

渐进增强

一种优秀的Web开发思想

玉伯

Topics

- 一. 渐进增强是什么
- 二. 在工作中如何运用
- 三. HTML5 时代的渐进增强
- 四. 小结

一、渐进增强是什么？

英文：Progressive Enhancement
翻译：渐进增强
简写：PE





TaobaoUED



TaobaoUED

古典美女是怎么画成的？

背景
细节



- 分步骤，逐渐细化，每一步都有明确的目的
- 始终以人物为中心

渐进增强不会有明确的名词定义，它是一种思想，一种理念。

素描
轮廓



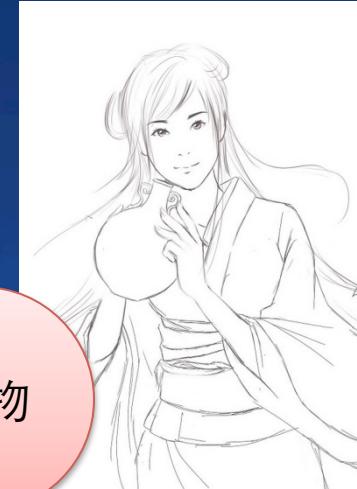
人物
上色



二、在工作中如何运用？

渐进增强的两个关键点

- 以内容为中心



人物

- 在工作流程中的体现



以内容为中心的两种理解

以内容
为中心

对于App（包括Client App和Web App）来说，是基本功能，是用户最需要最常用的部分

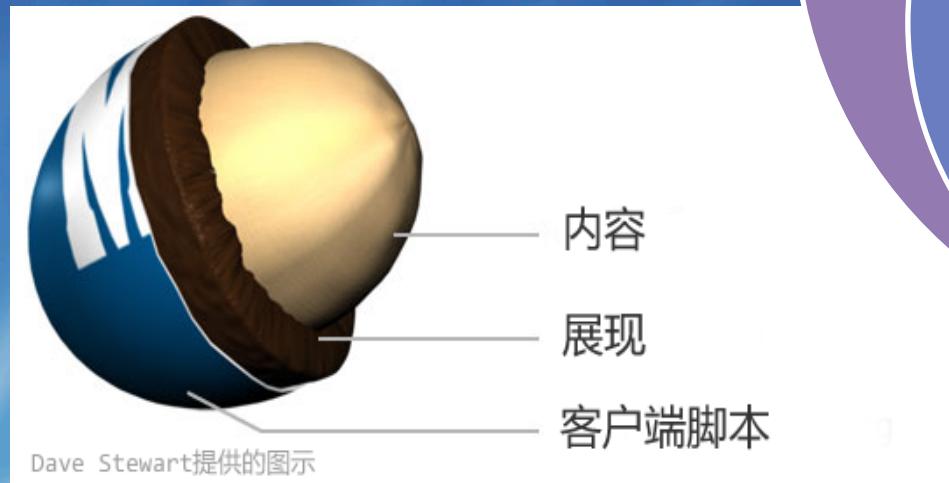
对于Web Page来说，是网页内容，
是一个页面要传达的信息

App中的以内容为中心



优秀的软件：Total Commander,
Firefox, WordPress, foobar2000,
Eclipse...

Web Page中的以内容为中心



JS行为

CSS表现

XHTML内容
结构 + 数据

实例：淘宝礼物频道

TA的性别是？

- 女
- 男
- 不限

TA的年龄是？

- 婴幼儿
- 儿童
- 少年
- 青年人
- 中年人
- 老年人
- 不限



► TA的性别是？

- 女
- 男
- 不限

► TA的年龄是？



滑块控件示例

婴儿 0 儿童 2 少年 12 青年 20 中年 35 成年 60 不限



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- 女
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► TA的年龄是？

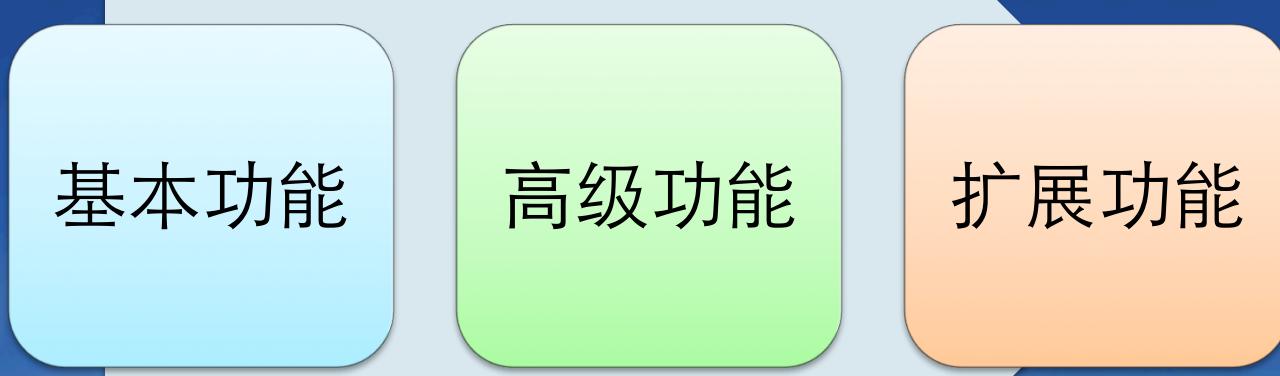


年龄不限

滑块控件示例

婴儿 0 儿童 2 少年 12 青年 20 中年 35 成年 60 不限

App 的 PE 工作流程



核心点：以功能为中心，分步骤、分层次开发

Web Page 的 PE 工作流程

基本体验

高级体验

升值体验

核心点：以内容为中心，分步骤、分层次开发

古典美女的无奈

优雅降级（Graceful Degradation），简称 GD



工作流程中的优雅降级

基本体验

降级体验

例子：先在 Chrome, Firefox 等现代浏览器上开发，
然后再针对 IE6 等浏览器降级

实例：Andy Clarke

IE 7

About us Learn about our background and how and why we do what we do

Our work See some of our past work, read about our process from designs to finished sites

Contact us Get on the dog and bone or write to us, here is our number and address



Based in North Wales, Staff and Nonsense is a small, but popular web design studio, founded and led by designer and author Andy Clarke. We started back in 1998 and have built an enviable reputation for designing highly effective web sites, ecommerce stores and web applications for our clients.

We create web sites that are visually engaging, use technologies appropriately, and that satisfy the needs of the people that use them. We focus on making simple, usable and attractive web sites using web standards technologies including XHTML and CSS; heck, we even wrote a book about it, *Transcending CSS: The Fine Art of Web Design*.

So why do our clients love us, and why do they keep coming back? We think it's because we are so passionate about our work, we love designing for the web. With every job we do, we try to learn something new about how to do things better.

Andy Clarke is hip and mature. You almost never get both in one person. A seasoned brand steward, a fancy pixel wrangler, and no mean hand at the guitar, Andy is quite the boozard.

Jeffrey Zeldman, Happy Cog | [Testimonials](#)

It is because of our passion and attention to the finest details, that we have attracted some big names to our small studio in North Wales. We also regularly promote creative, accessible, standards-based design in our writings, at conference, training and workshop events as well as in our everyday work.

Spotted the difference?

This is the all-new Staff and Nonsense web site. Things have changed a great deal around here since the last time you may have stopped by. This site is a merger of two domains, the Staff and Nonsense company portfolios plus the archives from And All That Malarkey.

If you have any comments or suggestions, or you find something out of place, please contact us. We look forward to hearing from you.

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Popular blog entries

[3rd CSS Zen Garden](#)
[Accessibility: On a shoe string](#)
[CSS: A show-off's guide](#)
[CSS: A tribute to selectors](#)
[Web Standards Trifecta](#)
[Design mood-boards](#)
[Invasion of the Self-Stickers](#)
[CSS: Specificity Wars](#)

IE 6

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Hey old timer!

We've spotted that you are using an out-of-date version of Internet Explorer. It's time to put on your parka and ride to a better browser such as [Explorer Z](#), [Firefox](#) or [Safari](#).

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淘宝实例：阴影

IE7,
Firefox
...



IE6



Why ?

基本体验

降级体验

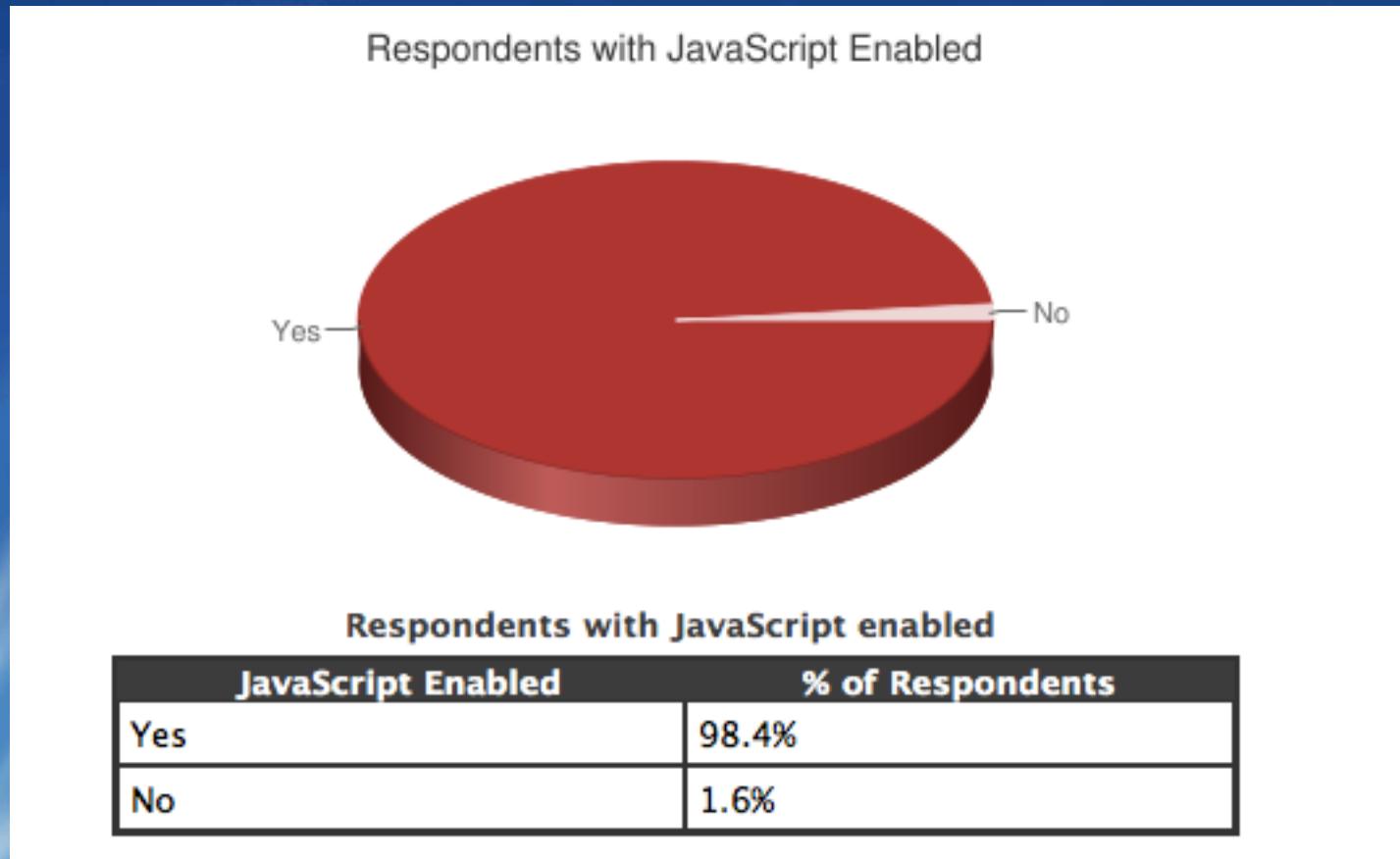
好处：对用户来说，好的浏览器更获取更好的体验；对开发人员来说，缩短了开发周期，同时能始终站在前端开发的前沿。

三、HTML5 时代的渐进增强

JavaScript 禁用率

- 雅虎首页禁用脚本率: ~1%
- 淘宝首页禁用脚本率: ~0.1%

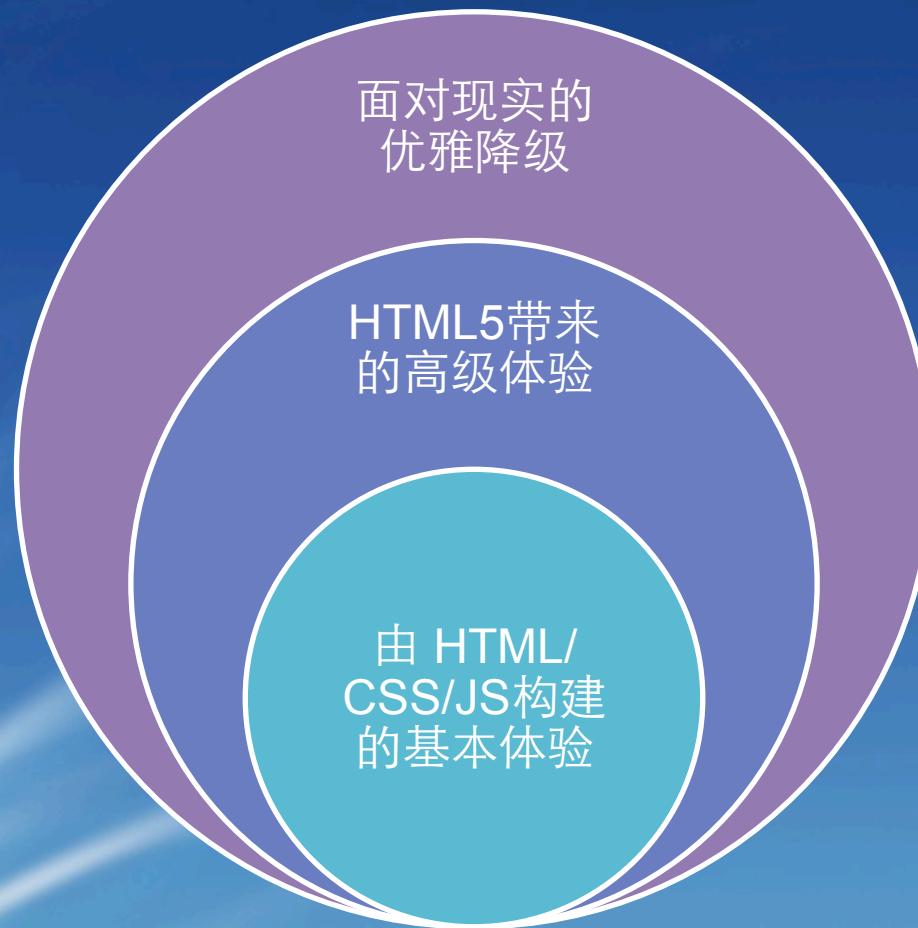
屏幕阅读器用户



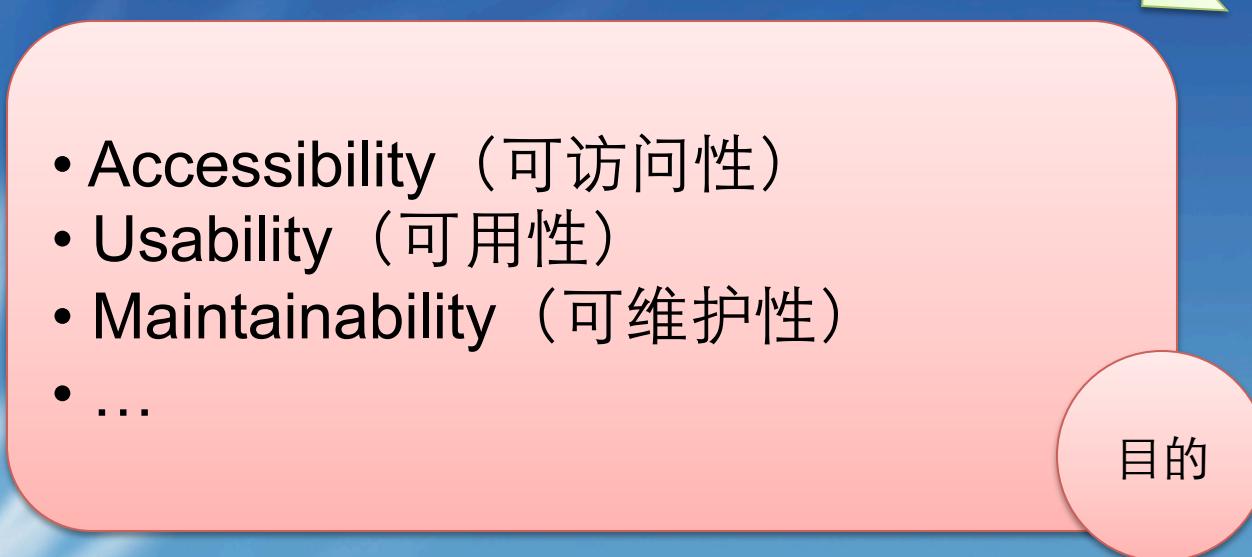
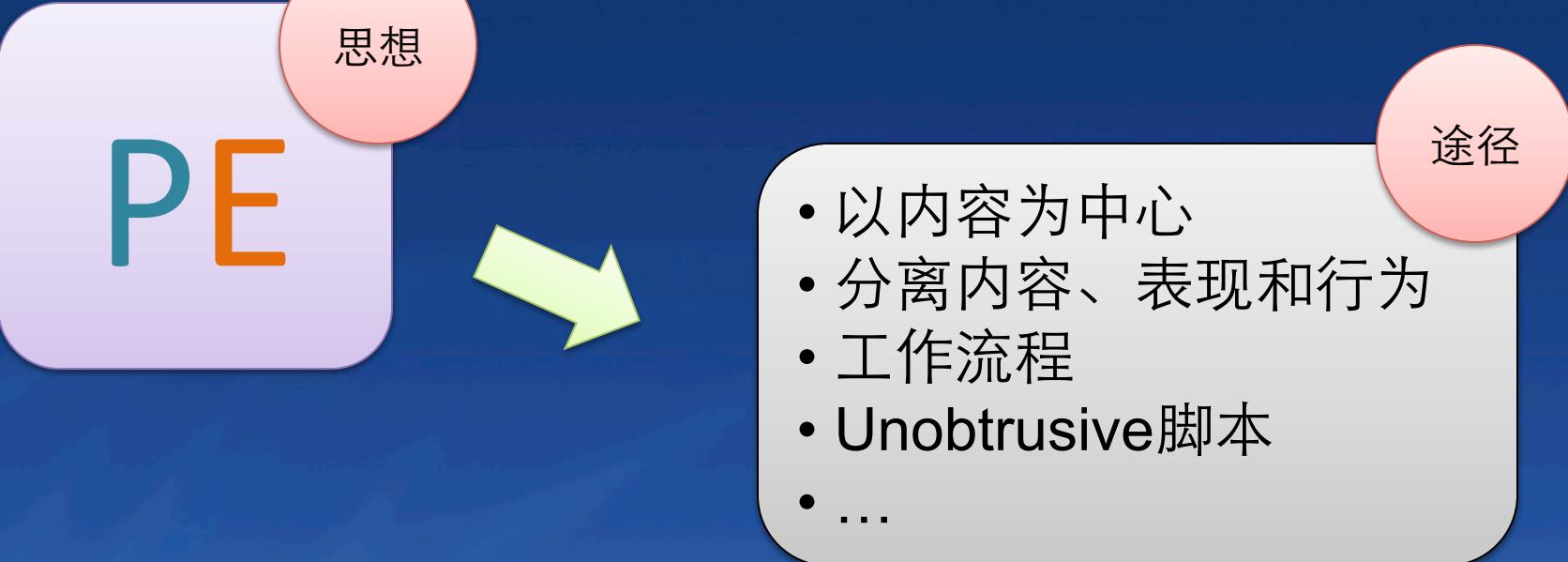
渐进增强也需要渐进增强



HTML5 时代的渐进增强



四、小结



key

- 以内容为核心，不抛弃，不放弃
- 考虑现代浏览器支持的高级体验
- 不同浏览器的效果不同，这是合理的
- 渐进增强也需要渐进增强

Q&A





资源

- Understanding Progressive Enhancement
- Progressive Enhancement with CSS
- Progressive Enhancement with JavaScript
- Unobtrusive JavaScript

Thanks!



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<http://lifesinger.wordpress.com/>