

<Web Components />

<!– the future of Web development --->

陈本峰 2014 – 6



信仰



作品

找不到服务器 - Microsoft Internet Explorer

文件(E) 编辑(E) 查看(V) 收藏(A) 工具(I) 帮助(H)

后退() 后退() 前进() 前进() 停止() 搜索 收藏夹 地图 邮件 打印 写入

地址(D) http://localhost:9764/用户登录界面/whg.html 转到 链接

无法显示网页

您正在查找的页当前不可用。 网站可能遇到支持问题，或者您需要 调整您的浏览器设置。

要试图修复网络连接问题，请单击 工具，然后单击“**诊断连接问题...**”

404

其他选项：

- 单击 刷新按钮，或稍后重试。
- 如果您已经在地址栏中输入该网页的地址，请确认其拼写正确。
- 要检查您的网络连接，请单击工具菜单，然后单击 **Internet 选项**。在**连接**选项卡上，单击**设置**。设置必须与您的局域网 (LAN) 管理员或 Internet 服务供应商 (ISP) 提供的一致。
- 查看您的 Internet 连接设置是否正确被检测。您可能设置让 Microsoft Windows 检查您的网站并自动发现网络连接设置 (如果



W3C®

HTML
5



一行JS代码将网页移动化



```
<div id="carousel-example-generic" class="carousel slide" data-ride="carousel">
  <!-- Indicators -->
  <ol class="carousel-indicators">
    <li data-target="#carousel-example-generic" data-slide-to="0" class="active"></li>
    <li data-target="#carousel-example-generic" data-slide-to="1"></li>
    <li data-target="#carousel-example-generic" data-slide-to="2"></li>
  </ol>

  <!-- Wrapper for slides -->
  <div class="carousel-inner">
    <div class="item active">
      
      <div class="carousel-caption">
        ...
      </div>
    </div>
    ...
  </div>

  <!-- Controls -->
  <a class="left carousel-control" href="#carousel-example-generic" data-slide="prev">
    <span class="glyphicon glyphicon-chevron-left"></span>
  </a>
  <a class="right carousel-control" href="#carousel-example-generic" data-slide="next">
    <span class="glyphicon glyphicon-chevron-right"></span>
  </a>
</div>
```

Bootstrap 轮播图组件的 引用方式

如果可以这样...

<my-slider>

</my-slider>

```
<div id="carousel-example-generic" class="carousel slide" data-ride="carousel">
  <!-- Indicators -->
  <ol class="carousel-indicators">
    <li data-target="#carousel-example-generic" data-slide-to="0" class="active"></li>
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  <!-- Wrapper for slides -->
  <div class="carousel-inner">
    <div class="item active">
      
      <div class="carousel-caption">
        ...
      </div>
    </div>
    ...
  </div>

  <!-- Controls -->
  <a class="left carousel-control" href="#carousel-example-generic" data-slide="prev">
    <span class="glyphicon glyphicon-chevron-left"></span>
  </a>
  <a class="right carousel-control" href="#carousel-example-generic" data-slide="next">
    <span class="glyphicon glyphicon-chevron-right"></span>
  </a>
</div>
```



- Template
- Custom Element
- Shadow DOM
- HTML Imports

目前的做法

```
<script id="indexTemplate" type="text/template">  
    <h1>Inside a template </h1>  
      
</script>
```

使用<template>元素

```
<template id="indexTemplate">  
    <h1>Inside a template</h1>  
      
</template>
```

```
var template = document.getElementById('indexTemplate');  
holder.appendChild(template.content.cloneNode(true));
```

<template>元素特点

- 内容被解析，但是不显示
- 图片资源不会被下载
- 脚本资源不会被下载或者执行

... 直到它被使用

<my-slider>

</my-slider>

利用Custom Element创建<my-slider>元素

```
<template>
  <!-- 关于my slider的所有代码 -->
</template>

<script>
var tmpl = document.querySelector('template');

var ImgSliderProto = Object.create(HTMLElement.prototype);
ImgSliderProto.createdCallback = function() {
  var root = this.createShadowRoot();
  root.appendChild(document.importNode(tmpl.content, true));
};

var ImgSlider = document.registerElement('my-slider', { prototype: ImgSliderProto});
</script>
```

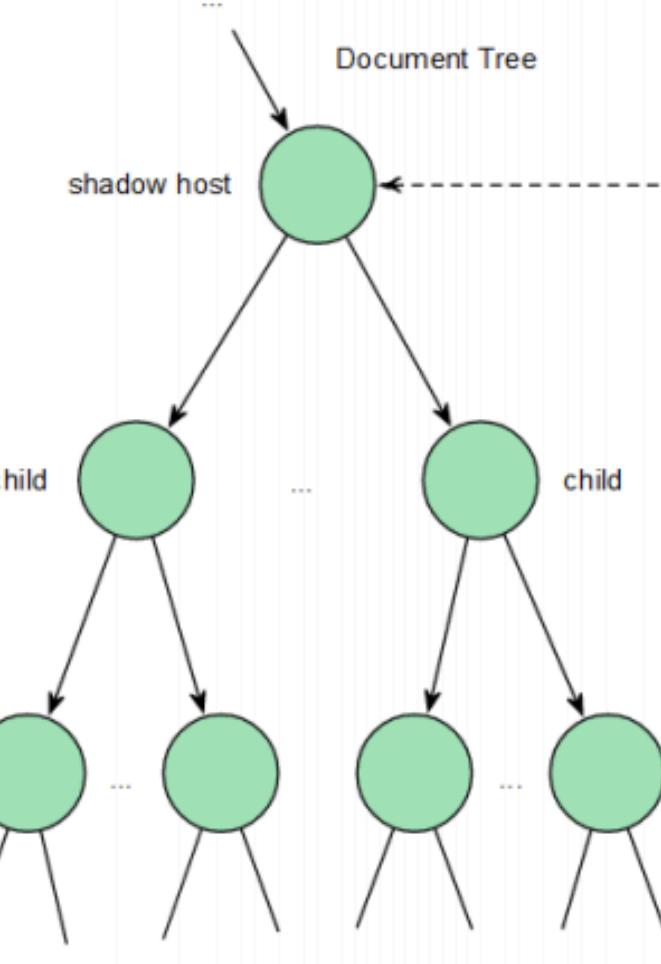


Shadow DOM

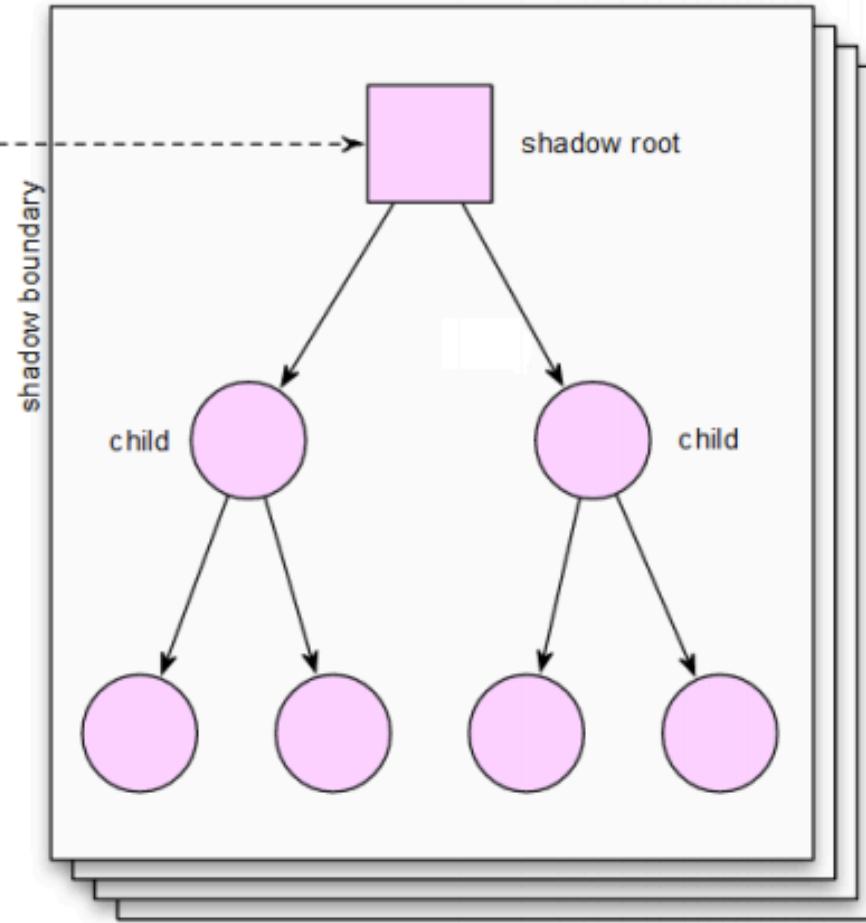
The screenshot shows a video player interface in a browser window titled "shadow-dom.html". The video frame displays a man speaking on stage at a conference. A tooltip in the bottom-left corner of the video frame indicates "input 30px x 30px". Below the video is a control bar with a play button, a volume icon, and a timestamp "03:27". The browser's developer tools are open, specifically the "Elements" tab. The element tree on the left shows the following structure:

- <head>
- </head>
- <body>
- <video width="640" height="360" controls>
- #document-fragment
- <div>
- <div style="display: none;"></div>
- <div>
- <div>
- <input type="button">
- <input type="range" precision="float" max="1975.27">
- #document-fragment
- <div>
- <div pseudo="-webkit-slider-runnable-track">

The "video" element is selected in the tree. The right panel shows the "Computed Style" and "Styles" sections. The "Computed Style" section lists "Show inherited" and "element.style { }". The "Styles" section shows a rule for "video[Attributes Style] { width: 640px; height: 360px; }". Other sections include Metrics, Properties, DOM Breakpoints, and Event Listeners.



Shadow DOM Subtrees



Shadow DOM 特点

- 挂载在某一个元素下面，但是不在DOM里面显示
- 完全独立当前文档，不受当前文档样式的影响

```
<link rel="import" href="my-slider.html">
```

完整代码示例

myslider.html 代码

```
<template id="myslider">
  ... <!-- slider 的完全代码 -->
</template>
<script>
  var sliderProto = Object.create(HTMLElement.prototype);
  sliderProto.createdCallback = function() {
    var template = document.querySelector('#myslider');
    var shadowRoot = this.createShadowRoot();
    var clone = template.content.cloneNode(true);
    shadowRoot.appendChild(clone);
  };
  document.register('myslider', {prototype: sliderProto});
</script>
```

index.html 代码

```
<link rel="import" href="myslider.html">
<myslider></myslider>
```

Templates



Custom Elements

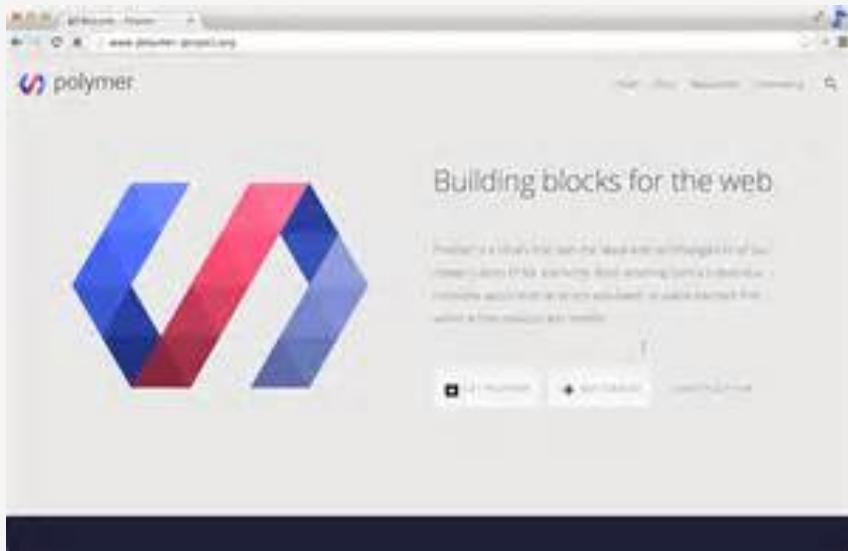


Shadow DOM

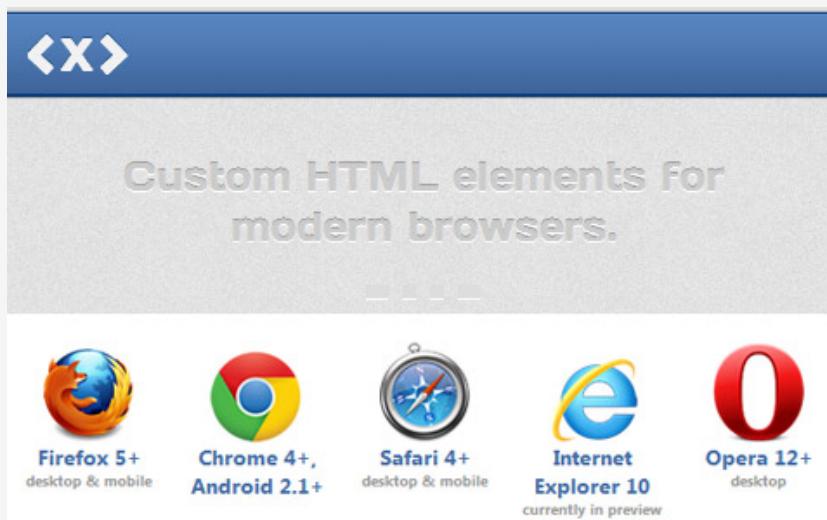


HTML Imports





<http://www.polymer-project.org/>



<http://x-tags.org/>



Amaze UI

中国首个开源 HTML5 跨屏前端框架

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