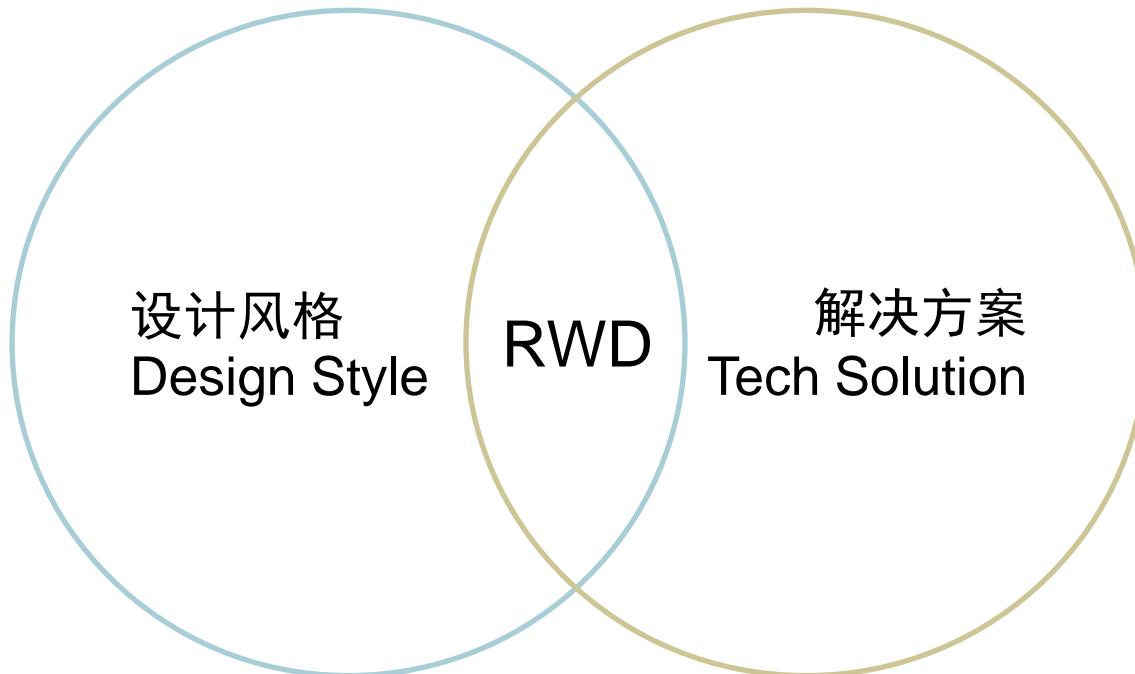
http://url.cn/EtxffV

苏童

除了电影，戛纳并无太多风景，游客们都爬到城堡的老墙上，看看海，看看戛纳小城，这就叫到此一游。

WDC

Essential



1. Base on Flexibility: RWD充分利用了web设计的灵活特性；
2. Solution: RWD是利用现有技术解决多终端兼容问题的一种方案；
3. Style: RWD由重构环节推动设计流程，本身形成了一种设计风格。

History



History: 2000, Web is Flexible -Web的灵活性是可以利用的

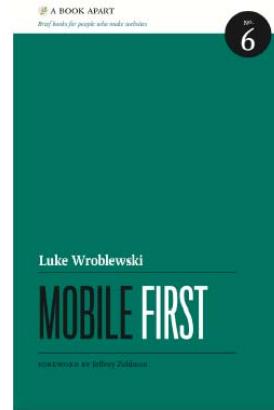


“网页和打印介质的不同在于它具有打印介质没有的灵活性，我们应该接受这种灵活性并且利用它。”

“The control which designers know in the print medium, and often desire in the web medium, is simply a function of the limitation of the printed page. We should embrace the fact that the web doesn't have the same constraints, and design for this flexibility. But first, we must “accept the ebb and flow of things.”

John Allsopp, 2000.4.7, "A Dao of Web Design",
<http://alistapart.com/article/dao>

History: 2009, Mobile First 重视移动端体验



1. Mobile is exploding
2. Mobile forces you to focus
3. Mobile extends your capabilities

Luke Wroblewski, 2009.11.3, "*Mobile First*",
<http://www.lukew.com/ff/entry.asp?933>

History: 2010, Theory and Practice 理论和实践

The screenshot shows the header of the article 'Responsive Web Design' by Ethan Marcotte. The header includes the A List Apart logo (a stylized 'A' inside a laurel wreath), the article number 'No. 306', and navigation links for ARTICLES, TOPICS, ABOUT, CONTACT, and CONTRIBUTE. Below the header is the date 'MAY 25, 2010'. The main title 'Responsive Web Design' is in red, followed by the author's name 'by ETHAN MARCOTTE'. Below the title, it says 'Published in: CSS, Layout, User Interface Design, Mobile, Mobile Design, Mobile Development'. There are links to 'Discuss this article >' and 'Share this article >'. At the bottom of the screenshot is a black and white illustration of a person taking a photograph of a group of people sitting on the ground.

Mobile Web Design: Best Practices

Aug 18 2010 by Alexander Dawson | 38 Comments



The explosion in user adoption of mobile devices has revolutionized the web. Though designing for the Mobile Web follow similar principles to designing websites, we must consider some notable differences.

For one, current mobile device networks don't run in the same speed as broadband devices.

In addition, there are also a myriad of ways our mobile web designs are displayed in, from touch screens to netbooks, which make even the smallest desktop monitors look like giants.

Ethan Marcotte, 2010.5.25, "Responsive Web Design",
<http://alistapart.com/article/responsive-web-design>

Alexander Dawson, 2010.8.18, "Mobile Web Design: Best Practices",
<http://sixrevisions.com/web-development/mobile-web-design-best-practices>

History: 2011, Performance 注意性能

LUKEW
IDEATION + DESIGN



"Science arose from poetry... when times change the two can meet again on a higher level as friends."—Johann Goethe



\$200 off UX Immersion.

ABOUT WRITINGS PRESENTATIONS

RESS: Responsive Design + Server Side Components

by Luke Wroblewski

September 12, 2011

There's no shortage of debate about the best way to develop Web sites that work well across many **networked devices**. Some teams favor a client-side approach while others lean towards server-side solutions. But I'm increasingly interested in solutions that try to bring together the best of both worlds. RESS (Responsive Web Design + Server Side Components) is one such proposal.

Luke Wroblewski, 2011.9.12, "RESS: Responsive Design + Server Side Components",
<http://www.lukew.com/ff/entry.asp?1392>

WDC

History: 2012, Workflow 工作流程的讨论

The Personal Disquiet of
MARK BOULTON

Responsive Summit: Workflow

– February 24th, 2012 –

These are my notes, conclusions and thoughts from yesterday's [Responsive Summit](#) in London.

Last week, [Alex Morris](#) – UX Director at [Mark Boulton Design](#), [Chris Armstrong](#), Designer from [Front](#), the company responsible for [Typecast](#), and [Josh Brewer](#), Principle Designer at [Twitter](#), were discussing the idea that – whilst Josh is in the UK – we should all get together and have a chat about Responsive Web Design; the problems we share, the tools and solutions we're individually developing, and how we can collectively we can get a better understanding of what RWD means for us and our daily business.

Mark Boulton, 2012.2.24, "Responsive Summit: Workflow",
<http://www.markboulton.co.uk/journal/responsive-summit-workflow>

引言 Intro

History: 2013, Performance, Optimization, Workflow



CSS & Mobile Performance 10am CT

by [Estelle Weyl](#), Author of *HTML5 and CSS3 in the Real World*



Optimizing Media Queries 2pm CT

by [Kimberly Blessing](#), Director at Think Brownstone



The New Responsive Web Design Workflow 10am

CT

by [Trent Walton](#), Founder & 1/3 of Paravel Inc.

Topics on RWD SUMMIT 2013,

<http://environmentsforhumans.com/2013/responsive-web-design-summit>

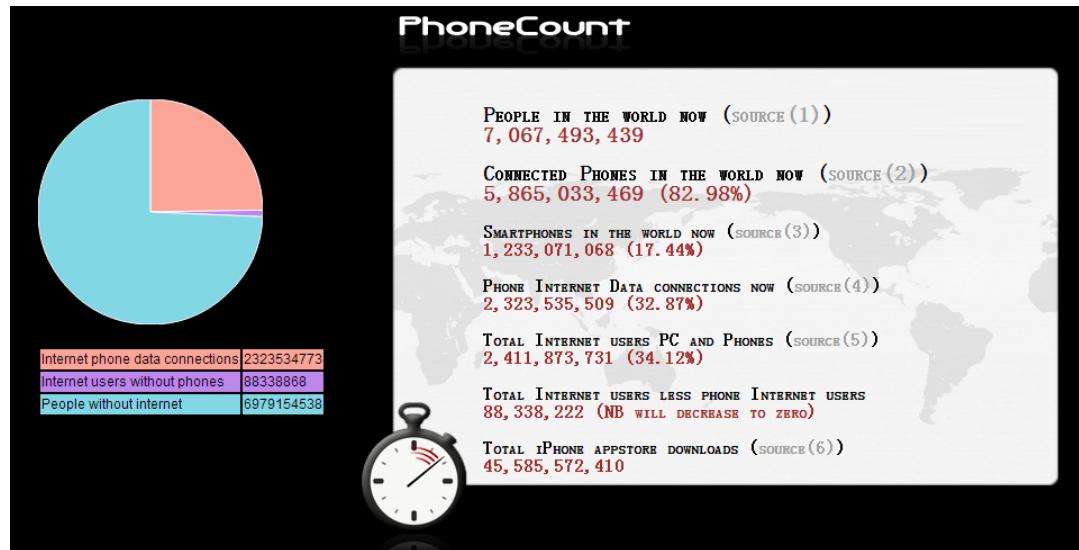
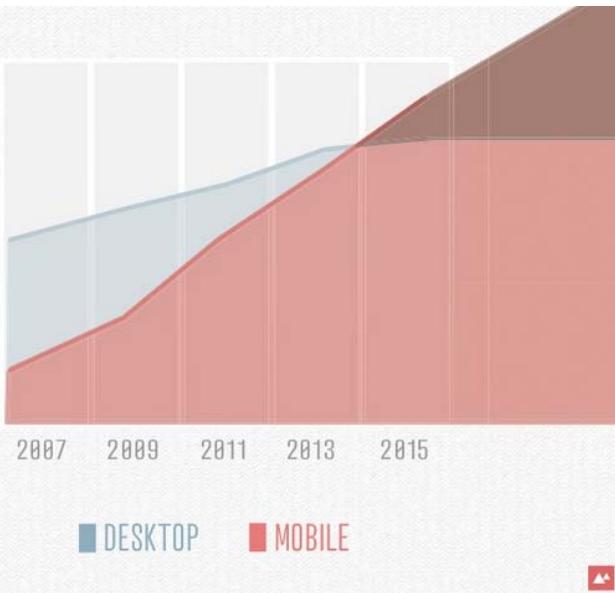
Okay, Intro is over, engine start!



1. Aim: RWD能解决什么问题
2. Problem: RWD本身的问题和争议
3. Rules: 需要遵循的原则
4. Method: 实现RWD的方法
5. Workflow: 工作流程

Aim: RWD能解决什么问题

Pain Exist: Mobile Increase



Sara Cannon, 2012.5.7, "Responsive Design",

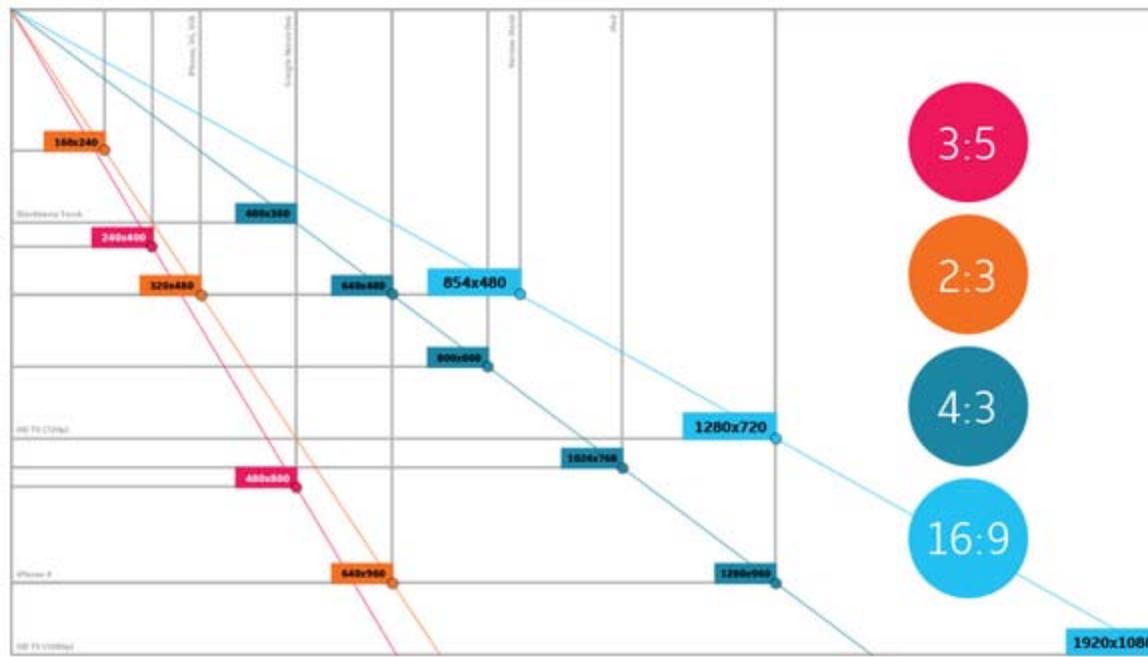
http://www.slideshare.net/saracannon/responsive-design-12837964?from_search=2

Phone Count,

<http://phonecount.com/pc/count.jsp>

Aim: RWD能解决什么问题

Pain Exist: Various Resolution & Client



Andy Gilliland, 2011.4.1, "Pixel Proliferation: A Toolset For Managing Screen Resolutions",
<http://punchcut.com/perspectives/expanding-universe-toolset-managing-screen-resolutions>

Aim: RWD能解决什么问题

Pain Exist: High Cost of Separate Versions

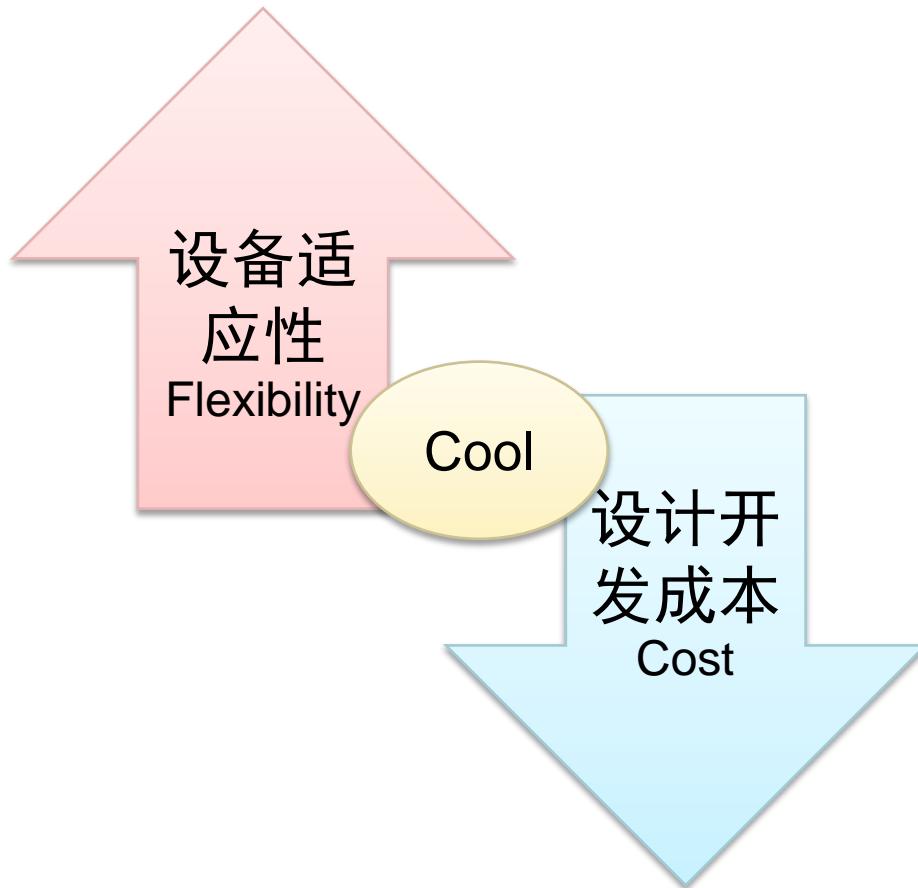


Thomas Byttebier, 2011.11, "Responsive web design",

http://www.slideshare.net/bytte/responsive-web-design-10389263?from_search=3

Aim: RWD能解决什么问题

Essential: 2 Targets, 1 Bonus

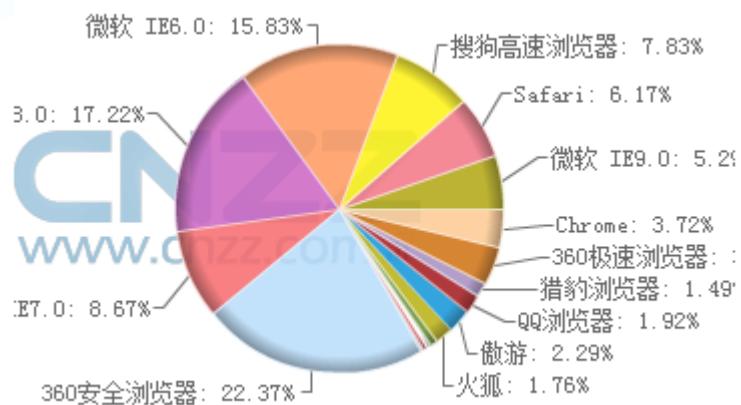


1. Aim: RWD能解决什么问题
2. Problem: RWD本身的问题和争议
3. Rules: 需要遵循的原则
4. Method: 实现RWD的方法
5. Workflow: 工作流程

Problem: RWD本身的问题和争议

Browser Data 浏览器兼容(2013.4)

2013	Total	IE 10	IE 9	IE 8	IE 7	IE 6
April	12.7 %	2.0 %	4.4 %	5.3 %	0.8 %	0.1 %
March	12.9 %	1.3 %	5.2 %	5.5 %	0.8 %	0.2 %
February	13.5 %	0.9 %	5.7 %	5.8 %	0.9 %	0.2 %
January	14.3 %	0.8 %	5.9 %	6.4 %	1.0 %	0.3 %

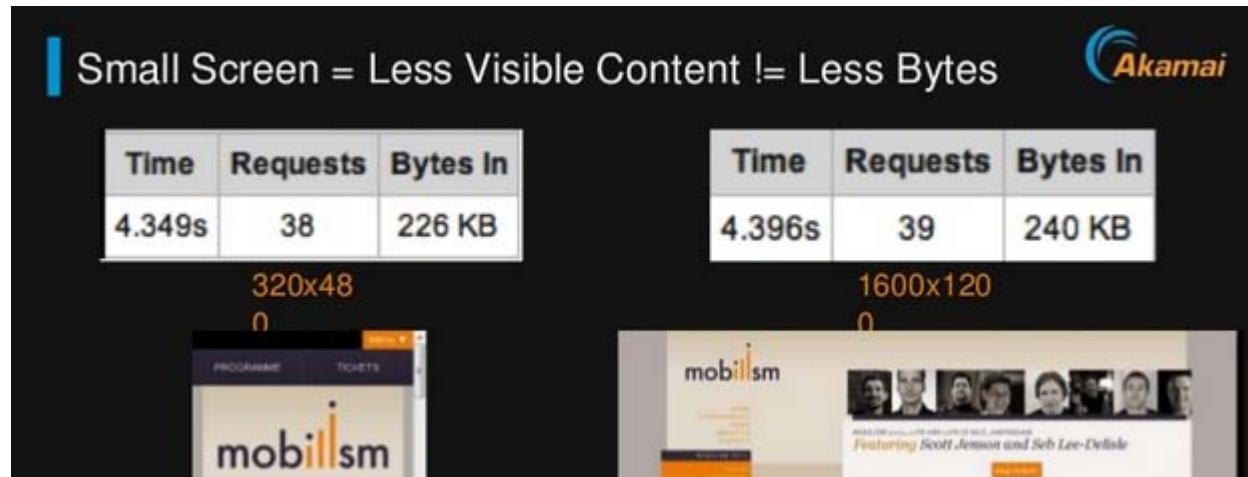


1. IE8: ~~media queries~~
2. IE6: ~~max(min)-width~~
3. Graceful Degradation
降级方案

http://www.w3schools.com/browsers/browser_explorer.asp
<http://brow.data.cnzz.com>

Problem: RWD本身的问题和争议

Performance 性能



1. DOM先下载后隐藏的问题；
2. 图片先下载后缩小的问题；
3. 下载额外的样式的问题
4. 优化方案

Guy Pod, 2012.4.16, "Performance Implications of Mobile Design",
<http://www.slideshare.net/guypod/performance-implications-of-mobile-design>

1. Aim: RWD能解决什么问题
2. Problem: RWD本身的问题和争议
3. Rules: 需要遵循的原则
4. Method: 实现RWD的方法
5. Workflow: 工作流程

Rules: 需要遵循的原则

内容策略 Content Strategy

腾讯微博 手机版 1.3g.qq.com

主页 大厅 频道 拨入 刷新

·一起聊:九月我的计划和目标 ×

BennyChia 资料 LV4 开学联谊

提到我的 听众(193) 我收听(436) 广播(1292) 订阅收藏 私信 附近 树洞

说说新鲜事: (140字内)

广播 插图片 @ ❤️ 🍃

全部 | 互听 | 特别收听 | QQ好友

搞笑大本营:“因为单词，不会轻易背上，所以英语还是初中的模样；因为词汇量，基本不生长，喝两瓶啤酒就能全部忘光；因为单词，总是背完就忘，我曾怀疑我脑子里装的是豆浆；因为单词，在那个地方，就算你背后的痴狂疯狂抓狂，还是背完就忘。。。”

大图 (45秒前 来自 QQ)
转播 评论(6) 收藏 更多

腾讯微博 首页 频道 找人 微群 应用 实验室

BennyChia 今天心情怎么样?

1292 49 436 193

广播

全部广播 特别收听 名单 简群 提到我的

广播 图片 音乐 视频 精选

最近, 你可能错过了 等人的精彩图片

搞笑大本营:“因为单词，不会轻易背上，所以英语还是初中的模样；因为词汇量，基本不生长，喝两瓶啤酒就能全部忘光；因为单词，总是背完就忘，我曾怀疑我脑子里装的是豆浆；因为单词，在那个地方，就算你背后的痴狂疯狂抓狂，还是背完就忘。。。”

2分钟前 来自QQ 全部转播和评论(40)

转播 | 评论 | 更多

我们最爱冷笑话 转播:【常见的三种富翁名人座右铭, 你有吗?】更多风水小知识尽在神秘风水!

神秘风水学:【常见的三种富翁名人座右铭, 你有吗?】一、川字墨: 性格方面独立自主, 事业方面成就卓著, 维护家庭方面的稳定性。二、勤奋致: 事业方面冲劲十足, 成绩斐然, 增强家庭方面的稳定性。三、玉柱纹: 清秀直中中指: 事业辉煌, 家庭美满>>>更多风水小知识请收听 @神秘风水学>>周易占卜术 盘准的! 推荐 @世界500强生存法则

2分钟前 来自世界的另一个角落

转播 | 评论 | 更多

钟明深 转播:

北京市朝阳区 北太平庄北里四村 - 地图显示

2分钟前 来自腾讯微博iPhone客户端

转播 | 评论 | 更多

热门话题

方大同被律师追查(1999724)
广州南沙区人民武装部委方大同被打空姐,已停职检查
上访明星作词政府(4951264)
钓鱼岛争端再升级(41560326)
日本政府表示以约合2600万美元向钓鱼岛人购买钓鱼岛
日本再拍渔船抵被擒(1022700)
中方力阻日机撞机(3150436)
阿波罗登月东方之门,各种欢呼声齐浮
幼婴儿吸食二代(7046167)
呼啦A梦轻一百分(1359911)
叶德诚品相惊心动魄(6726012)
最美女警为乞丐要指甲(21088978)
最美交警

<http://t.qq.com>

WDC

Rules: 需要遵循的原则

移动优先 Mobile First



Image by Thomas Byttebier, 2011.11, "Responsive web design",
http://www.slideshare.net/bytte/responsive-web-design-10389263?from_search=3

Rules: 需要遵循的原则

适应是响应的基础 Responsive base on Flexible



Photo©Franco Andreone <http://www.francoandreone.it>
http://www.cites.org/gallery/species/reptile/short-horned_chameleon.html

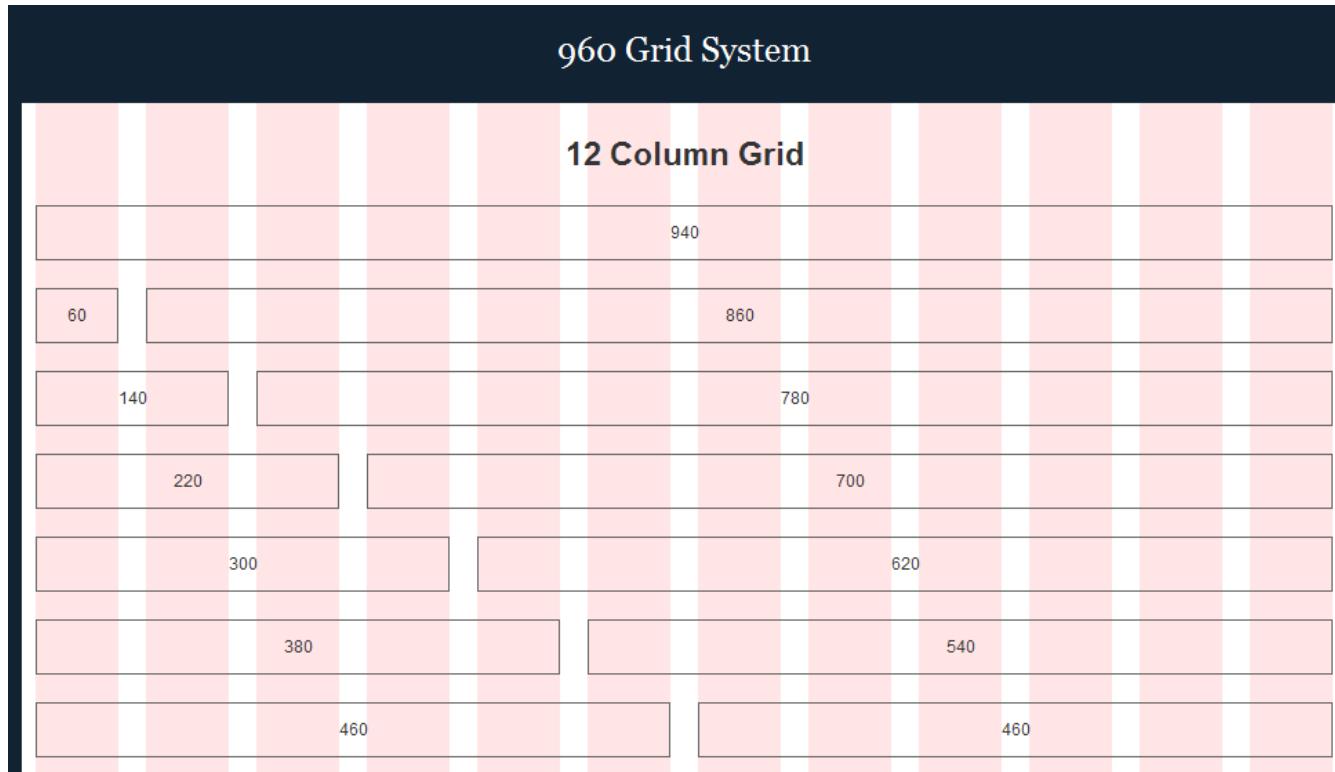
1. Aim: RWD能解决什么问题
2. Problem: RWD本身的问题和争议
3. Rules: 需要遵循的原则
4. Method: 实现RWD的方法
5. Workflow: 工作流程

Mobile First: Viewport设置

```
<meta name="viewport"  
content="width=device-width,  
initial-scale=1.0, minimum-scale=1.0, maximum-scale=1.0,  
user-scalable=no" />
```

Method: 实现RWD的方法

Fixed Grid System 固定栅格系统



```
.container_12 .grid_1 {  
    width: 60px;  
}  
  
.container_12 .grid_11 {  
    width: 860px;  
}
```

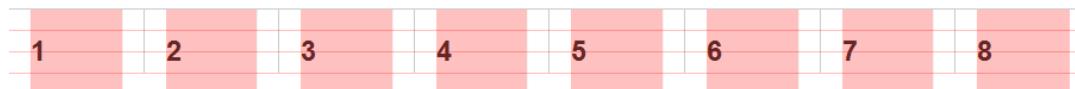
Nathan Smith, '960 Grid System',
<http://960.gs/demo.html>

Method: 实现RWD的方法

Fluid Grids 流动栅格系统

FluidGrids

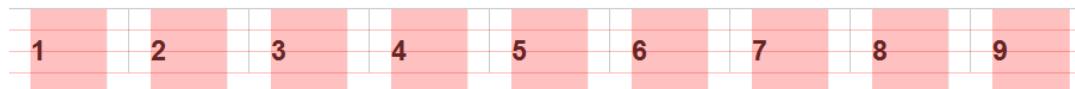
8-Column Grid



[Hide grids](#)

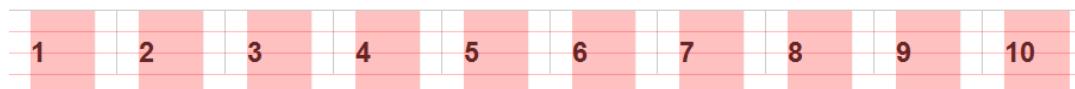
```
media="all"
.col1of8 {
  width: 12.5%;
}
```

9-Column Grid



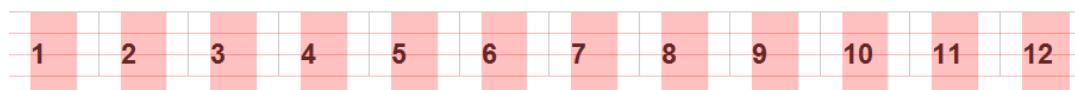
```
media="all"
.col1of9 {
  width: 11.11111111111111%;
```

10-Column Grid



```
media="all"
.col1of10 {
  width: 10%;
```

12-Column Grid



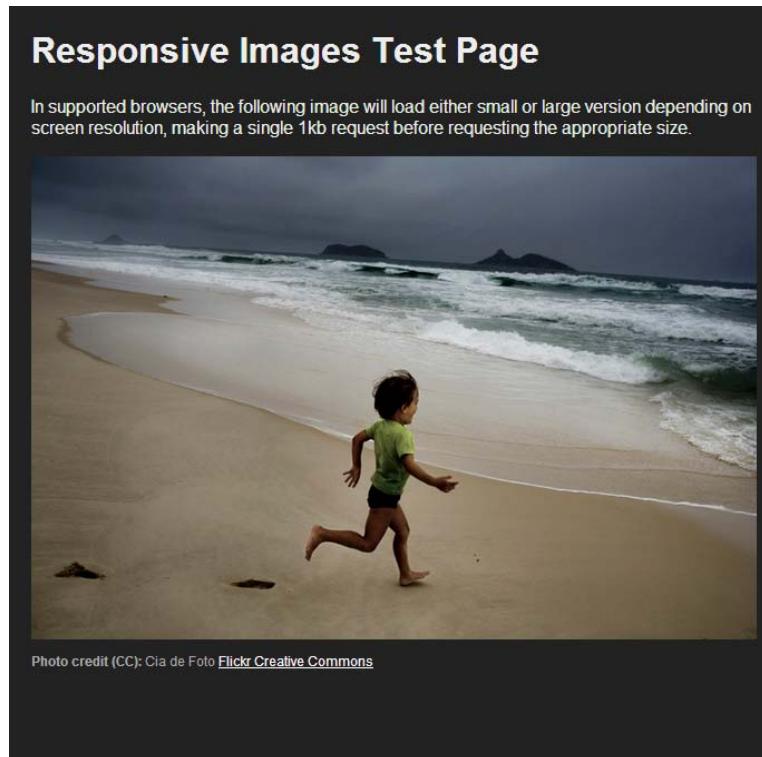
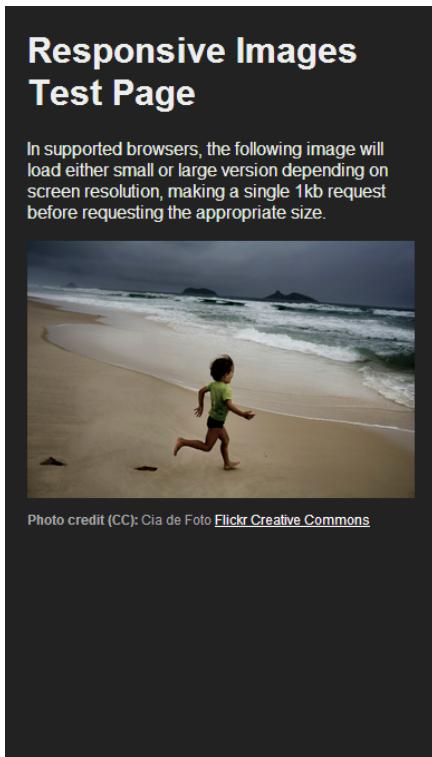
```
media="all"
.col1of12 {
  width: 8.33333333333333%;
```

<http://fluidgrids.com>



Method: 实现RWD的方法

Flexible Images 弹性图片



Max-width:100%

<http://filamentgroup.com/examples/responsive-images>

Method: 实现RWD的方法

Media Queries 媒体查询

```
E{display:none}
```

breakpoint

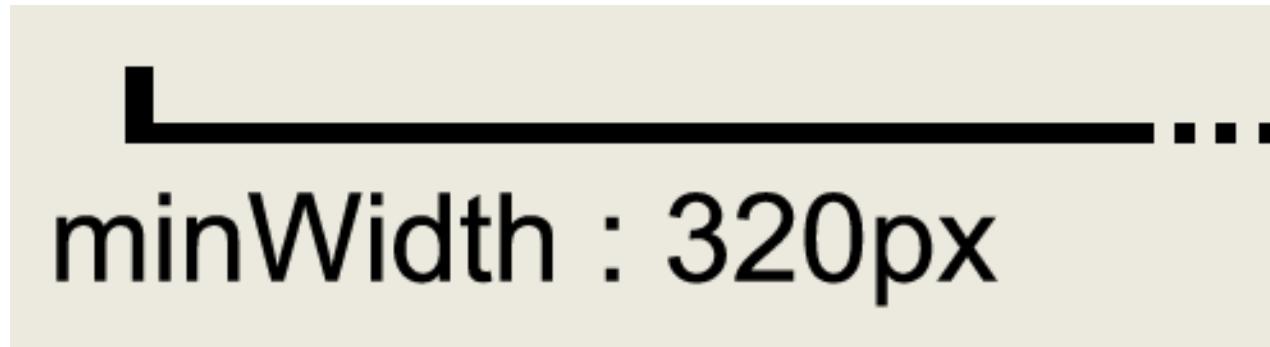
```
@media only screen and (min-width: 522px) {  
E{ display:block; margin-bottom:30px}  
}
```

```
@media only screen and (min-width: 982px) {  
E{ margin-bottom:50px}
```

breakpoint

Method: 实现RWD的方法

Media Queries 媒体查询 breakpoint的设置 从320px开始



跨平台设计需要适应的宽度范围是一个半开放区间，
最小宽度(**minWidth**)为320px(iPhone3GS)。

Method: 实现RWD的方法

Media Queries 媒体查询 breakpoint的设置 响应的临界值



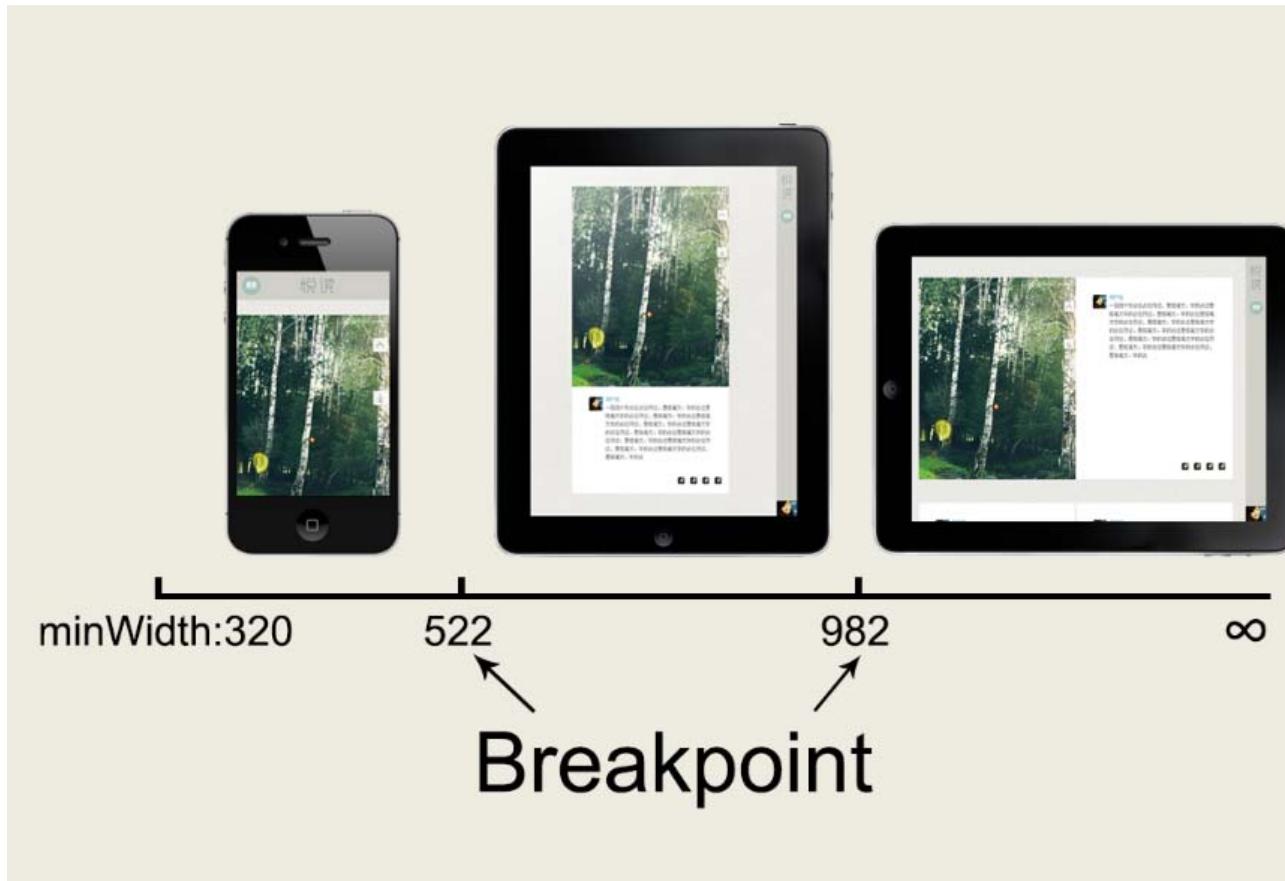
1. Breakpoint指从minWidth向上设置的若干个发生视觉突变(响应)的临界值；
2. Breakpoint划分了若干区间；
3. 页面在区间内的变化为**适应变化**；
4. 跨区间的变化为**响应变化**。

Media Queries 媒体查询 breakpoint的设置 Tips

1. 一般来说，breakpoint设置2个即可，将场景划分为小(phone)、中(pad)、大(desktop)三种分辨率的设备；
2. Breakpoint的设置不依赖设备分辨率；
3. Breakpoint的设置依赖于视觉设计稿，没有视觉稿的情况下设定breakpoint是空谈。

Method: 实现RWD的方法

Media Queries 媒体查询 breakpoint的设置 一个例子



Method: 实现RWD的方法

Source Order

FRIENDS

盟友



我们的故事

想法

盟友

Blog

```
media="screen"
.m_nav {
  z-index: 100;
  ▲ ms-flex-order: 4;
  ▲ moz-box-ordinal-group: 4;
  -webkit-box-ordinal-group: 4;
  ▲ box-ordinal-group: 4;
  width: 100%;
}
```

我们的故事 | 想法 | 盟友 | Blog



触盟 Wetouch

互联专家联盟 企业触网联盟

TALKTO@WETOUCH.CN

OUR STORY

我们的故事

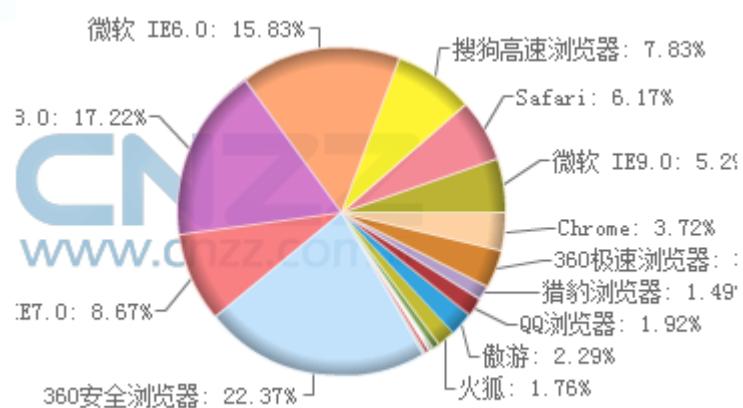
```
element.style {
  display: table-footer-group;
}
```

1. Flexbox调整容器顺序；
2. Display:table调整容器顺序

Method: 实现RWD的方法

About Browser Data 关于浏览器兼容

2013	Total	IE 10	IE 9	IE 8	IE 7	IE 6
April	12.7 %	2.0 %	4.4 %	5.3 %	0.8 %	0.1 %
March	12.9 %	1.3 %	5.2 %	5.5 %	0.8 %	0.2 %
February	13.5 %	0.9 %	5.7 %	5.8 %	0.9 %	0.2 %
January	14.3 %	0.8 %	5.9 %	6.4 %	1.0 %	0.3 %

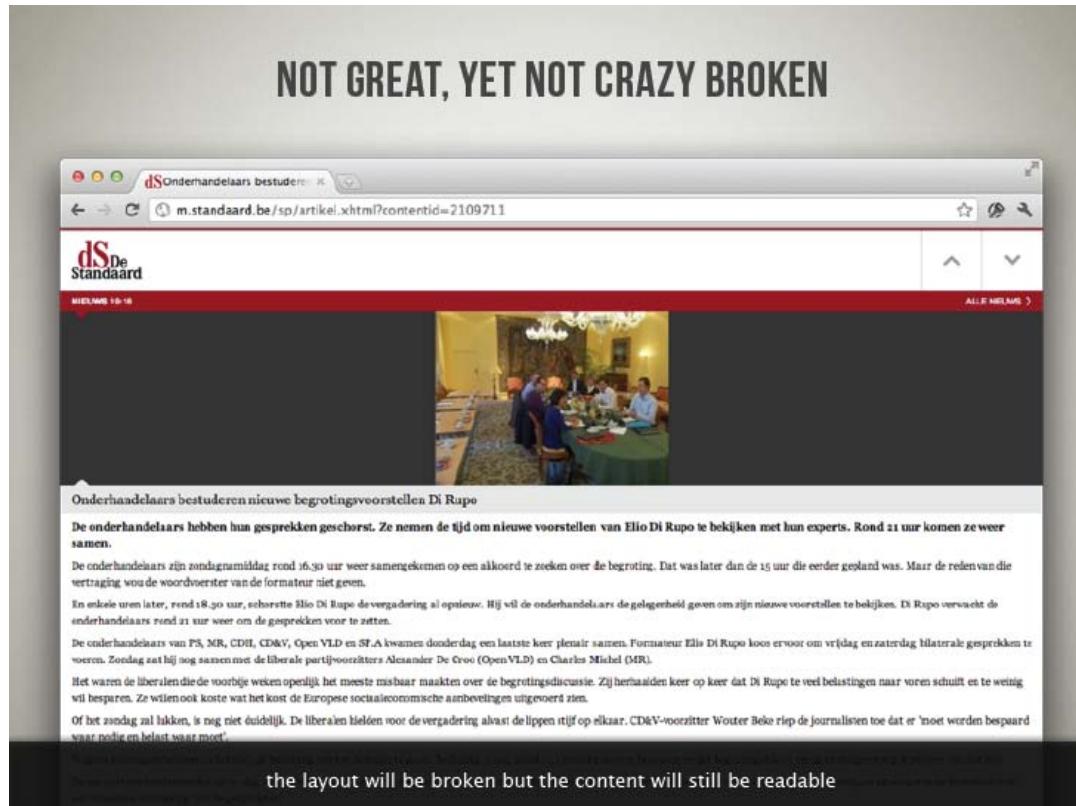


1. IE8: ~~media queries~~
2. IE6: ~~max(min)-width~~
3. Graceful Degradation
降级方案

http://www.w3schools.com/browsers/browser_explorer.asp
<http://brow.data.cnzz.com>

Method: 实现RWD的方法

Fix IE: Content Strategy降级法



Thomas Byttebier, 2011.11, "Responsive web design",

http://www.slideshare.net/bytte/responsive-web-design-10389263?from_search=3

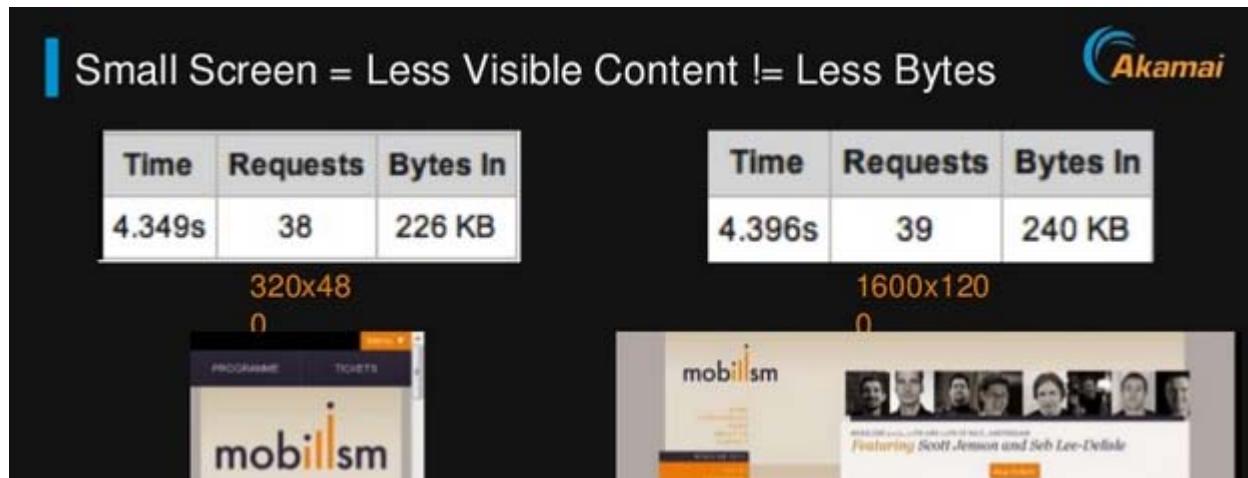
Method: 实现RWD的方法

Fix IE: Pixel-fixed降级法

```
<!--[if lte IE 8]>
<link type="text/css" rel="stylesheet" media="screen"
href="style.ie.css" />
<![endif]-->
```

Method: 实现RWD的方法

About Performance 关于性能

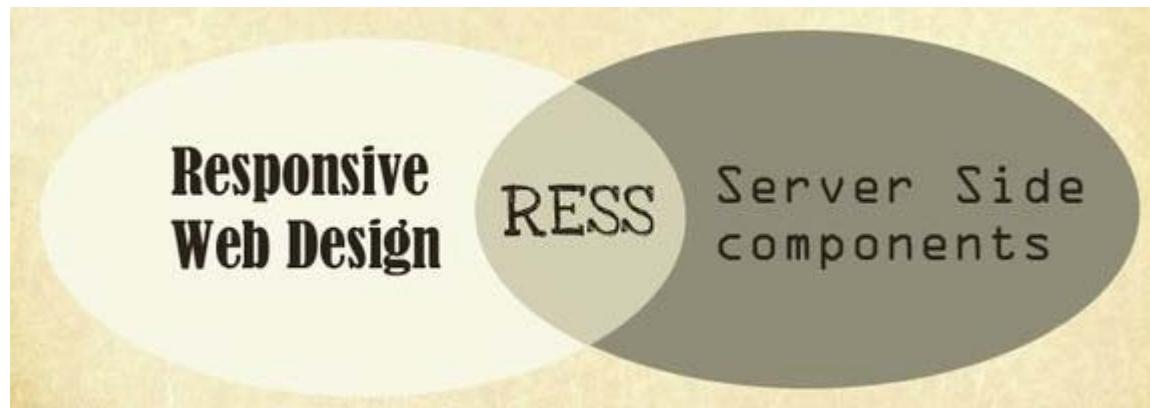


1. 结构: DOM先下载后隐藏的问题;
2. 样式: 下载额外的样式的问题;
3. 资源: 图片先下载后缩小的问题;
4. 优化方案

Guy Pod, 2012.4.16, "Performance Implications of Mobile Design",
<http://www.slideshare.net/guypod/performance-implications-of-mobile-design>

Method: 实现RWD的方法

RESS: Responsive Design + Server Side Components



Anders M. Andersen, 2012.5.9, "Getting started with RESS",
<http://www.netmagazine.com/tutorials/getting-started-ress>

Method: 实现RWD的方法

RESS: Responsive Design + Server Side Components



"Science arose from poetry... when times change the two can meet again on a higher level as friends." —Johann Goethe

\$200 off UX Immersion.

ABOUT WRITINGS PRESENTATIONS

RESS: Responsive Design + Server Side Components

by Luke Wroblewski

September 12, 2011

There's no shortage of debate about the best way to develop Web sites that work well across many *networked devices*. Some teams favor a client-side approach while others lean towards server-side solutions. But I'm increasingly interested in solutions that try to bring together the best of both worlds. RESS (Responsive Web Design + Server Side Components) is one such proposal.

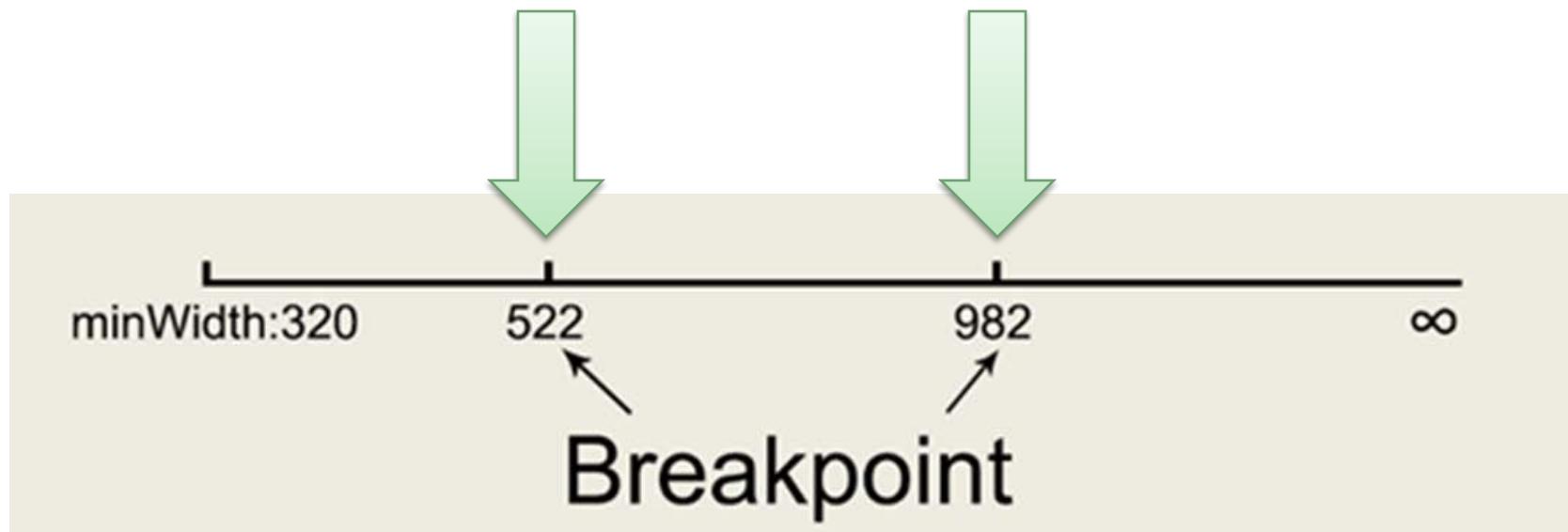
1. RESS为解决性能问题而生
2. 服务器端设备侦测；
3. 给出需要的结构、样式、资源
4. 前端分段进行RWD

Luke Wroblewski, 2011.9.12, "RESS: Responsive Design + Server Side Components",
<http://www.lukew.com/ff/entry.asp?1392>



Method: 实现RWD的方法

RESS: Responsive Design + Server Side Components



不要设置过大的**适应变化**范围，
RESS不建议一套代码兼容所有设备，而是分段处理

Method: 实现RWD的方法

RESS: Responsive Design + Server Side Components



```
1 <body>
2 {{>header}}
3
4 [...document content...]
5
6 {{>footer}}
7 </body>
```

index.html
header.html
mobile_header.html
footer.html
mobile_footer.html

RESS对结构(Source Order)的优化

Method: 实现RWD的方法

RESS: Responsive Design + Server Side Components

```
<?php

    // grab the cookie value
    $screenWidth = $_COOKIE['RESS'];

    // set the img path var
    if ($screenWidth <= 320) {
        $imgPath = "320";
    } else if ($screenWidth < 960) {
        $imgPath = "640";
    } else {
        $imgPath = "960";
    }

    // print out our image link
    print "<img src='/rwd/images/".$imgPath."/car.jpg' alt='Car' />";

?>
```

RESS对资源的优化

Method: 实现RWD的方法

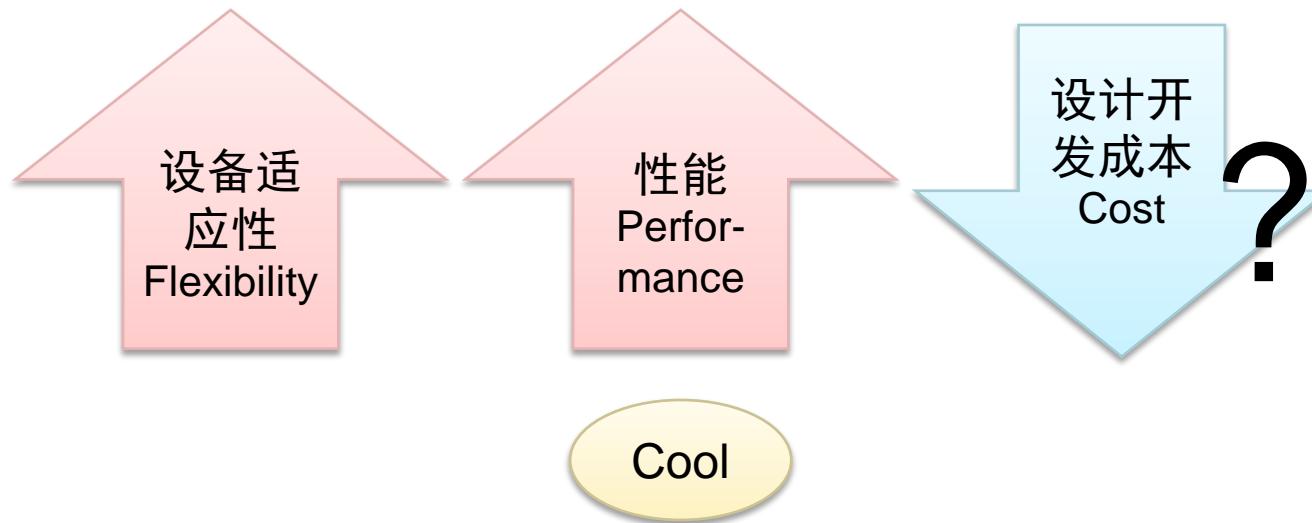
RESS: Responsive Design + Server Side Components

RESS **isn't** a silver bullet.

Dave Olsen, 2012.5.15, "RESS: An Evolution of Responsive Web Design",
<http://www.slideshare.net/dmolsenwvu/ress-an-evolution-of-responsive-web-design>

Method: 实现RWD的方法

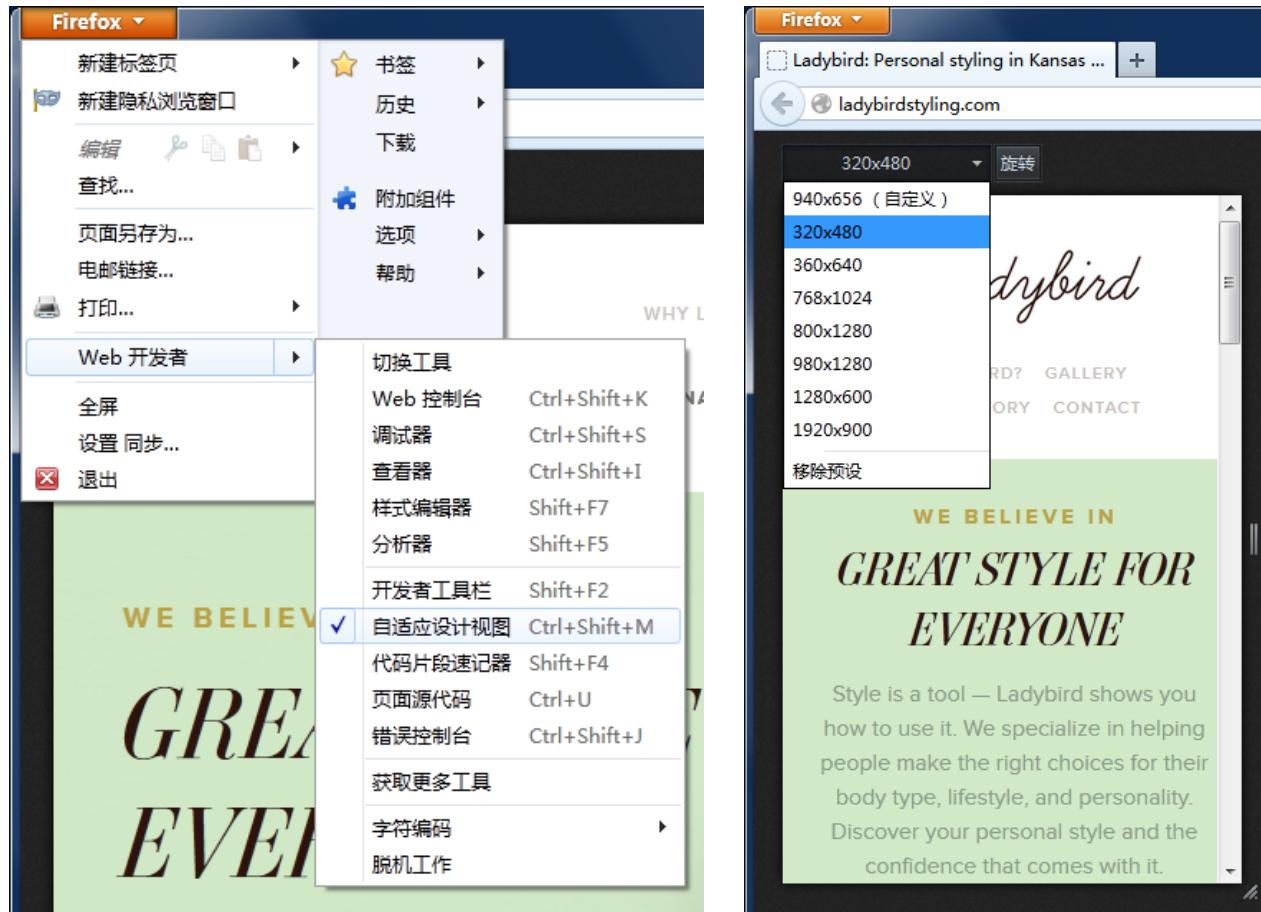
RESS: Responsive Design + Server Side Components



1. RESS并未消解RWD的本质，只是提出了性能的要求
2. RESS是介于SeparateVersions和OneVersionFixAll间的折中方案
3. RESS需要后端介入设计，比传统的RWD需要更紧密的沟通

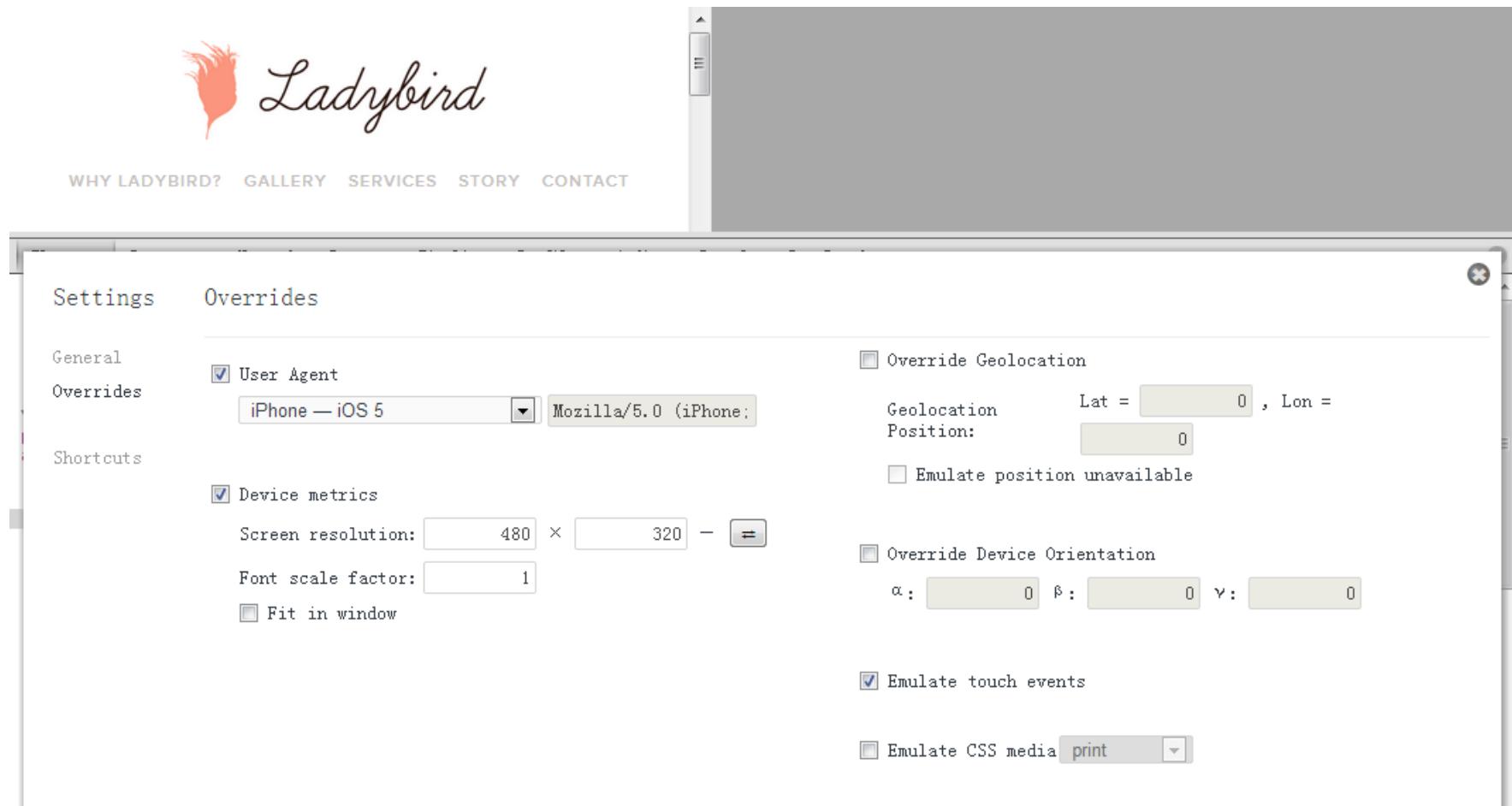
Method: 实现RWD的方法

工具 Tools: Firefox(v15+)自适应视图



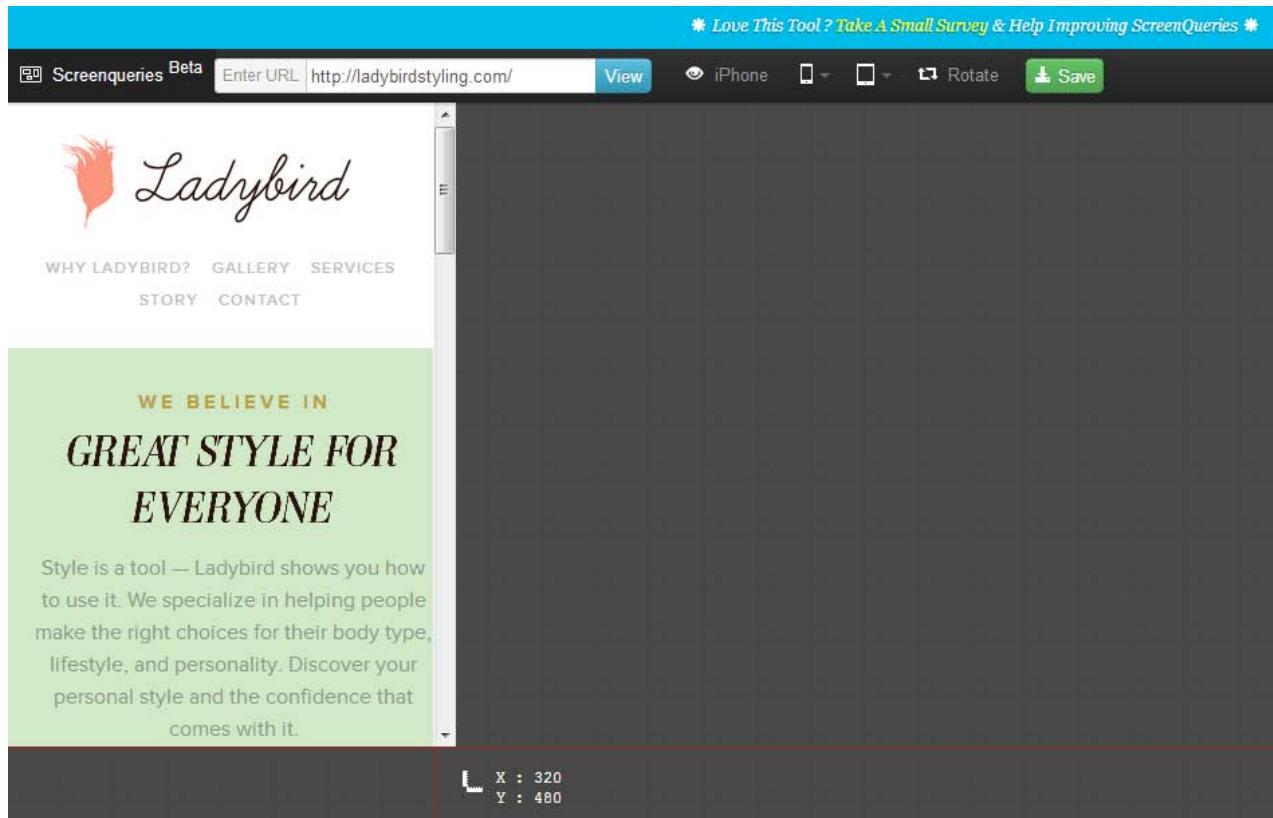
Method: 实现RWD的方法

工具 Tools: Chrome developer tools



Method: 实现RWD的方法

工具 Tools: ScreenQueries



ScreenQueries

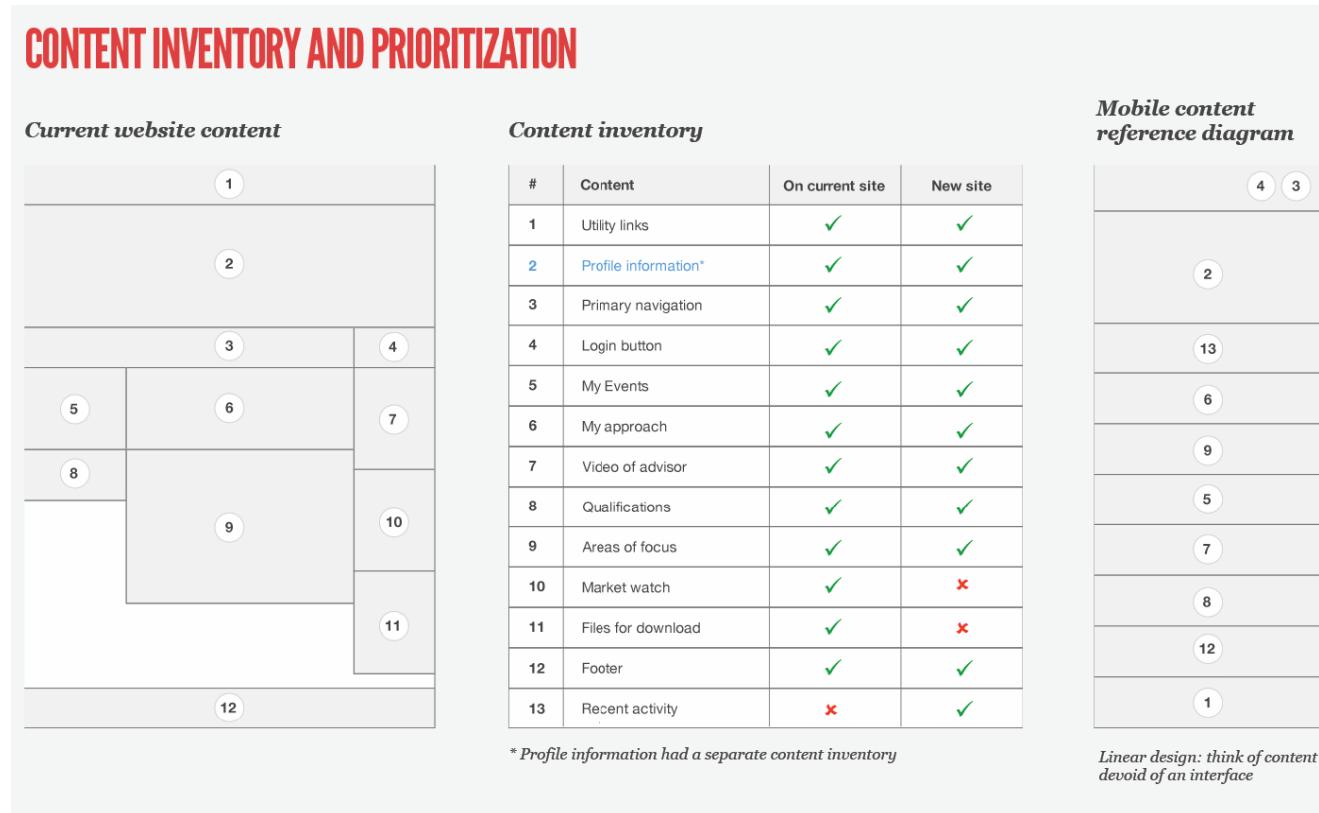
<http://screenqueri.es>

WDC

1. Aim: RWD能解决什么问题
2. Problem: RWD本身的问题和争议
3. Rules: 需要遵循的原则
4. Method: 实现RWD的方法
5. Workflow: 工作流程

Workflow: 工作流程

Module List 模块清单



Pon Kattera, 2012.1.21, "Design Process in the Responsive Age",
<http://www.slideshare.net/pkattera/design-process-for-responsive-web-design>

Workflow: 工作流程

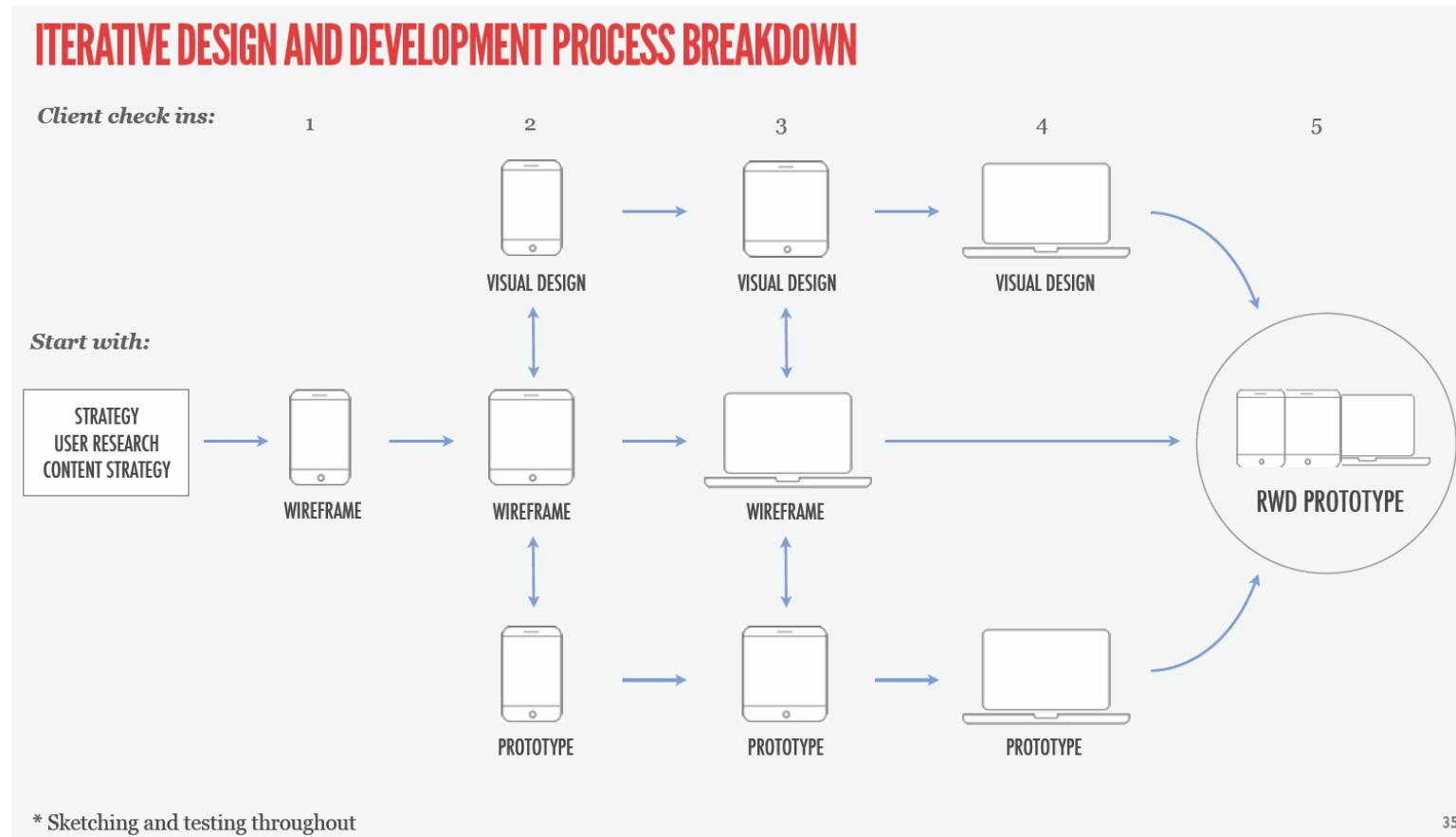
Module List 模块清单



模块名	窄(手机) 320px<width<522px	中(ipad竖屏) 522px<width<982px	宽(desktop) width>982px
1 控制面板 LOGO	有	有	有
2 控制面板 控制台	有	有	有
3 控制面板 登录态	待定	有	有
4 内容面板	有	待定	有
5 客厅 视觉区域	有	有	有
6 客厅 广播区域	有	有	有
7 客厅 图片组区域	有	有	有
8 客厅 长文区域	有	有	有
9 书房 广播框	有	有	有
10 书房 长文正文	有	有	有

Workflow: 工作流程

Workflow



35

Pon Kattera, 2012.1.21, "Design Process in the Responsive Age",
<http://www.slideshare.net/pkattera/design-process-for-responsive-web-design>

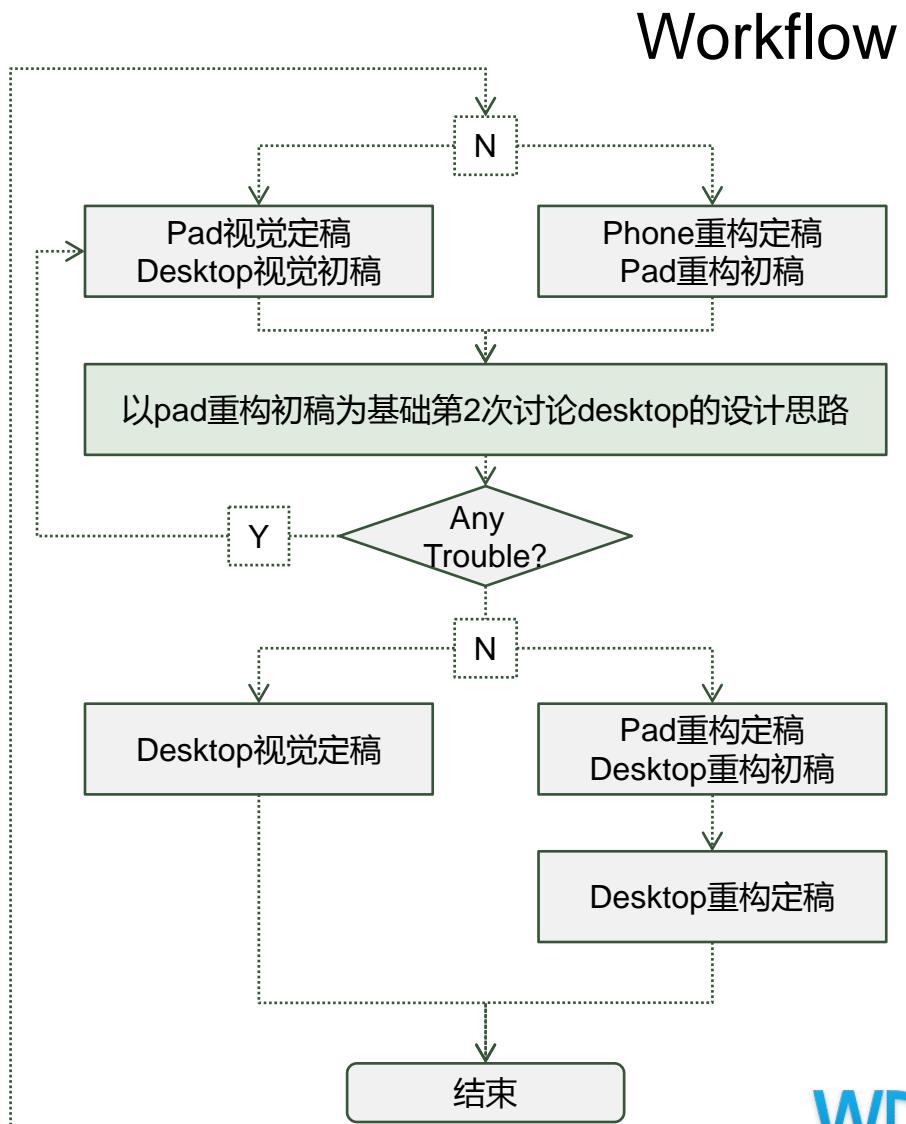
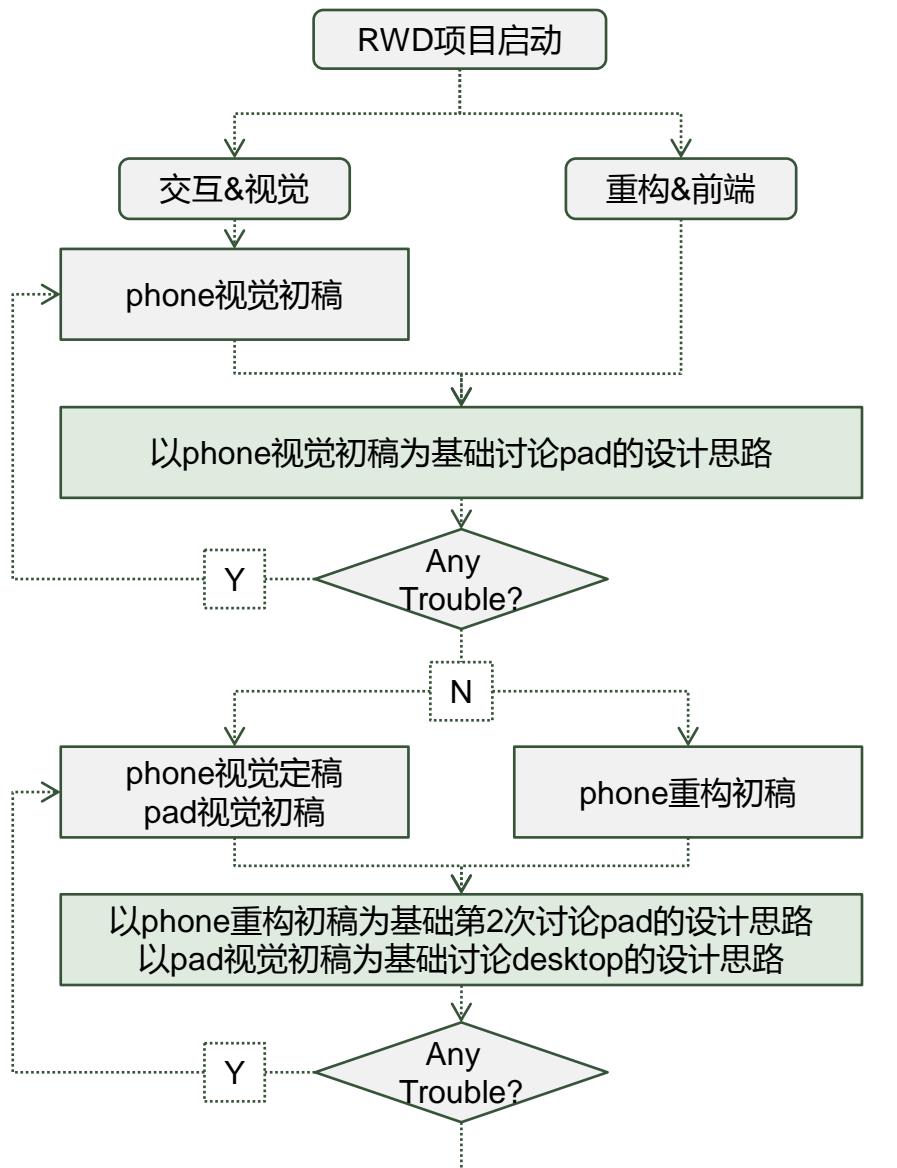
Workflow: 工作流程

Workflow

1. 依照分辨率小、中、大的顺序设计；
2. 视觉稿分初稿和定稿：初稿要确定模块的位置和尺寸；
3. 较小分辨率下的初稿确定后，交付重构制作，同时设计与重构沟通大一级分辨率下的设计思路；
4. 较小分辨率下的视觉定稿与大一级分辨率下的视觉初稿同时设计，较小分辨率下的重构定稿与大一级分辨率下的重构初稿同时制作；
5. 每一级讨论后如无异议，将模块写入模块清单。



Workflow: 工作流程



Responsive Web Design 2010.5-2013.5



Q1：响应式设计是什么？

1. 响应式设计充分利用了web的灵活性；
2. 它是一种设计风格；
3. 它更是一种解决方案。

Q2：响应式设计要解决什么问题？

1. 如何适应分辨率层出不穷的移动设备和终端；
2. 如何降低设计开发成本。

Q3：响应式设计的好处？

1. 一次性产出适应所有设备的prototype；
2. 在提高设备适应性，降低开发成本的基础上让网站变得更酷。

Q4：使用响应式设计的顾虑？

1. IE8（含）以下IE浏览器对某些相关css属性支持不好，需要选择适合的降级方案；
2. 注意结构、样式、资源处理不当带来的性能问题。

Q5：如果使用响应式设计，要遵循的原则？

1. 内容策略
2. 移动优先
3. 适应是响应的基础

Q6：实现响应式设计的方法？

1. 流动栅格
2. 弹性图片和媒体
3. 媒体查询

Q7：关于响应式设计的协作？

1. 紧密沟通
2. 及时更新模块清单
3. 小屏幕优先的设计流程

TimKadlec.com

ARCHIVES ABOUT SPEAKING FEED MY BOOK TWITTER

— OCTOBER 4, 2012 —

Blame the Implementation, Not the Technique



Tim Kadlec, 2012.10.4, "Blame the Implementation, Not the Technique",
<http://timkadlec.com/2012/10/blame-the-implementation-not-the-technique>

关于Rebuilder

作为设计团队中的重构工程师应该：

1. 及时发现和捕捉web设计的潜能；
2. 主动从web的适应性和性能的角度去影响设计环节；
3. 结合技术和团队一起拓展设计方法；
4. 带动整个团队的设计进步。

附录 Resource

附录1：一些应用了RWD的网站

1. <http://bradfrostweb.com/>
2. <http://elliotjaystocks.com/>
3. <http://ethanmarkotte.com/>
4. <http://www.facebookstories.com/>
5. <http://www.antarcticstation.org/>
6. <http://www.lib.jjay.cuny.edu/>
7. <http://ladybirdstyling.com/>
8. http://www.nascar.com/en_us/sprint-cup-series.html
9. <http://www.openroad.ca/>
10. <http://www.responsivewebdesign.co.uk/>
11. <http://www.sequencejs.com/>
12. <http://www.rachelandrew.co.uk/>
13. <http://www.nytimes.com/skimmer/#/Top+News>
14. <http://www.gorilla-webdesign.be/>
15. <http://mediaqueri.es/>
16. <http://socialdriver.com/2012/07/20-best-responsive-websites/>
17. <http://mashable.com/>

附录2：国内关于RWD的一些文章

1. 神飞：2010.7.6，《*media type与media query*》，"<http://www.qianduan.net/media-type-and-media-query.html>"
2. 张克军：2011.6.24，《聊聊响应性设计和开发》，"<http://hikejun.com/blog/2011/06/24/聊聊响应性设计和开发>"
3. c7210：2011.10.1，《什么是响应式Web设计？怎样进行？》，"<http://beforweb.com/node/6>"
4. 神飞：2011.11.2，《响应式网页设计》，"<http://www.qianduan.net/responsive-web-design.html>"
5. 张克军：2012.8.30，《一次响应性开发实践》，"<http://hikejun.com/blog/2012/08/30/一次响应性开发实践>"

参考文献 References

1. RWD Wikipedia http://en.wikipedia.org/wiki/Responsive_web_design
2. John Allsopp, 2000.4.7, "A Dao of Web Design", <http://alistapart.com/article/dao>
3. Luke Wroblewski, 2009.11.3, "Mobile First", <http://www.lukew.com/ff/entry.asp?933>
4. ETHAN MARCOTTE, 2010.5.25, "Responsive Web Design", <http://alistapart.com/article/responsive-web-design>
5. Alexander Dawson, 2010.8.18, "Mobile Web Design: Best Practices", <http://sixrevisions.com/web-development/mobile-web-design-best-practices>
6. Luke Wroblewski, 2011.9.1, "Why Separate Mobile & Desktop Web Pages?", <http://www.lukew.com/ff/entry.asp?1390>
7. Luke Wroblewski, 2011.9.12, "RESS: Responsive Design + Server Side Components", <http://www.lukew.com/ff/entry.asp?1392>
8. Yiibu, 2011.9.13, "Adaptation: Why responsive design actually begins on the server", <http://www.slideshare.net/yiibu/adaptation-why-responsive-design-actually-begins-on-the-server>
9. Thomas Byttebier, 2011.11, "Responsive web design", http://www.slideshare.net/bytte/responsive-web-design-10389263?from_search=3
10. Anders M. Andersen, 2011.11.9, "RESS - Responsive Design + Server Side Components", <http://www.slideshare.net/4nd3rsen/ress-responsive-design-server-side-components-10084972>
11. Pon Kattera, 2012.1.21, "Design Process in the Responsive Age", <http://www.slideshare.net/pkattera/design-process-for-responsive-web-design>
12. Mat Marquis, 2012.1.31, "Responsive Images: How they Almost Worked and What We Need", <http://alistapart.com/article/responsive-images-how-they-almost-worked-and-what-we-need>
13. Dave Olsen, 2012.2.21, "RESS, Server-Side Feature-Detection and the Evolution of Responsive Web Design", <http://dmolsen.com/2012/02/21/ress-and-the-evolution-of-responsive-web-design>
14. Mark Boulton, 2012.2.24, "Responsive Summit: Workflow", <http://www.markboulton.co.uk/journal/responsive-summit-workflow>
15. Guy Pod, 2012.4.16, "Performance Implications of Mobile Design", <http://www.slideshare.net/guypod/performance-implications-of-mobile-design>
16. Sara Cannon, 2012.5.7, "Responsive Design", http://www.slideshare.net/saracannon/responsive-design-12837964?from_search=2
17. Anders M. Andersen, 2012.5.9, "Getting started with RESS", <http://www.netmagazine.com/tutorials/getting-started-ress>
18. Dave Olsen, 2012.5.15, "RESS: An Evolution of Responsive Web Design", <http://www.slideshare.net/dmolsenwvu/ress-an-evolution-of-responsive-web-design>
19. Viljami Salminen, 2012.5.28, "RESPONSIVE WORKFLOW", <http://viljamis.com/blog/2012/responsive-workflow>
20. Tim Kadlec, 2012.10.4, "Blame the Implementation, Not the Technique", <http://timkadlec.com/2012/10/blame-the-implementation-not-the-technique>
21. Tim Kadlec, 2012.12.5, "Responsive Responsive Design", <http://24ways.org/2012/responsive-responsive-design>
22. Brad Frost, 2013.1.21, "The Post-PSD Era", <http://bradfrostweb.com/blog/post/the-post-psd-era>
23. Brad Frost, 2013.1.28, "Performance As Design", <http://bradfrostweb.com/blog/post/performance-as-design>
24. Josh Chan, 2013.4.1, "Responsive Web Design is Not the Future", <http://sixrevisions.com/mobile/responsive-web-design-not-the-future>
25. Brad Frost, 2013.4.1, "A Response to 'Responsive Web Design is Not the Future'", <http://bradfrostweb.com/blog/post/a-response-to-responsive-web-design-is-not-the-future>
26. Dave Olsen, 2013.4.16, "Measuring Web Performance", <http://www.slideshare.net/dmolsenwvu/measuring-web-performance-18921979?ref=http://www.dmolsen.com/2013/04/06/going-old-school-with-command-line-interfaces>



谢谢！



RTX:bennyzhai
@bienfantaisie
bienfantaisie@gmail.com