

PLANNING ADAPTIVE INTERFACES



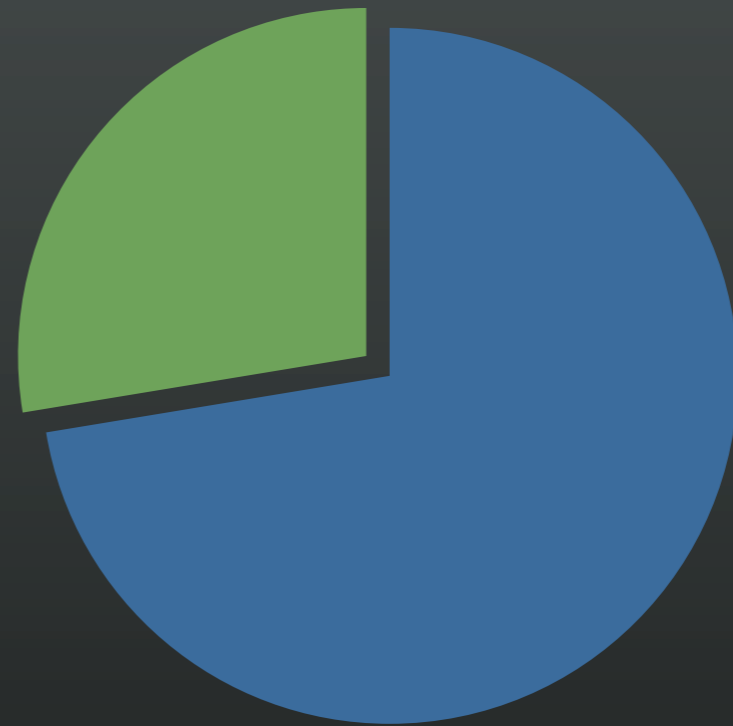
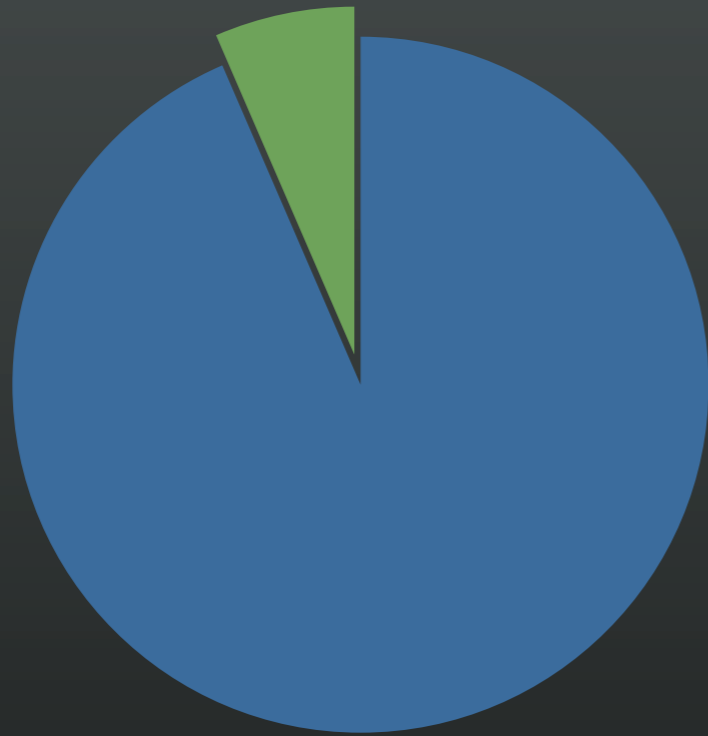
Aaron Gustafson
@aarongustafson
slideshare.net/AaronGustafson



“ Just four years ago the majority of our visitors saw our website in Internet Explorer on a Windows computer on a minimum 1,024 pixel wide screen. Times have really changed.

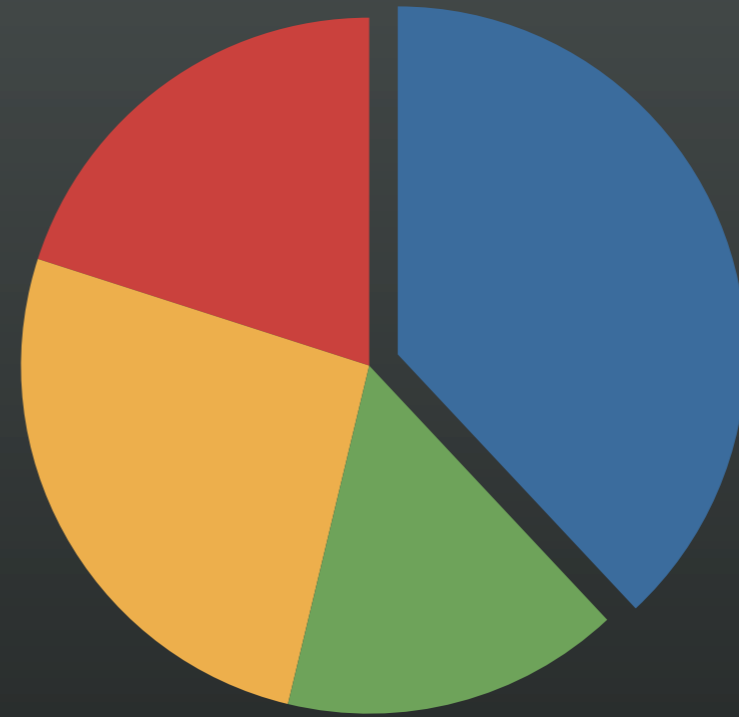
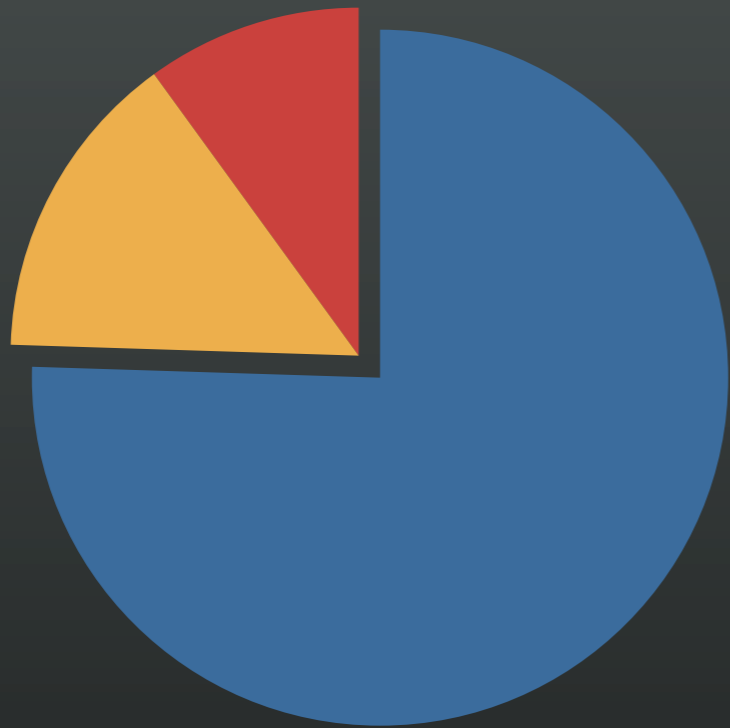
Jason Samuels
IT Manager,
National Council on Family Relations

[Source](#)



“Windows users used to comprise 93.5% of our web visits. Now that percentage is 72.4%. Visitors using a Mac have more than tripled.”

“The percentage visiting from a mobile device or tablet ... was just 0.1% in 2008. It has since grown exponentially, **200-400% per year,** to 6.2% today.



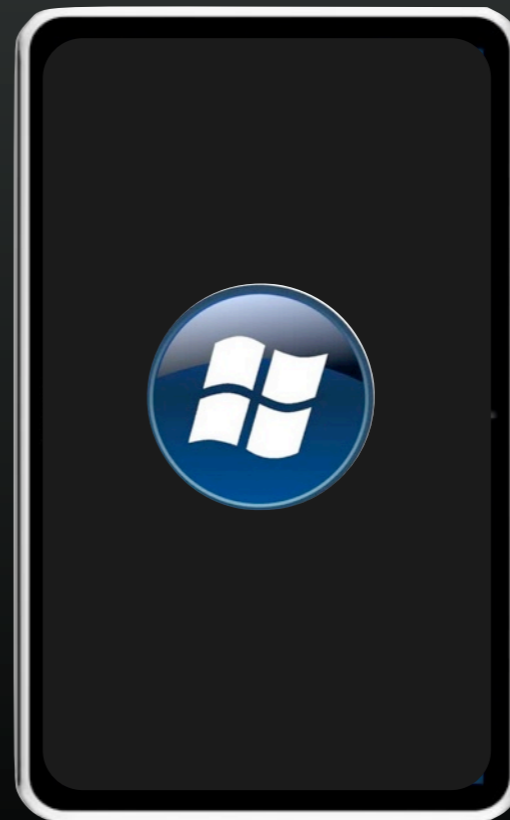
“

Four years ago 75.5% of our web visitors used Internet Explorer. That number has fallen to 37%. Firefox now comprises 25.5%, Safari 19.5%, and Chrome 15.3%.

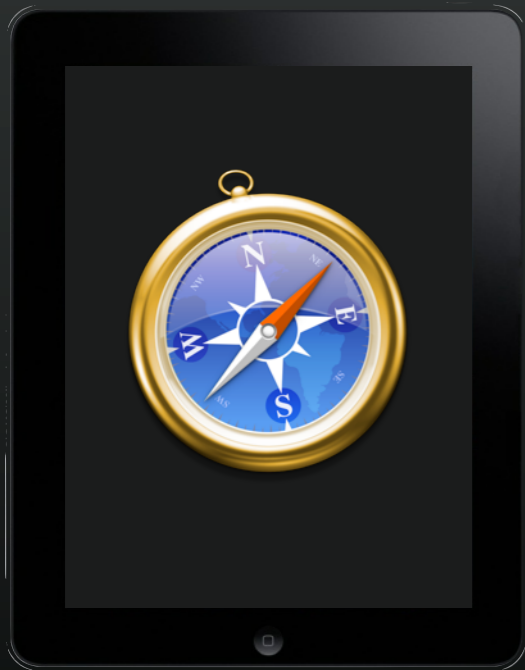
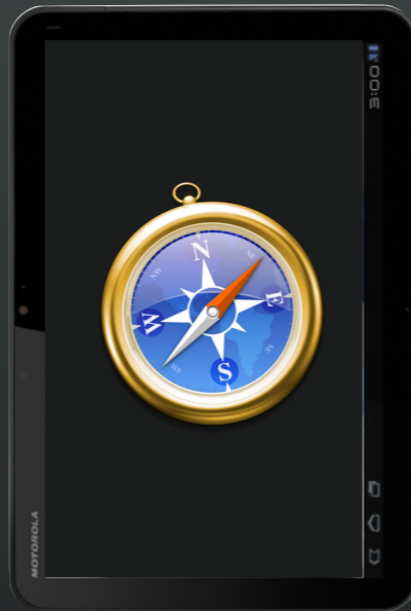
“ In the second quarter of 2008 we detected 71 different screen resolutions among our visitors. In the first quarter of 2012 we detected **830**



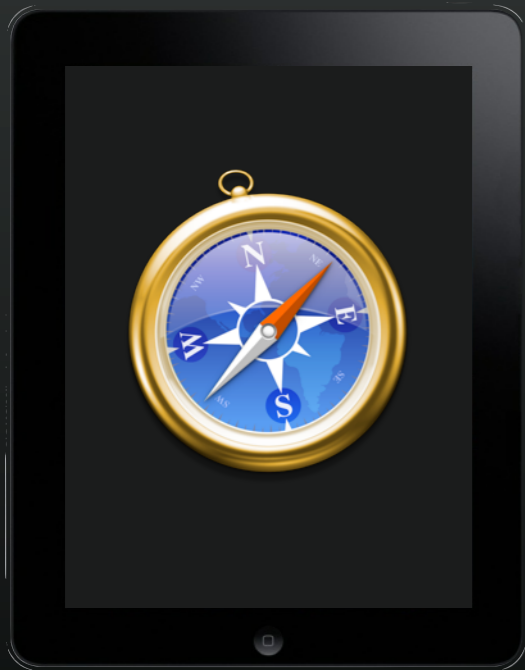
Perception



Perception



Perception



Perception



**“There is no WebKit
on Mobile**

— Peter-Paul Koch

WebKit *vs.* Acid3

Test	Symb 1	Symb 2	Symb 3	S40	iOS 2.2	iOS 3.1	iOS 4.2	And 1.0	And 1.6	And 2	And 3	Dolphin	BB 6	BB PB	Phantom	Palm 2.0	Palm 2.1	Bolt 1.5	Ozone 0.9	Obigo 10	WeTab
Acid3 Test	fail	47	fail	74	100	100	100	72	92	93	100	98	100	100	91	69	92	76	93	93	100
Score in the Acid3 test 90 points	<p>Android 1.6 scores 93 points instead of 92.</p> <ol style="list-style-type: none"> 100: Yes 91-99 : Almost 71-90 : Alternative 51-70: Incomplete 31-50 : Incorrect 11-30 : Minimal 0-10 : No <ul style="list-style-type: none"> Obigo WK encounters an unsupported media type after getting 69 points. Remove the error message, wait for a few seconds, and it will resume the test and end up at 93 points. Palm 2.1 does something similar, although you don't have to remove the error message. 																				

http://www.quirksmode.org/webkit_mobile.html

WebKit *vs.* Acid3

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http://www.quirksmode.org/webkit_mobile.html

**“Surely there’s
platform
consistency!?!“**

— Any sane individual

**“There is no Android
— Stephanie Rieger**

17.	Android	993x1688	6	1.50	00:00:46	100.00%	50.00%
18.	Android	480x679	2	1.50	00:00:15	100.00%	50.00%
19.	Android	993x1574	4	2.00	00:01:20	100.00%	50.00%
20.	Android	993x1537	1	1.00	00:00:00	100.00%	100.00%
21.	Android	320x201	3	1.33	00:00:04	100.00%	66.67%
22.	Android	993x663	1	2.00	00:00:33	100.00%	0.00%
23.	Android	600x937	1	3.00	00:03:23	100.00%	0.00%
24.	Android	800x1125	21	1.19	00:00:20	80.95%	85.71%
25.	Android	480x369	1	1.00	00:00:00	100.00%	100.00%
26.	Android	320x473	45	2.09	00:00:30	64.44%	66.67%
27.	Android	369x628	2	5.50	00:02:34	100.00%	0.00%
28.	Android	800x447	1	6.00	00:03:14	100.00%	0.00%
29.	Android	993x514	9	1.44	00:00:53	88.89%	88.89%
30.	Android	993x616	1	1.00	00:00:00	100.00%	100.00%
31.	Android	1025x508	1	2.00	00:00:28	100.00%	0.00%
32.	Android	993x444	4	2.00	00:00:36	100.00%	75.00%
33.	Android	480x762	525	4.53	00:02:47	87.81%	6.86%
34.	Android	320x320	1	1.00	00:00:00	100.00%	100.00%
35.	Android	470x725	1	1.00	00:00:00	100.00%	100.00%
36.	Android	993x1149	2	1.50	00:00:15	100.00%	50.00%
37.	Android	600x1024	2	13.00	00:18:31	100.00%	0.00%
38.	Android	480x700	1	8.00	00:01:34	100.00%	0.00%

<http://yfrog.com/z/ob5kndj>

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18.	Android	480x679	2	1.50	00:00:15	100.00%	50.00%
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<http://yfrog.com/z/ob5kndj>

**But Android
is **NOT** unique
in this**

The culprits?
SCREEN SIZE

The culprits?
EMBEDDED VIEWS

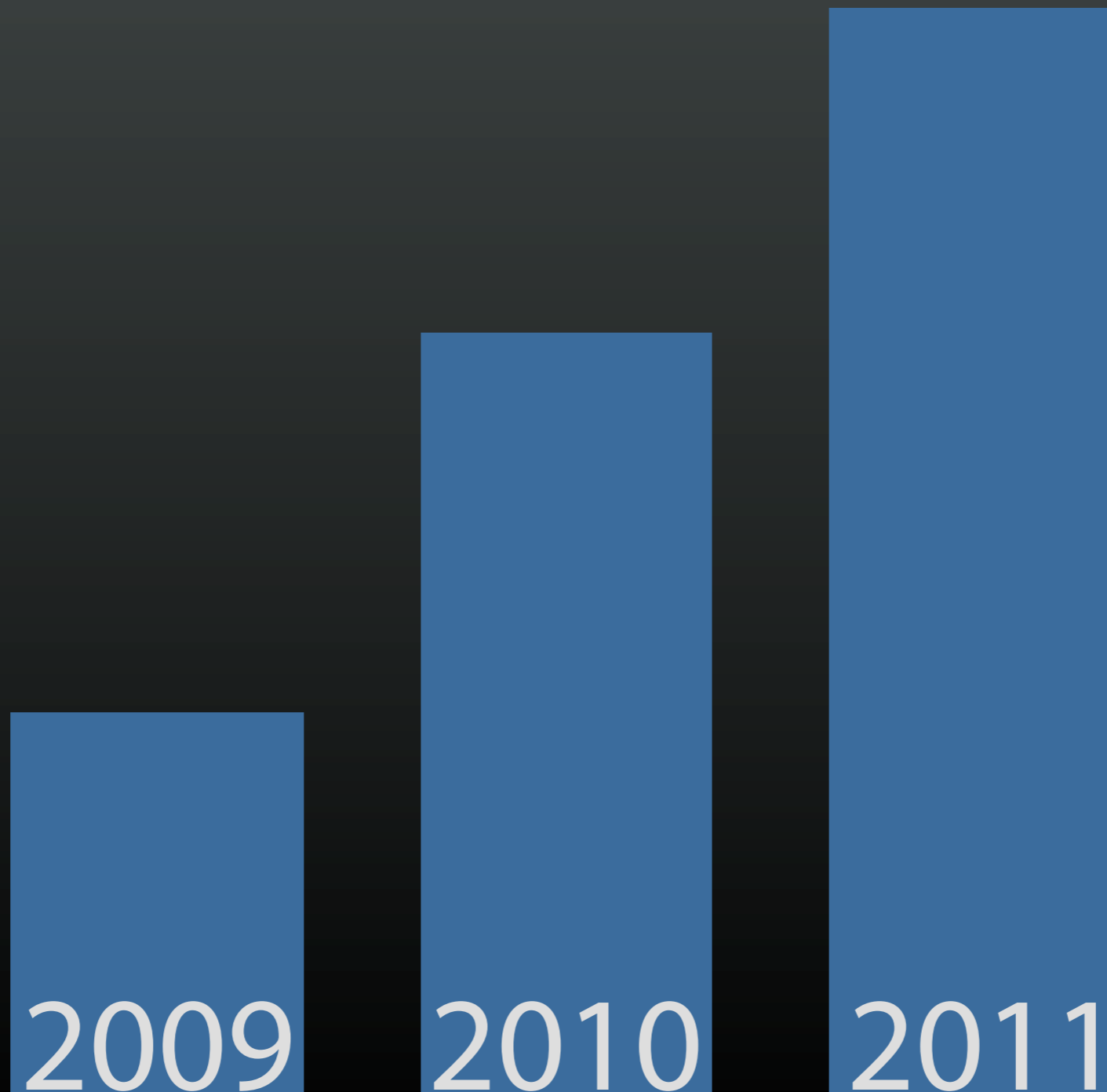
The culprits?
BROWSER CHROME

The culprits?
ZOOM LEVEL

The culprits? **ZOOM LEVEL**

(Ok, this one's on Android)

6 Billion



Over **80%**
of these are
FEATURE PHONES,
not smartphones

especially in
**DEVELOPING
COUNTRIES**

Internet in Kenya
MOBILE = 90%

The reality



SYLVANIA

WIRELESS MOBILE INTERNET DEVICE



Microsoft®
Windows CE



E-mail



Web Browsing


facebook

Social Networking

You Tube™

YouTube
Video Streaming



A busy city street scene, likely Hollywood Boulevard, with a crowd of people. In the foreground, several people are dressed as zombies, wearing tattered clothing and fake blood. One woman in a red and white plaid dress is looking down at a smartphone. In the background, there are buildings with signs for 'ELECTRONICS' and 'GUESS'. A street sign shows the numbers 217, 222, 312, and 780. A 'NO SKATEBOARDING' sign is also visible. The overall atmosphere is one of a crowded, urban environment.

“The commoditization of smartphone hardware is just the beginning ... of a huge new wave of cheap devices about to invade our lives—a zombie apocalypse of electronics, if you will.

— Scott Jenson





We **DON'T** know



We **DON'T** know

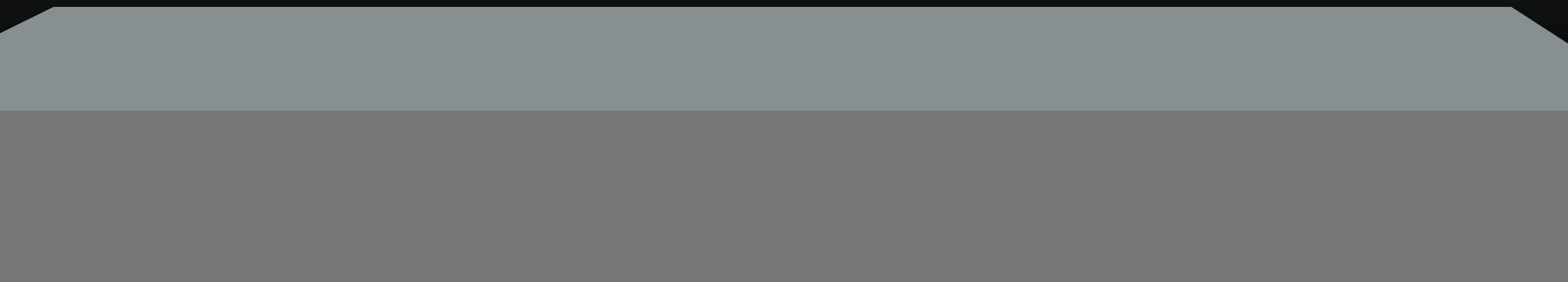
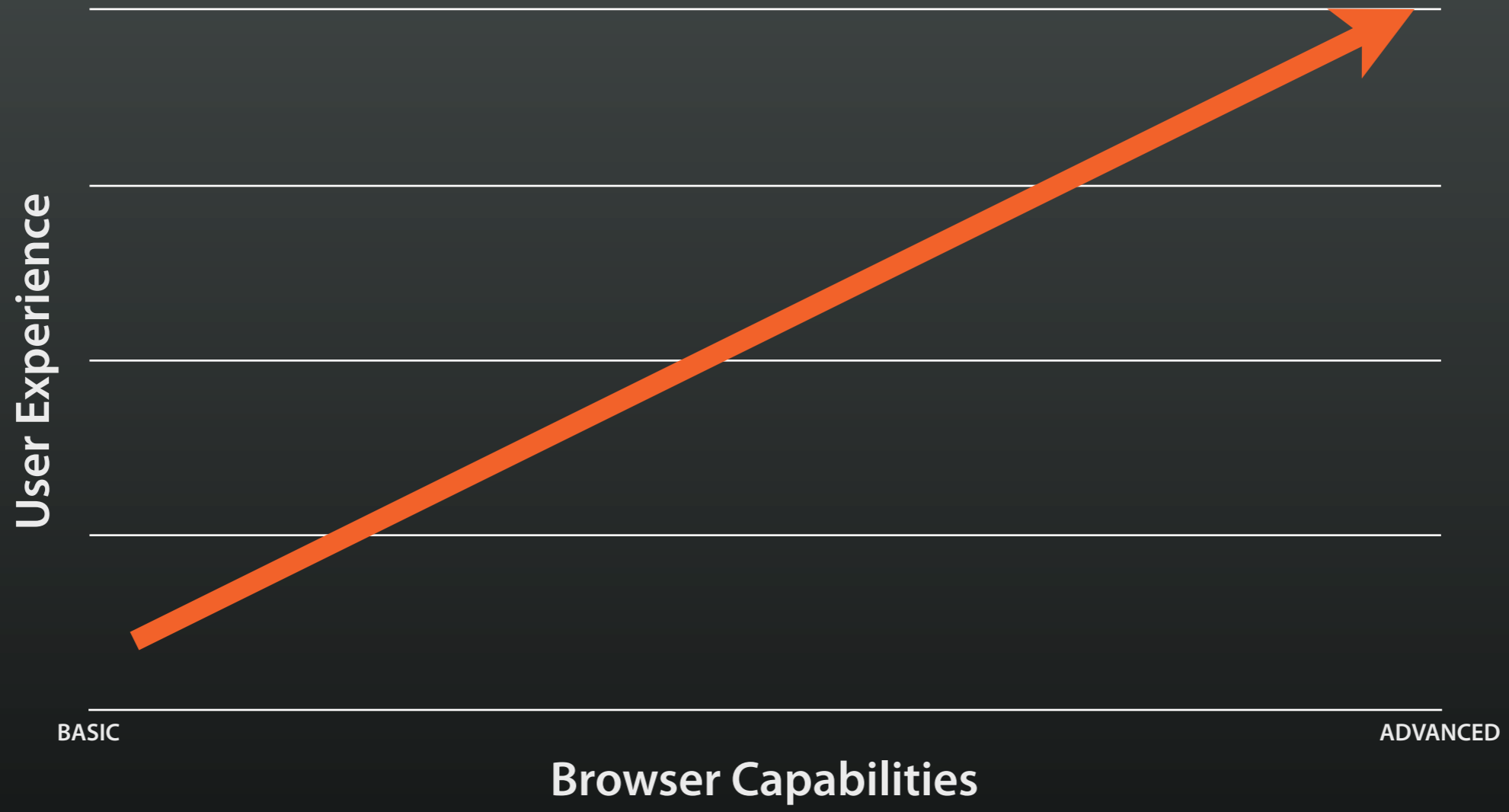
Even when
we think
we know,
**WE ARE
PROBABLY
WRONG**

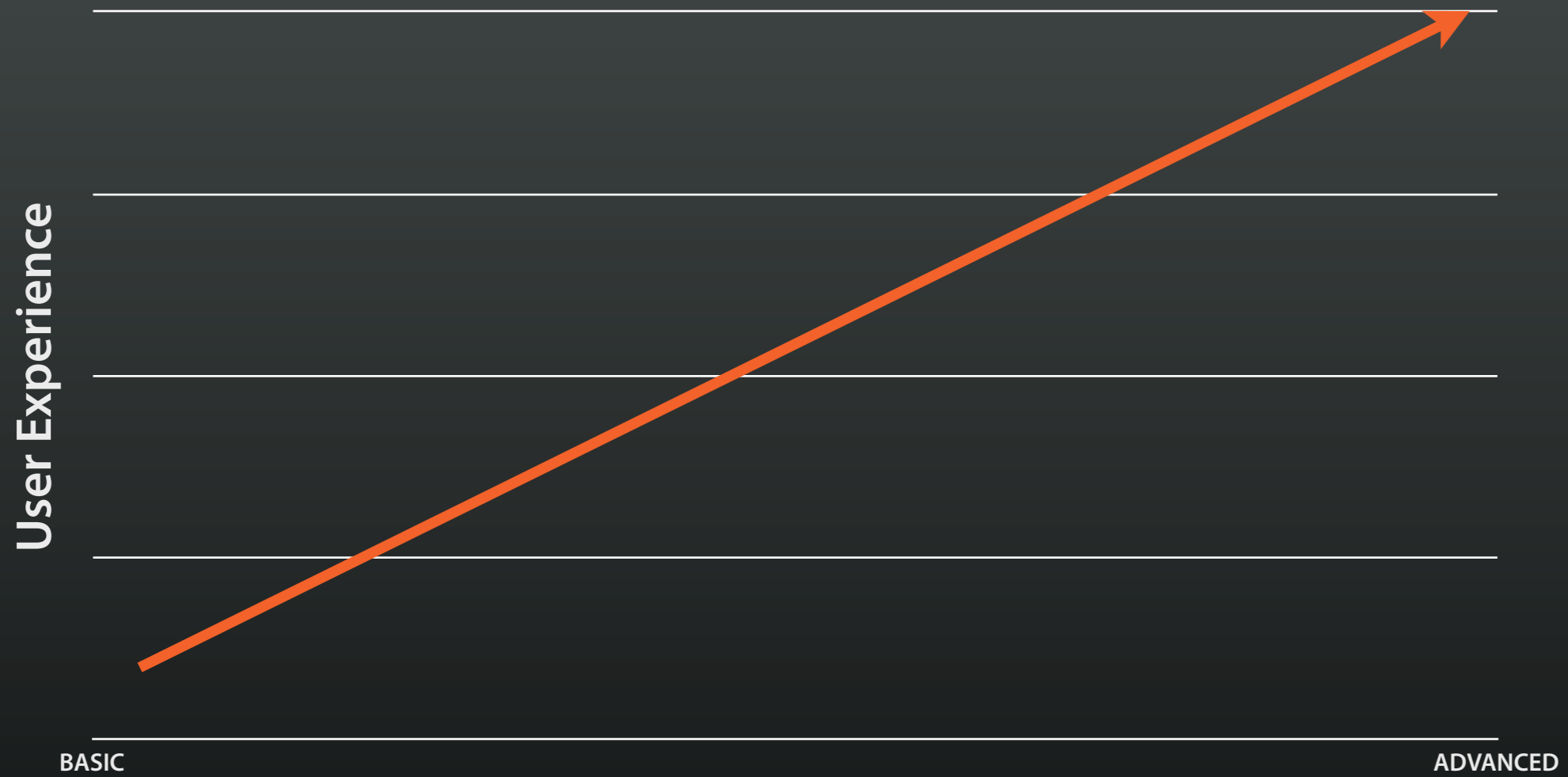
So how
do we **COPE**?

Progressive Enhancement

**Technological
restrictions**



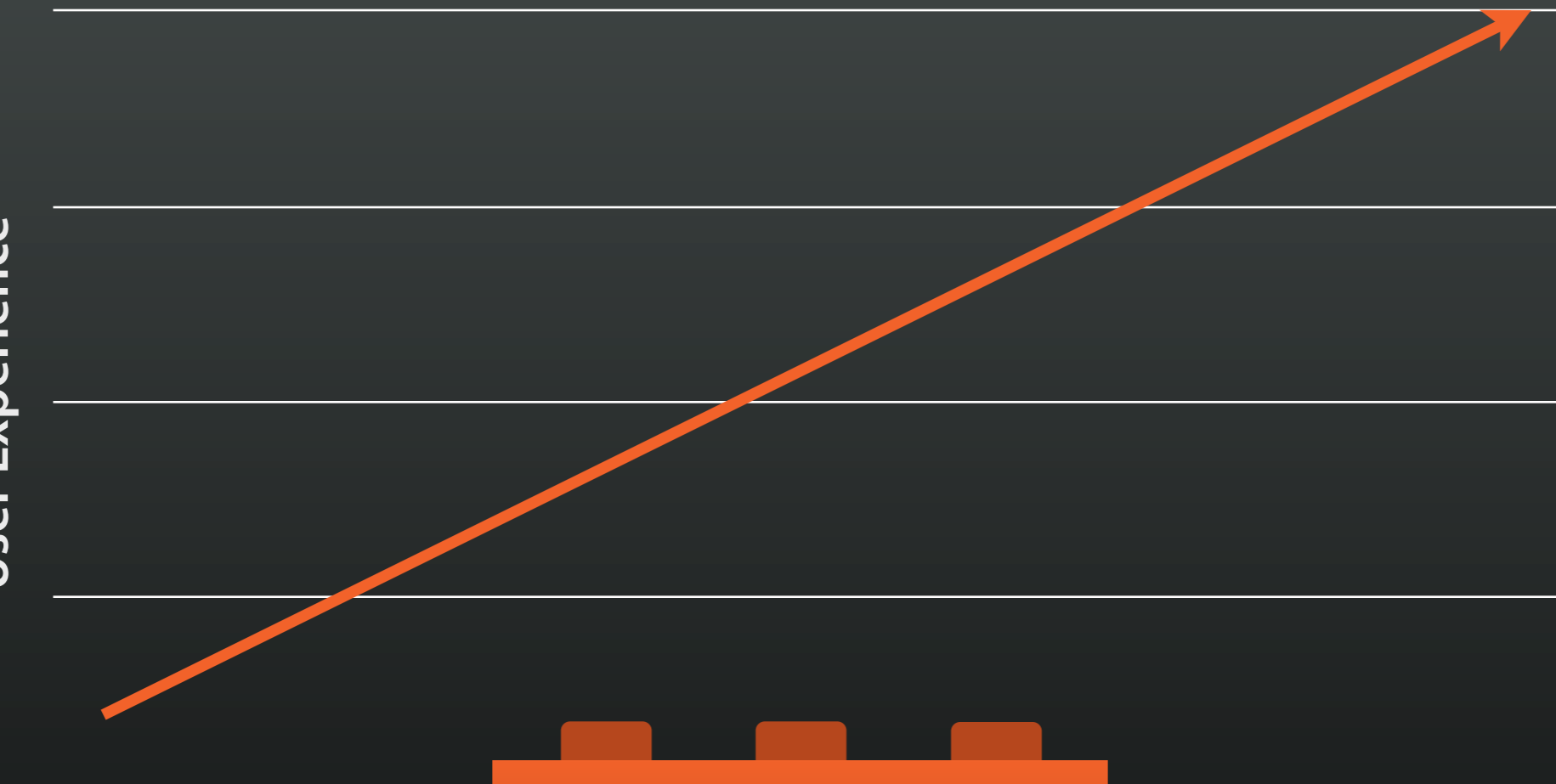




Browser Capabilities

Content

User Experience

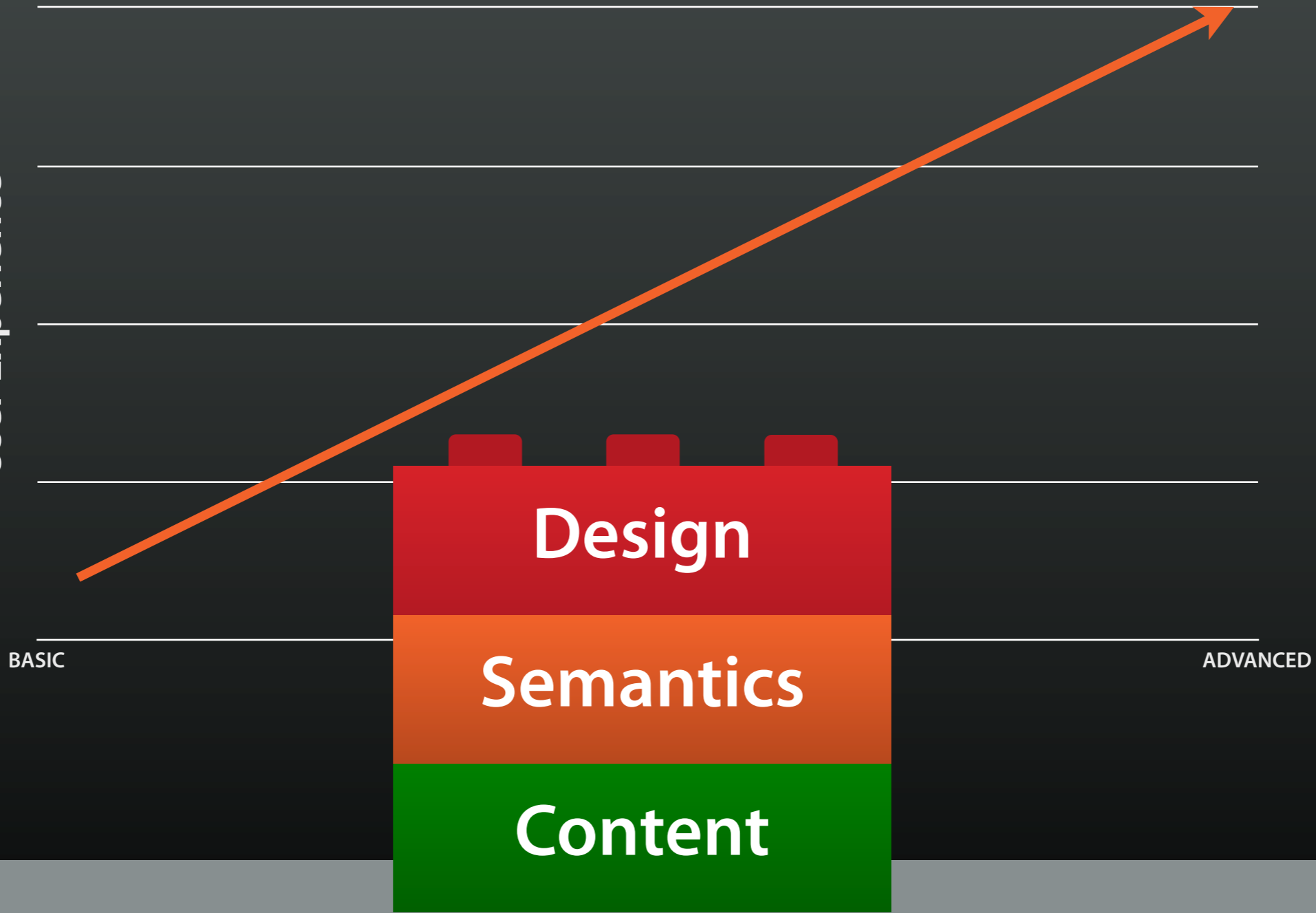


BASIC

ADVANCED



User Experience



BASIC

ADVANCED

Design

Semantics

Content

User Experience

BASIC

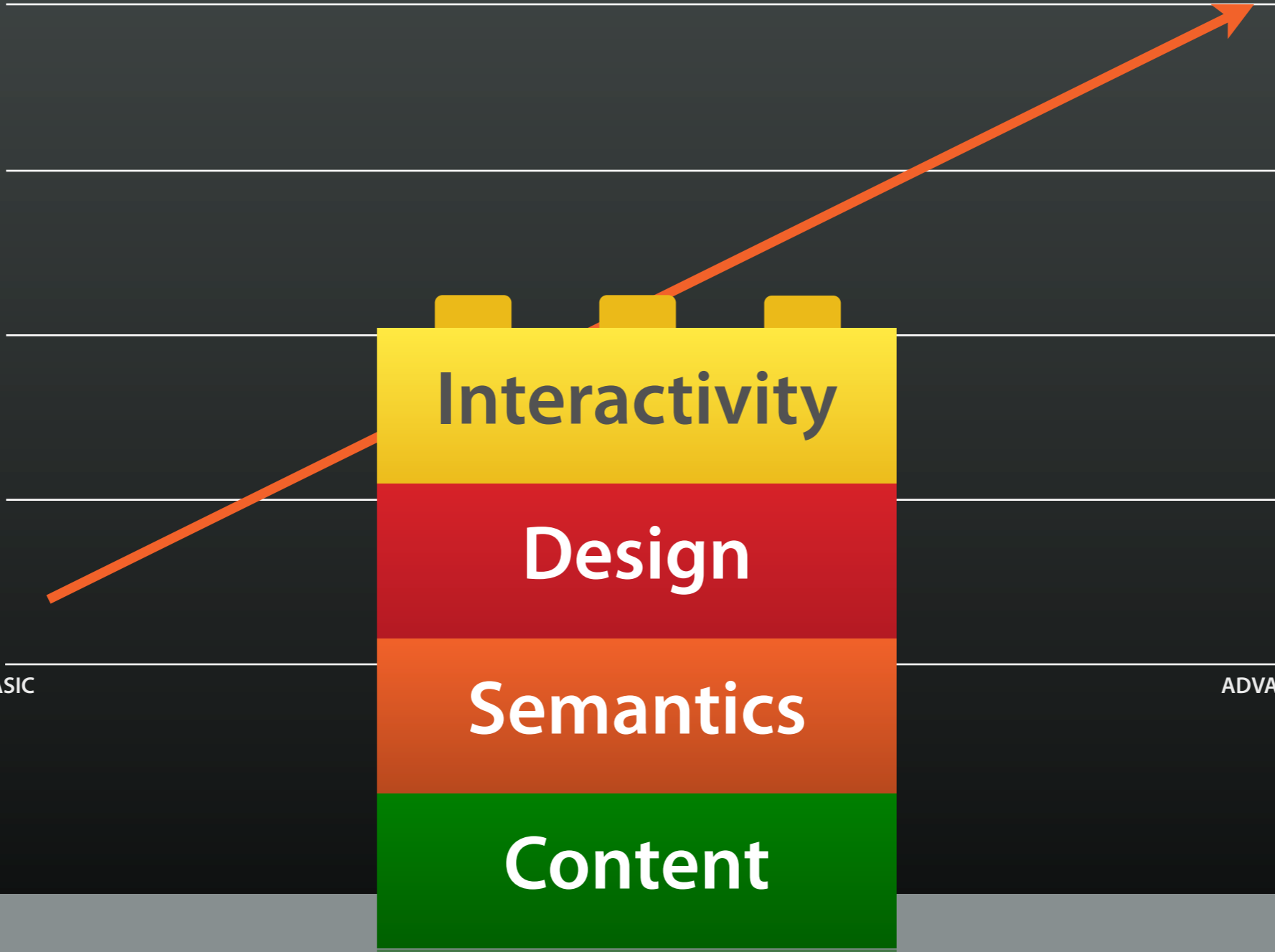
ADVANCED

Interactivity

Design

Semantics

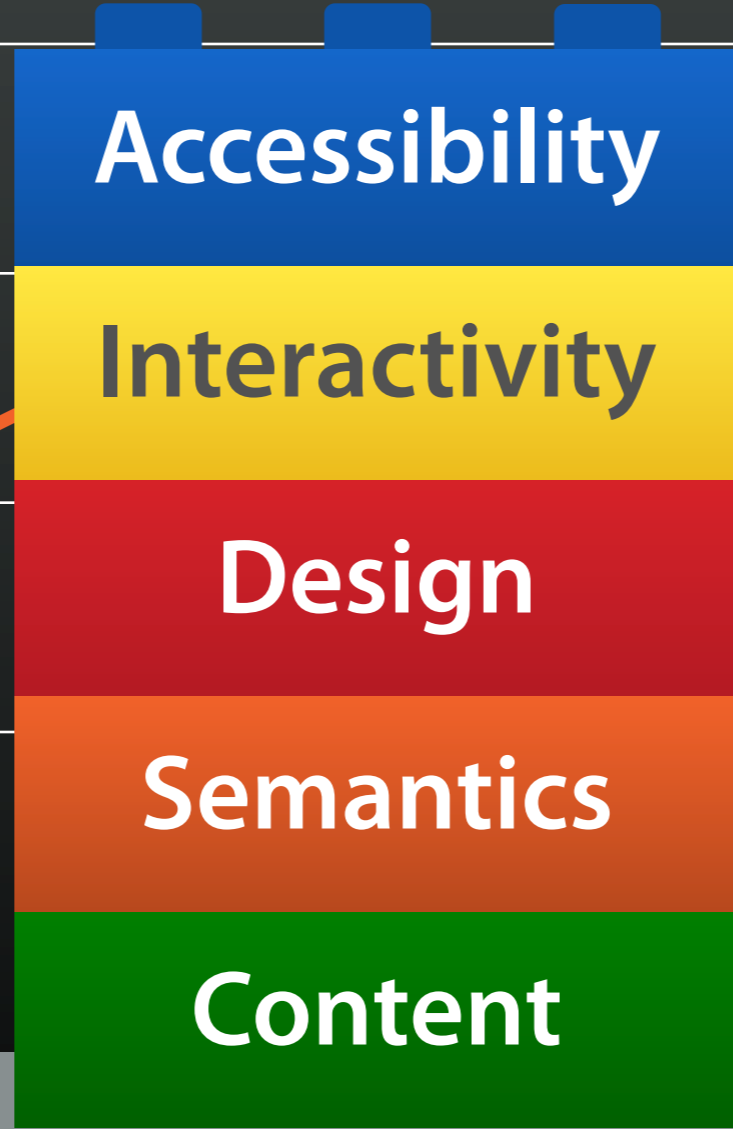
Content



User Experience

BASIC

ADVANCED



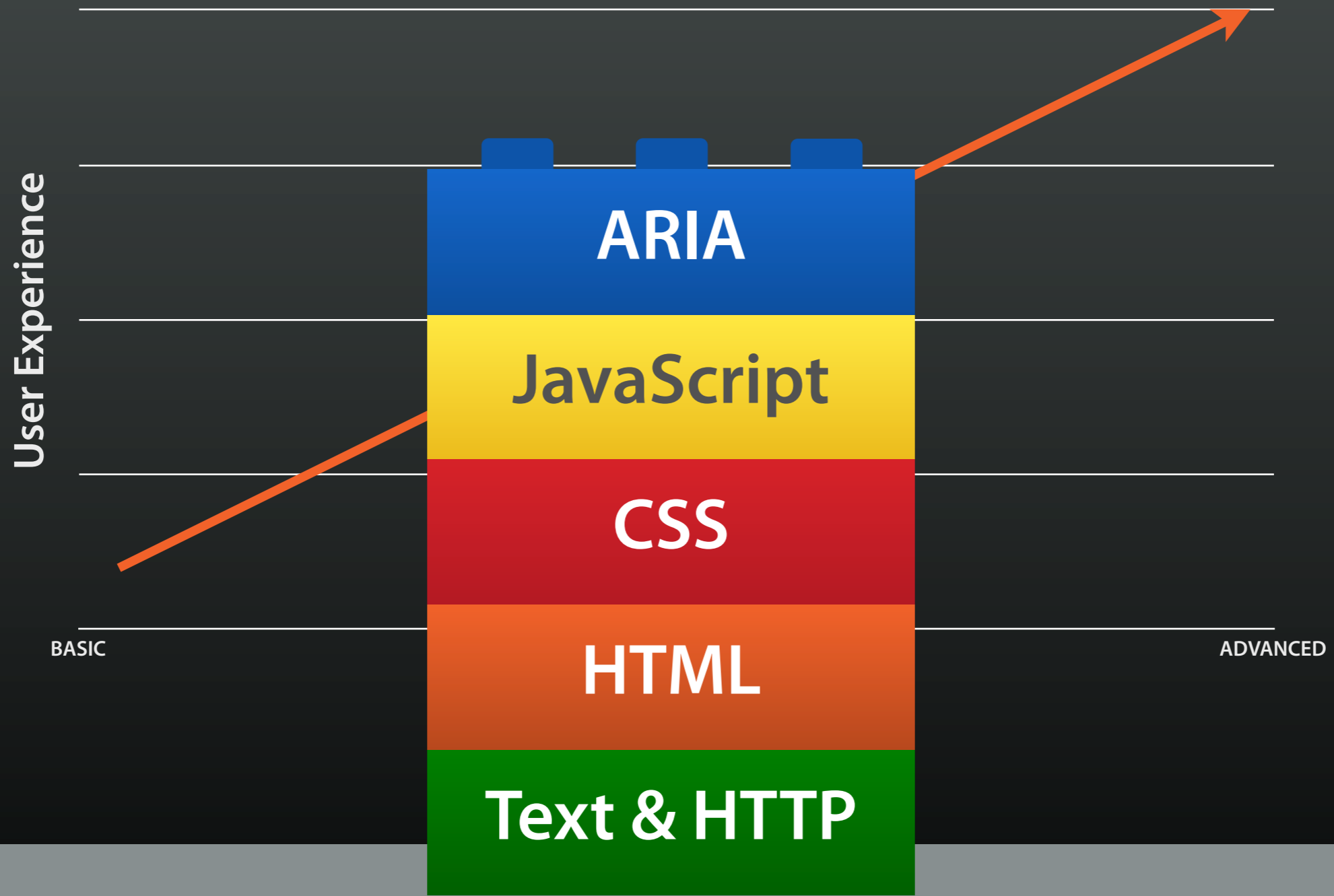
Accessibility

Interactivity

Design

Semantics

Content





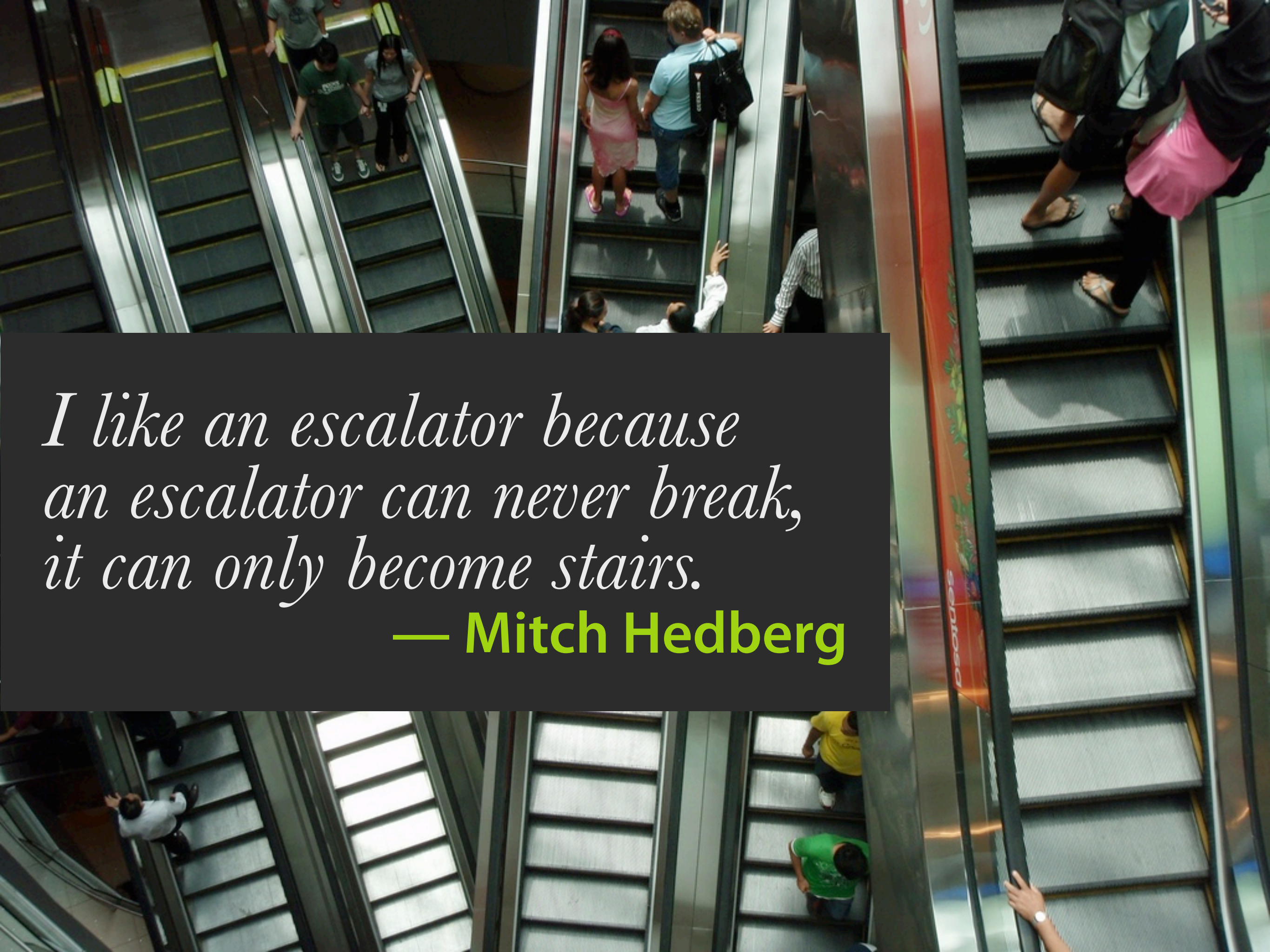
HTML



HTML5

Microformats

HTML4



*I like an escalator because
an escalator can never break,
it can only become stairs.*

— **Mitch Hedberg**



Andrew Wight

@AndrewUX

Progressive enhancement is an escalator that becomes stairs.
Graceful degradation is building a lift then having to add stairs.

14 May 12

 Reply  Retweet  Favorite

Graceful Degradation

Modern Browsers

Older Browsers

Modern Browsers



Older Browsers

Modern Browsers



Older Browsers



WEEKENDHACKER

WEEKENDHACKER

Make the Best of Your Travel Plans This Weekend

BY WHITSON

Share

The holidays are upon us, and if you're going to spend them you're probably going to be dealing with the stress that is travel. Here are some tips for making travel as pain-free as possible. [More »](#)

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- Discover Some New Music This Weekend
- Find Yourself Some Great Deals This Weekend

WEB SITES



TAXES



LOGIN

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...you'll find it waiting in your basket online.


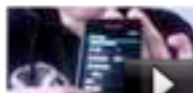


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-  **WEEKENDHACKER** 5:00 PM
Make the Best of Your Travel Plans This Weekend
-  **FOR WHAT IT'S WORTH** 4:00 PM
Remains of the Day: Ice Cream

a dynamic web page can never break, it can only become a web page.

▸ The Ultimate Black Friday Gadget

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TIPS AND DOWNLOADS FOR
GETTING THINGS DONE

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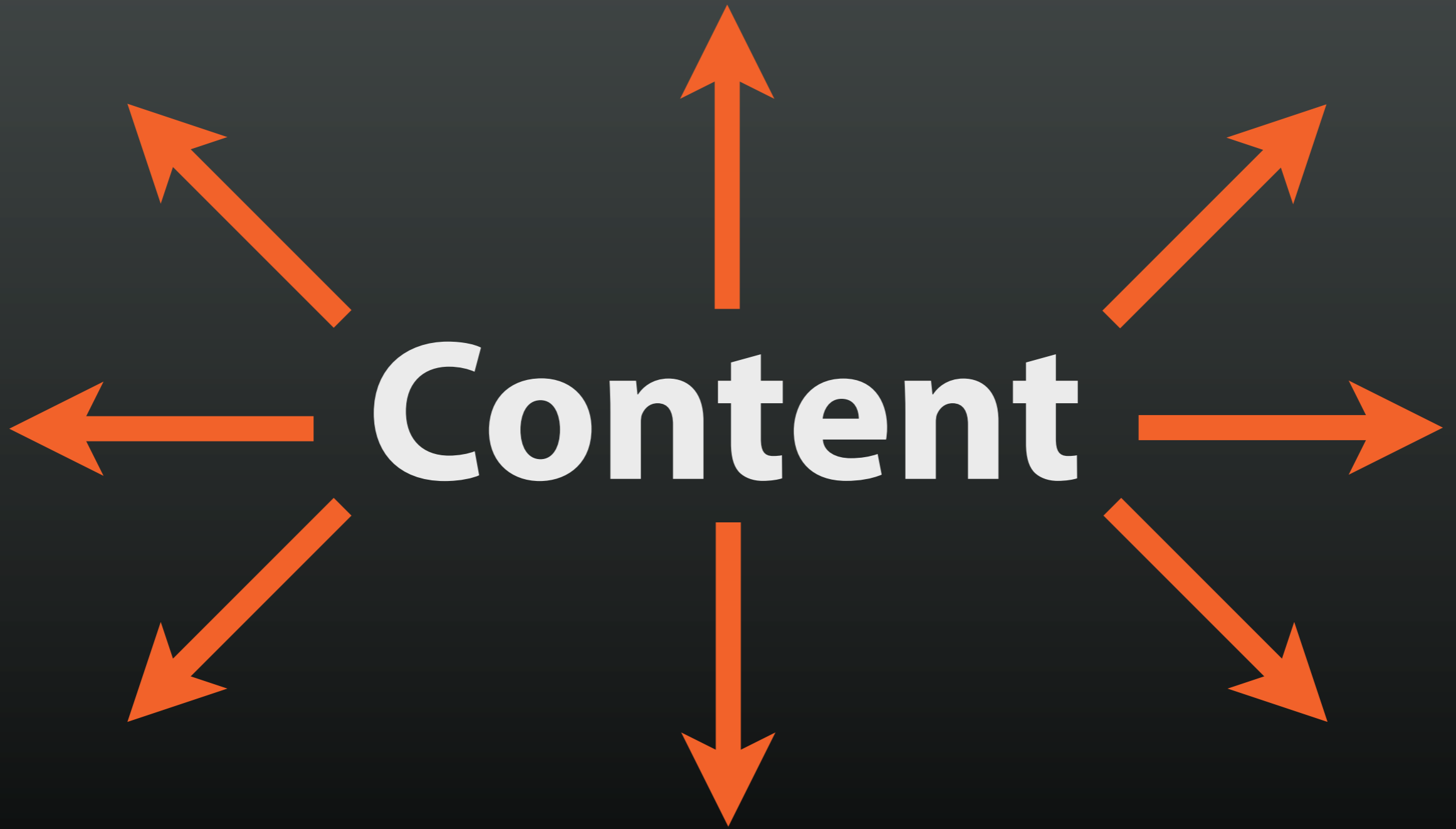


Graceful Degradation

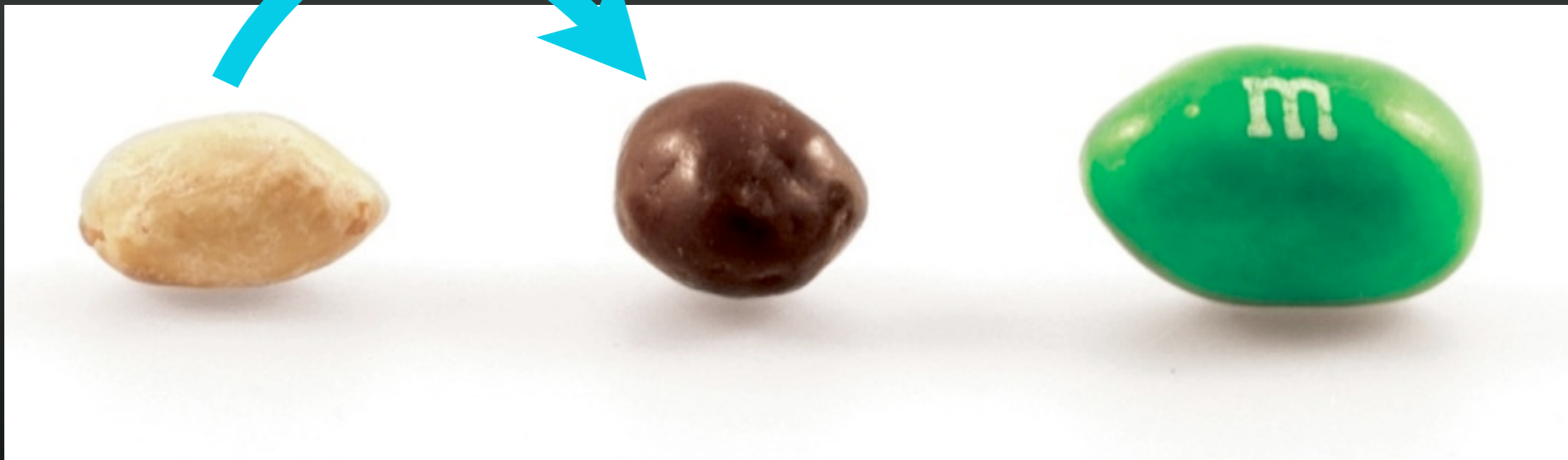
**Progressive
Enhancement**

Content

Content









YOU MUST BE THIS TALL
TO RIDE WITH AN ADULT





Graceful Degradation

**Progressive
Enhancement**

on

**Responsive
Web Design**

**Progressive
Enhancement**

**Mobile
First**

Complex interfaces

Implementing Responsive Design

06 Aug 2012 In case you hadn't heard, Tim Kadlec fantastic book *Implementing Responsive Design* came out today from New Riders. It's a fantastic and necessary read for any practicing web professional out there and I was honored Tim asked me to write the foreword.

Complex interfaces

Implementing Responsive Design



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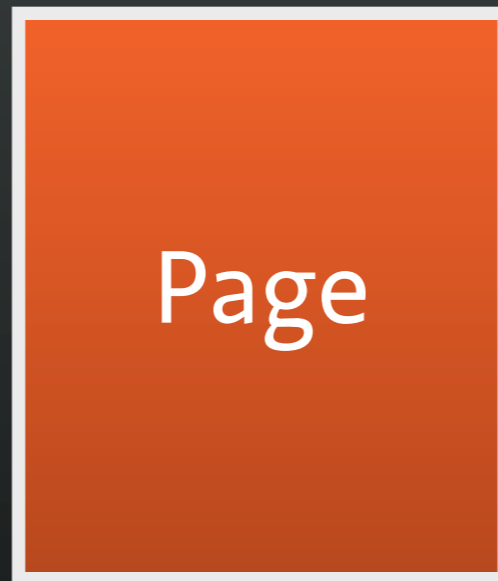
There is no image...

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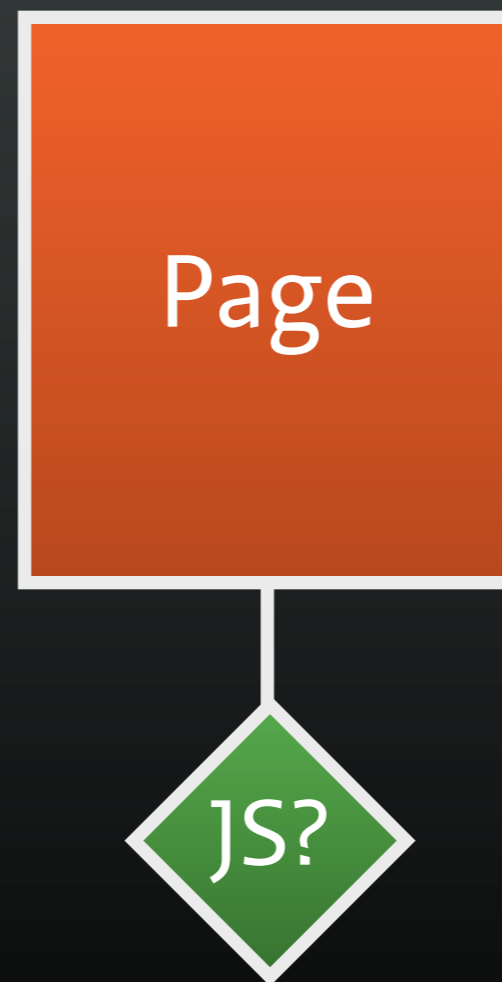
Until there is

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  data-has-image="true">  
    
</p>
```

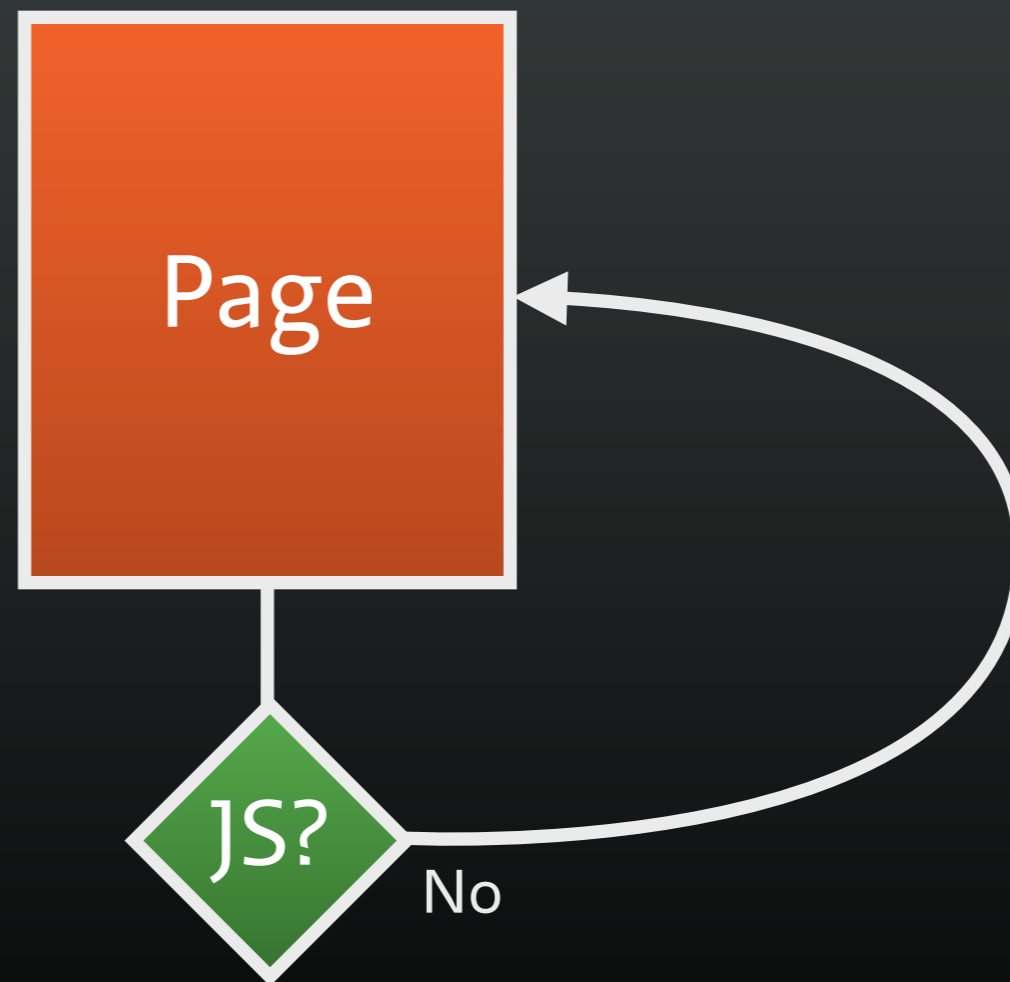
Adaptive widget logic



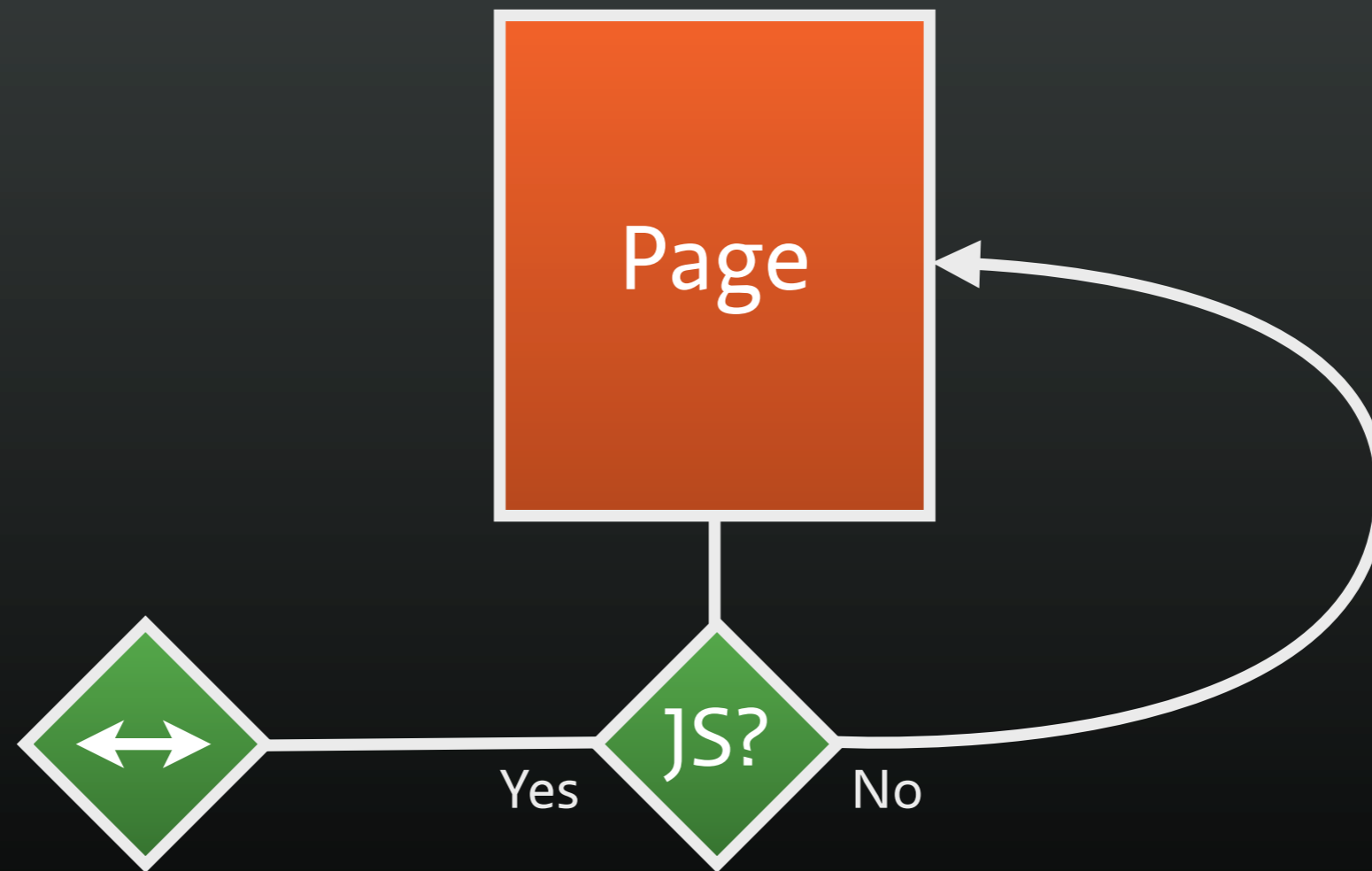
Adaptive widget logic



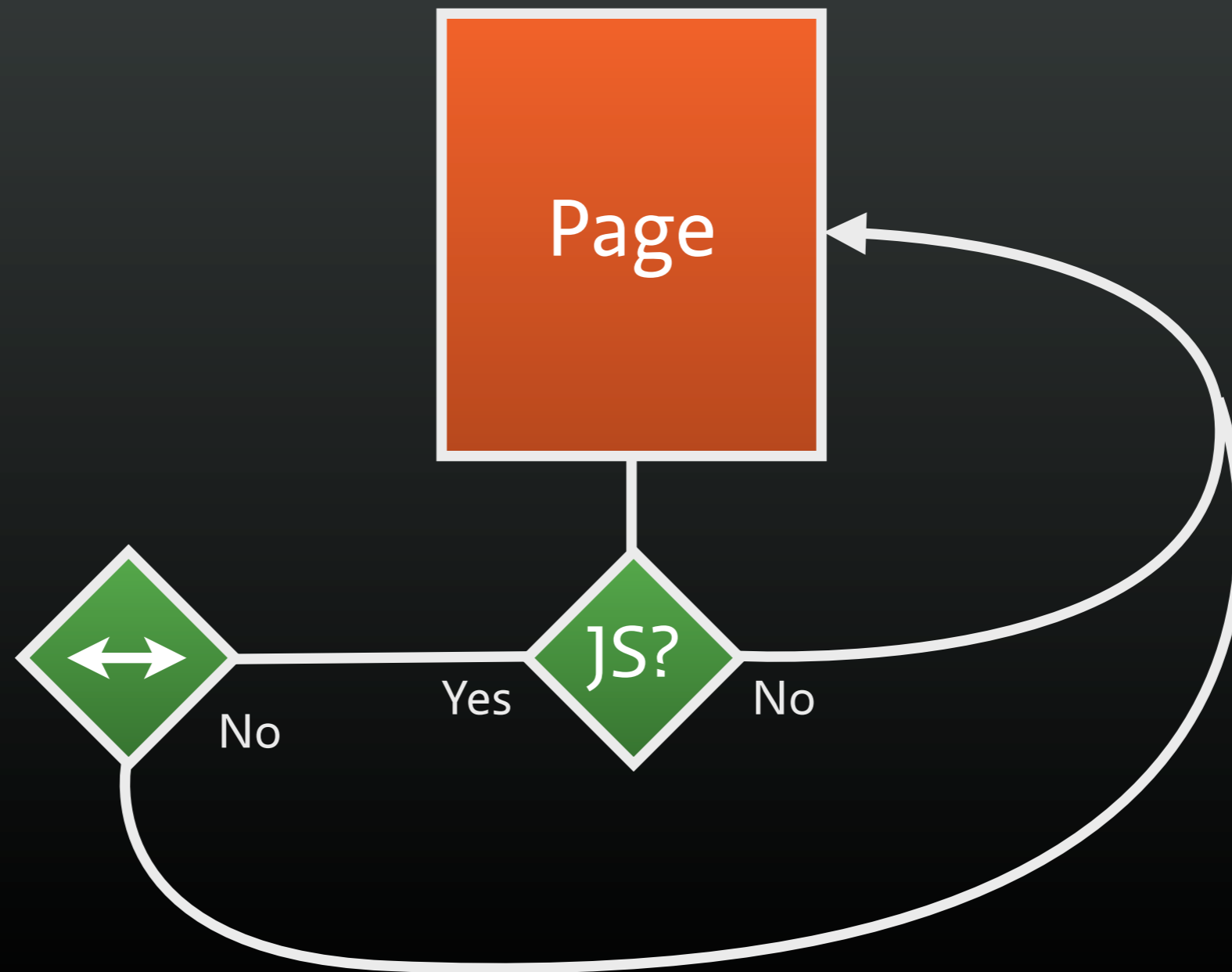
Adaptive widget logic



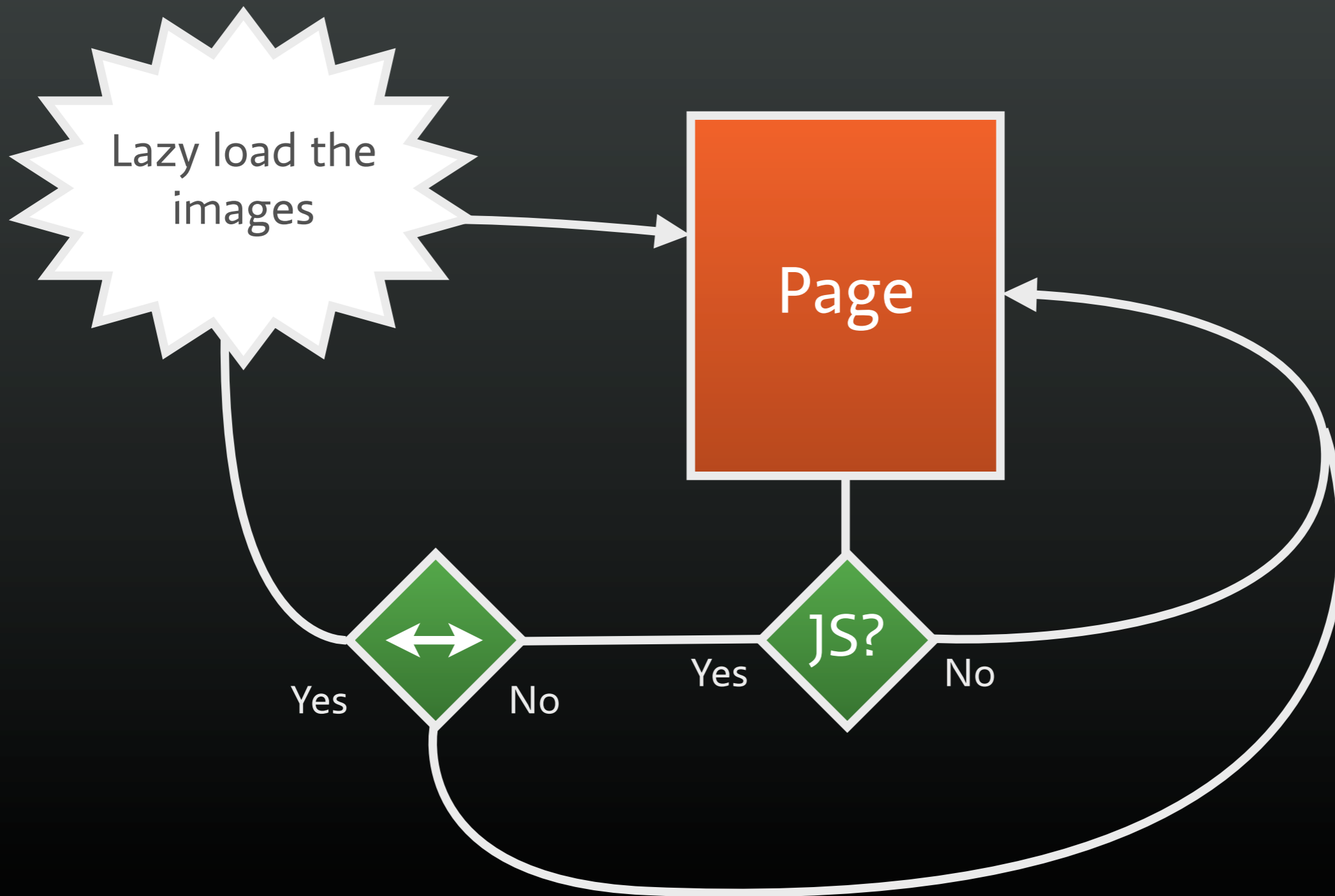
Adaptive widget logic



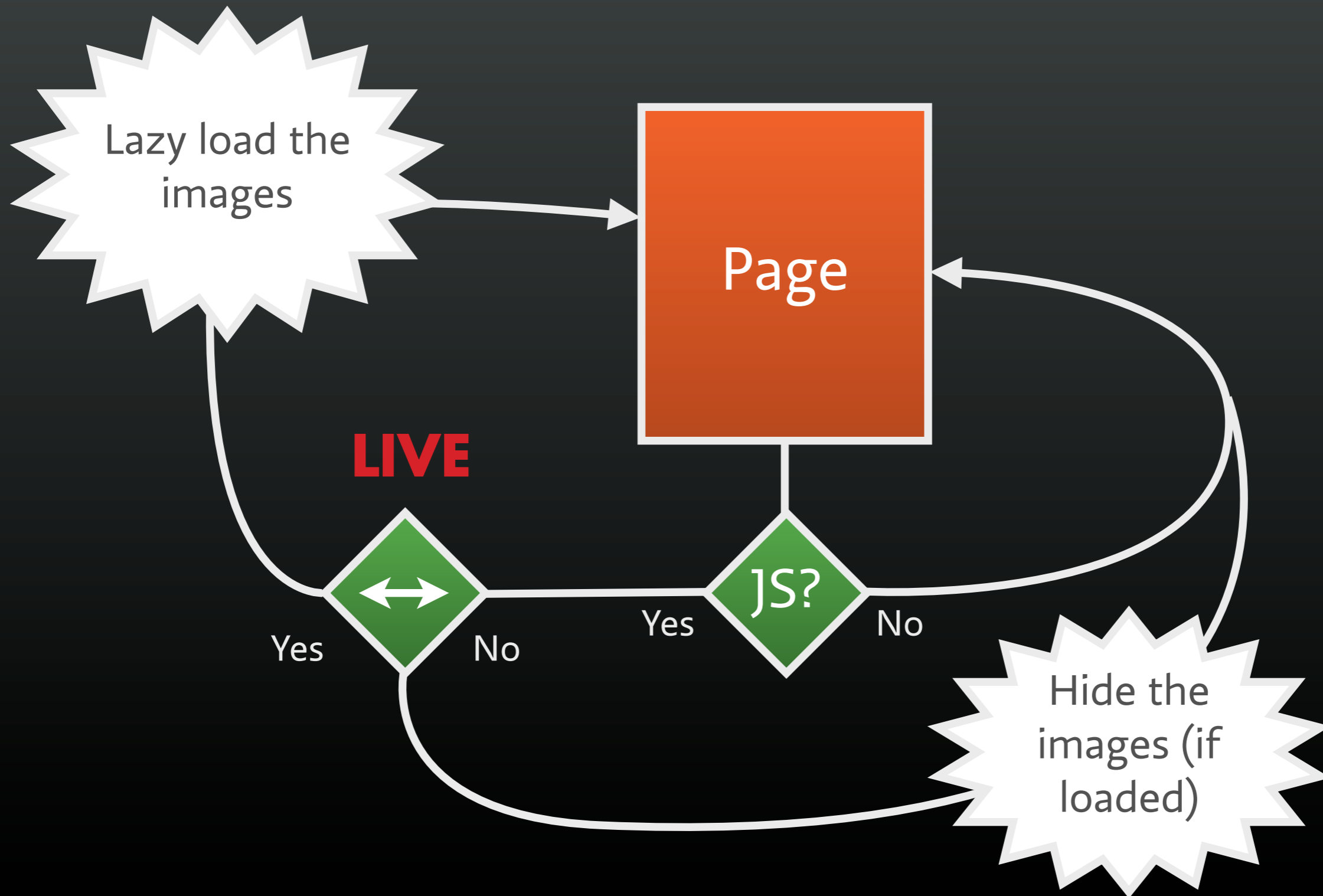
Adaptive widget logic



Adaptive widget logic



Adaptive widget logic



Complex interfaces



CLICK TO ENLARGE

Retreats 4 Geeks

We built this site for our intimate retreat series.

Our curriculum is created for today's practitioner, integrating instruction in web standards with new technologies and emerging trends in both design and development.

Our facilitators are giants in the field, with years of hands-on experience in the trenches and the classroom.

Our approach to teaching is dynamic, like the web, and at the heart of it all is our love for sharing best practices.

Complex interfaces



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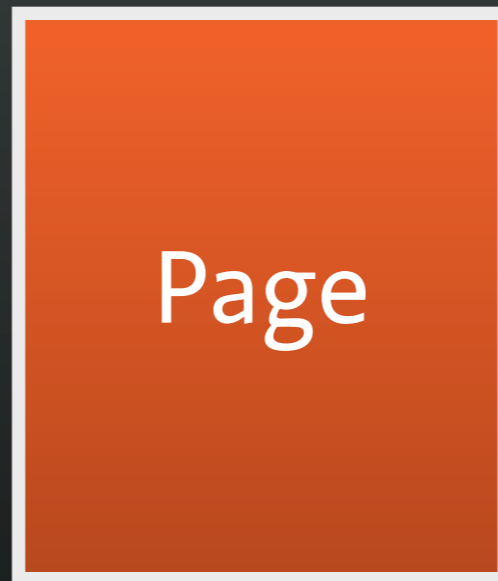
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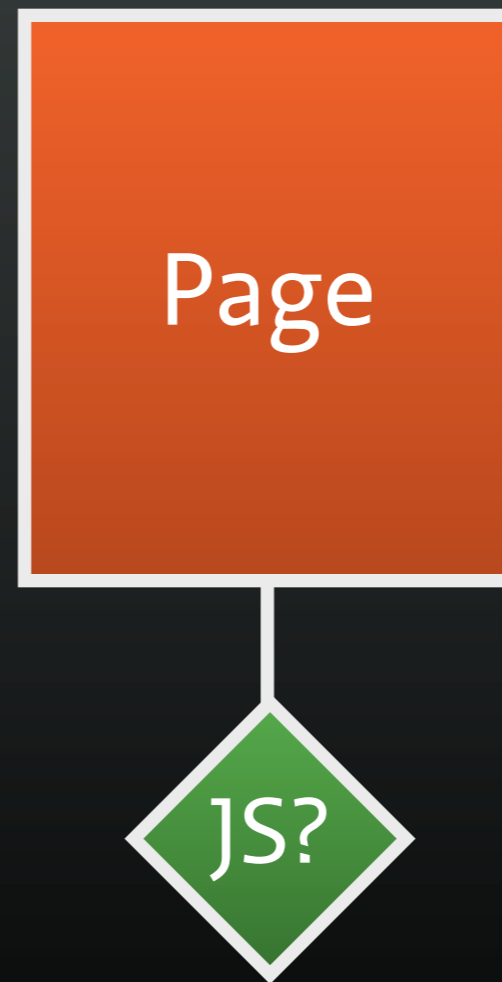
No need to link

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  <figcaption>
    <h6>Retreats 4 Geeks</h6>
    <p>We built this site for our intimate retreat series.</p>
  </figcaption>
</figure>
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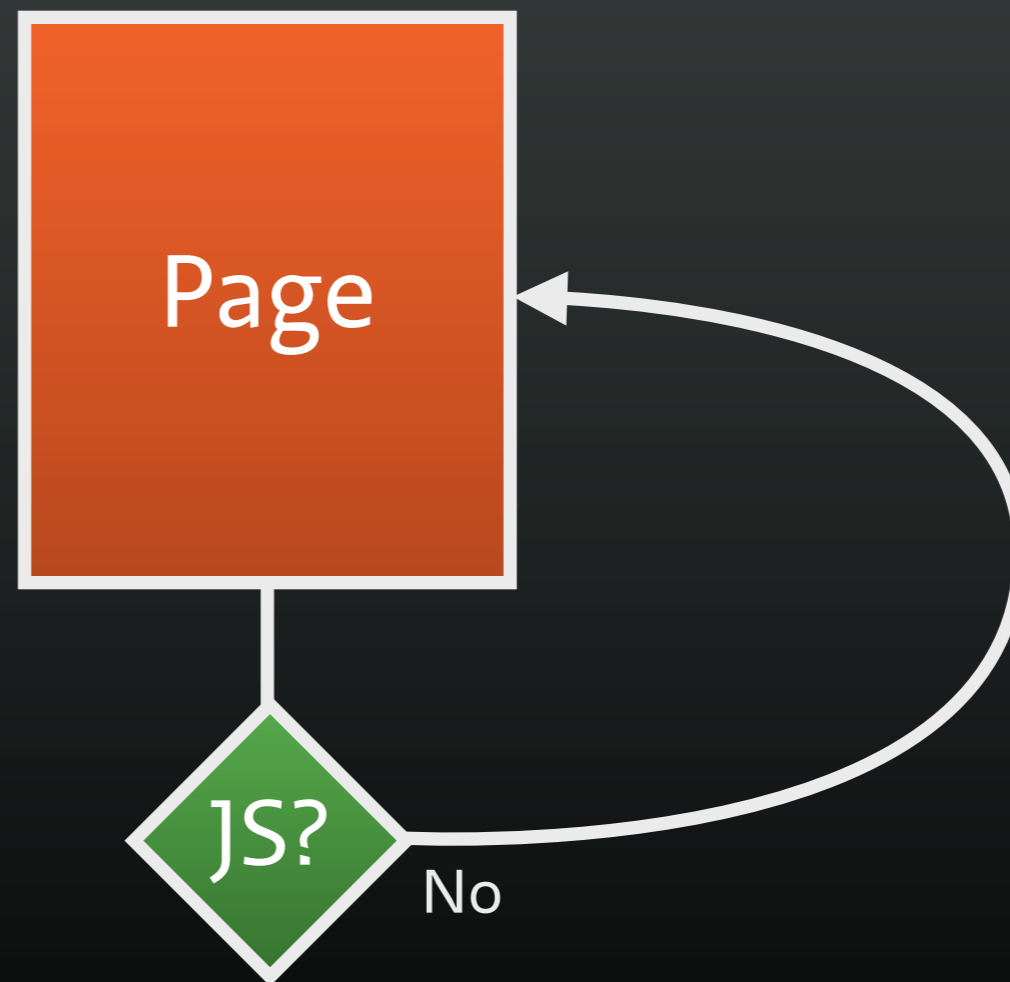
Adaptive widget logic



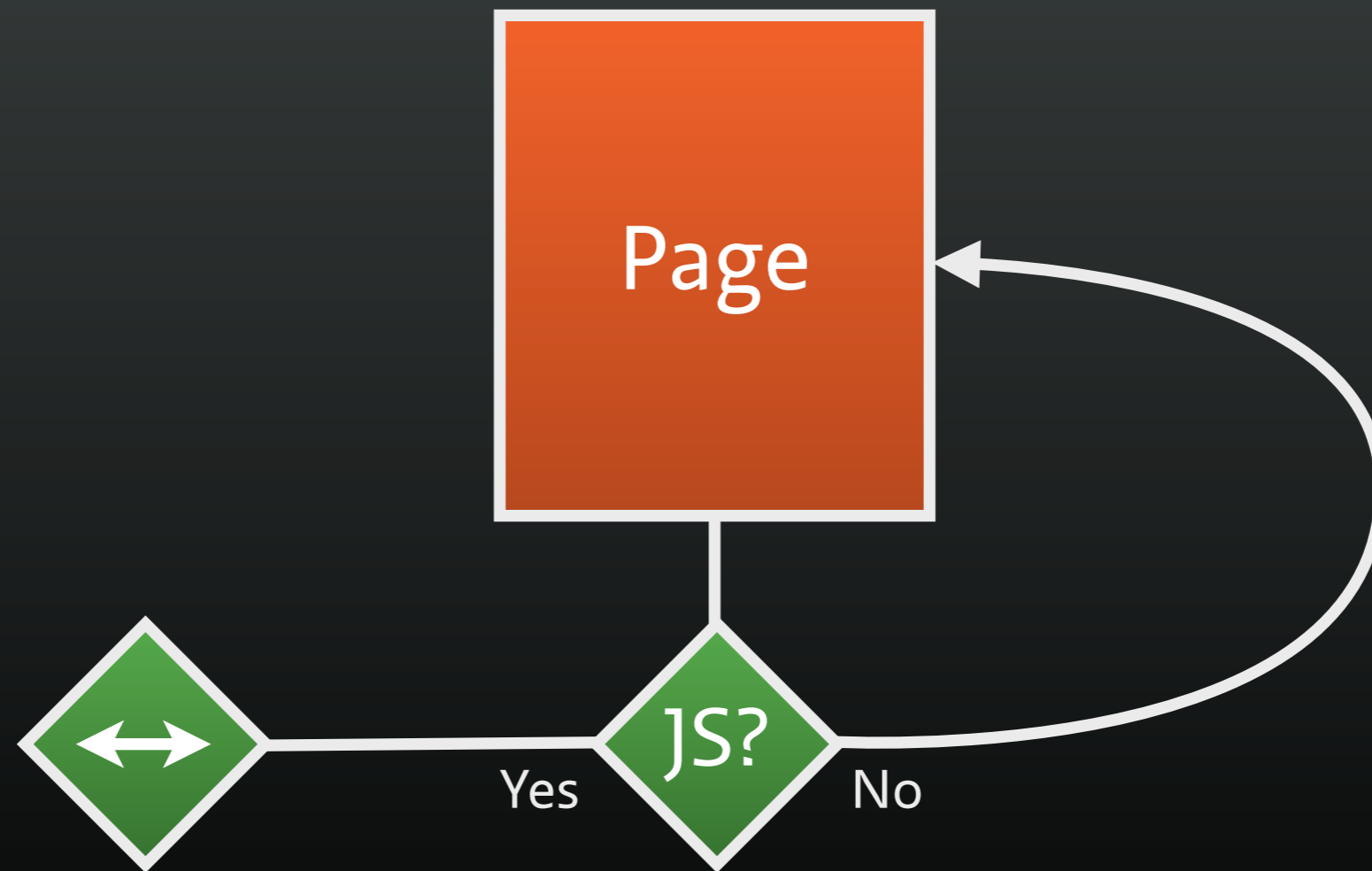
Adaptive widget logic



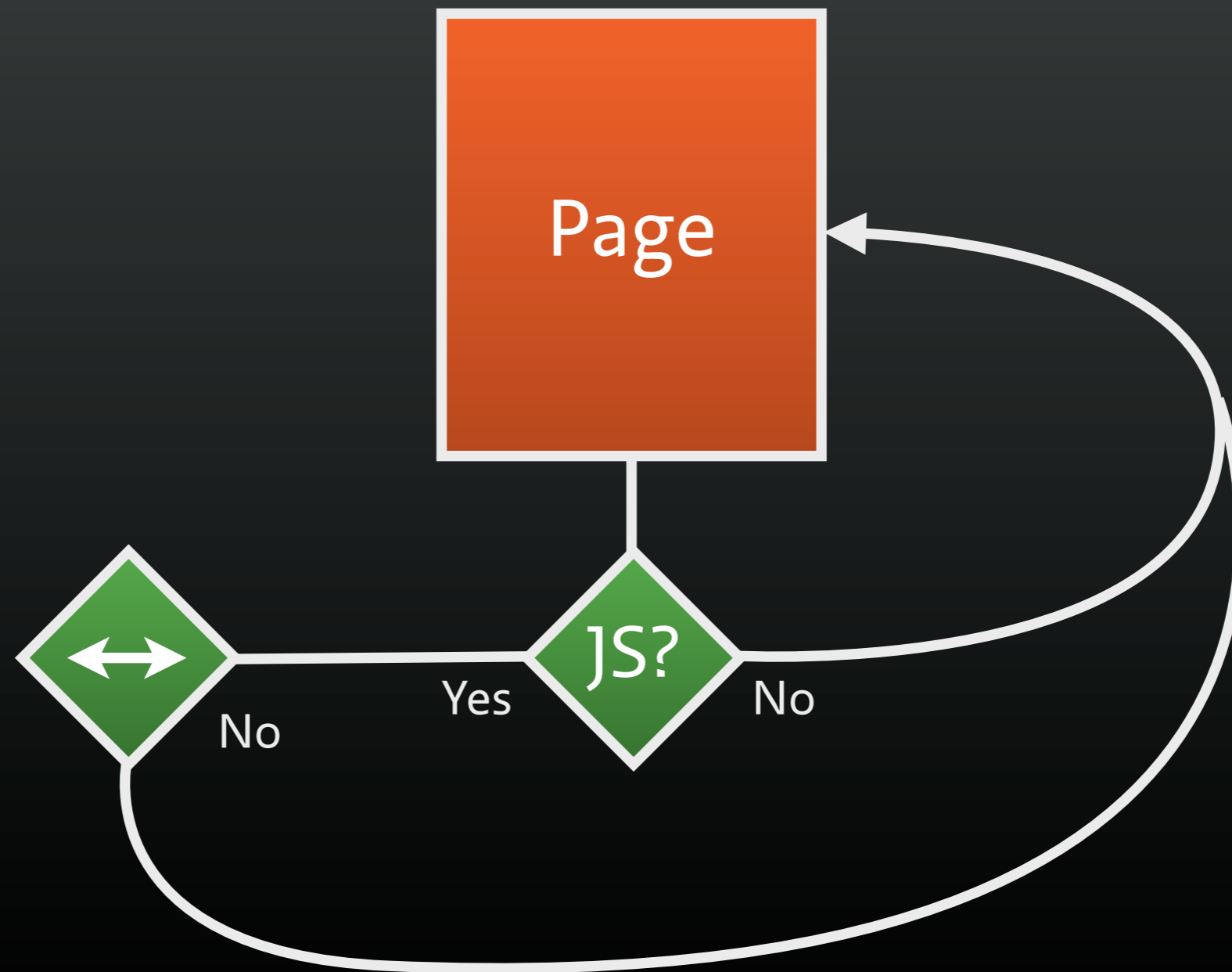
Adaptive widget logic



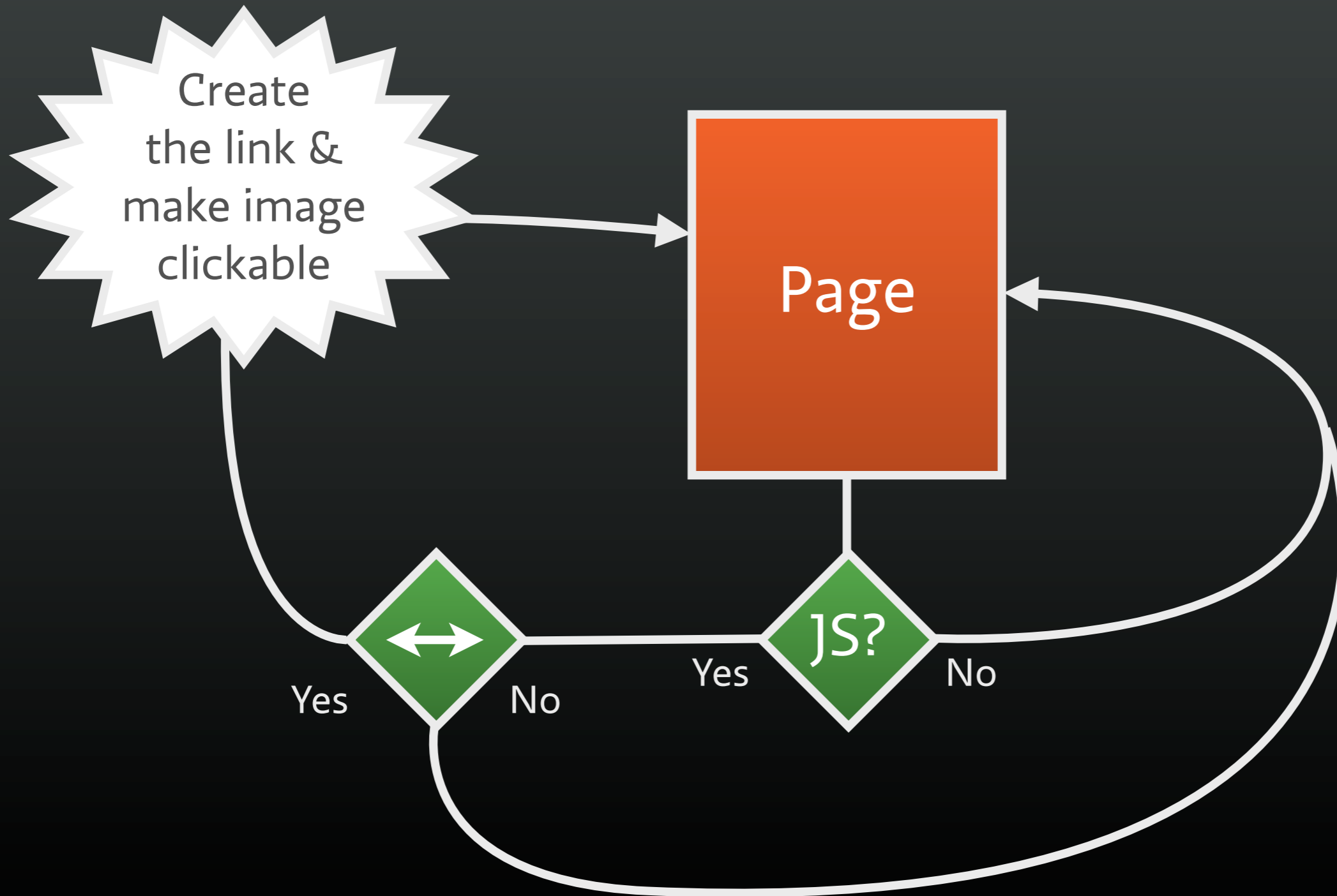
Adaptive widget logic



Adaptive widget logic



Adaptive widget logic



Complex interfaces



CLICK TO ENLARGE

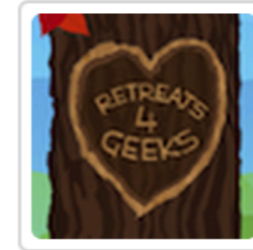
Retreats 4 Geeks

We built this site for our intimate retreat series.

Our curriculum integrates instruction in web standards with new technologies and emerging trends in both design and development.

Our facilitators are giants in the field, with years of hands-on experience in the trenches and the classroom.

Our approach to teaching is dynamic, like the web, and at the heart of it all is our love for sharing best practices.



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Make the connection

```
<figure id="fig-1">
  
  <p class="enlarge"><a href="#enlarge">Click to Enlarge</a></p>
  <figcaption>
    <h6>Retreats 4 Geeks</h6>
    <p>We built this site for our intimate retreat series.</p>
  </figcaption>
</figure>
```

Complex interfaces



CLICK TO ENLARGE

Retreats 4 Geeks

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Complex interfaces

Pumpkin Pie

[OVERVIEW](#)[INGREDIENTS](#)[DIRECTIONS](#)[NUTRITION](#)

Whether you're hosting a festive party or a casual get-together with friends, our Pumpkin Pie will make entertaining easy!

Original recipe yield: 1 × 9-inch deep dish pie

Prep Time: 10min

Cook Time: 1hr

Ready In: 1hr 10min



Traditional approach

```
<h1>Pumpkin Pie</h1>
<div class="container">
  <div class="section">
    <h2>Overview</h2>
    
    <p>Whether you're hosting a festive party or a casual
    get-together with friends, our Pumpkin Pie will make
    entertaining easy!</p>
    <!-- ... -->
  </div>
  <!-- ... -->
  <ul class="tabs">
    <li><a href="#">Overview</a></li>
    <li><a href="#">Ingredients</a></li>
    <li><a href="#">Directions</a></li>
    <li><a href="#">Nutrition</a></li>
  </ul>
</div>
```

Cleaner approach

```
<h1>Pumpkin Pie</h1>
<div class="tabbed-interface">
  <h2>Overview</h2>
  
  <p>Whether you're hosting a festive party or a casual
  get-together with friends, our Pumpkin Pie will make
  entertaining easy!</p>
  <!-- ... -->
  <h2>Ingredients</h2>
  <ul>
    <li>1 (9<abbr title="inch">in</abbr>) unbaked deep
    dish pie crust</li>
    <li>½ cup white sugar</li>
    <!-- ... -->
  </ul>
  <h2>Directions</h2>
  <!-- ... -->
</div>
```

Cleaner approach

```
<h1>Pumpkin Pie</h1>
<div class="tabbed-interface">
  <h2>Overview</h2>
  
  <p>Whether you're hosting a festive party or a casual
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  entertaining easy!</p>
  <!-- ... -->
  <h2>Ingredients</h2>
  <ul>
    <li>1 (9<abbr title="inch">in</abbr>) unbaked deep
    dish pie crust</li>
    <li>½ cup white sugar</li>
    <!-- ... -->
  </ul>
  <h2>Directions</h2>
  <!-- ... -->
</div>
```

No JS, basic CSS

Pumpkin Pie

OVERVIEW

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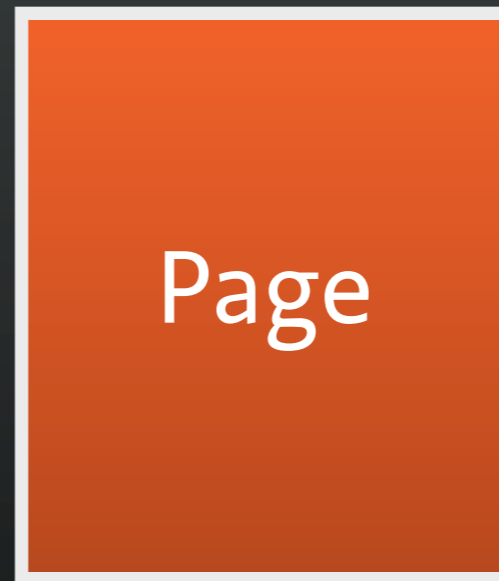
INGREDIENTS

- 1 (9in) unbaked deep dish pie crust
- ½ cup white sugar
- 1 tsp ground cinnamon
- ½ tsp salt
- ½ tsp ground ginger
- ¼ tsp ground cloves
- 2 eggs
- 1 can (15oz) pumpkin puree
- 1 can (12fl oz) evaporated milk

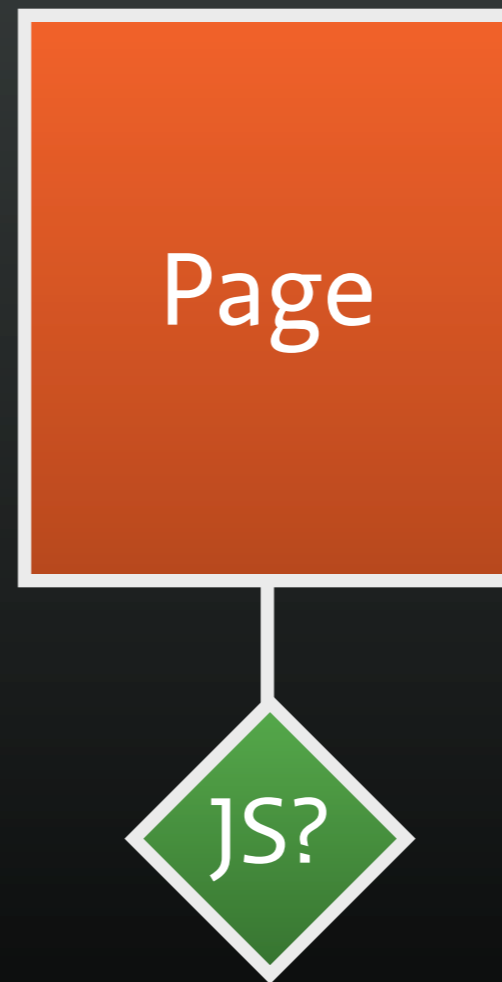
DIRECTIONS

1. Preheat oven to 425°F
2. Combine sugar, salt, cinnamon, ginger and cloves in small bowl.
3. Beat eggs lightly in large bowl.
4. Stir in pumpkin and sugar-spice mixture.

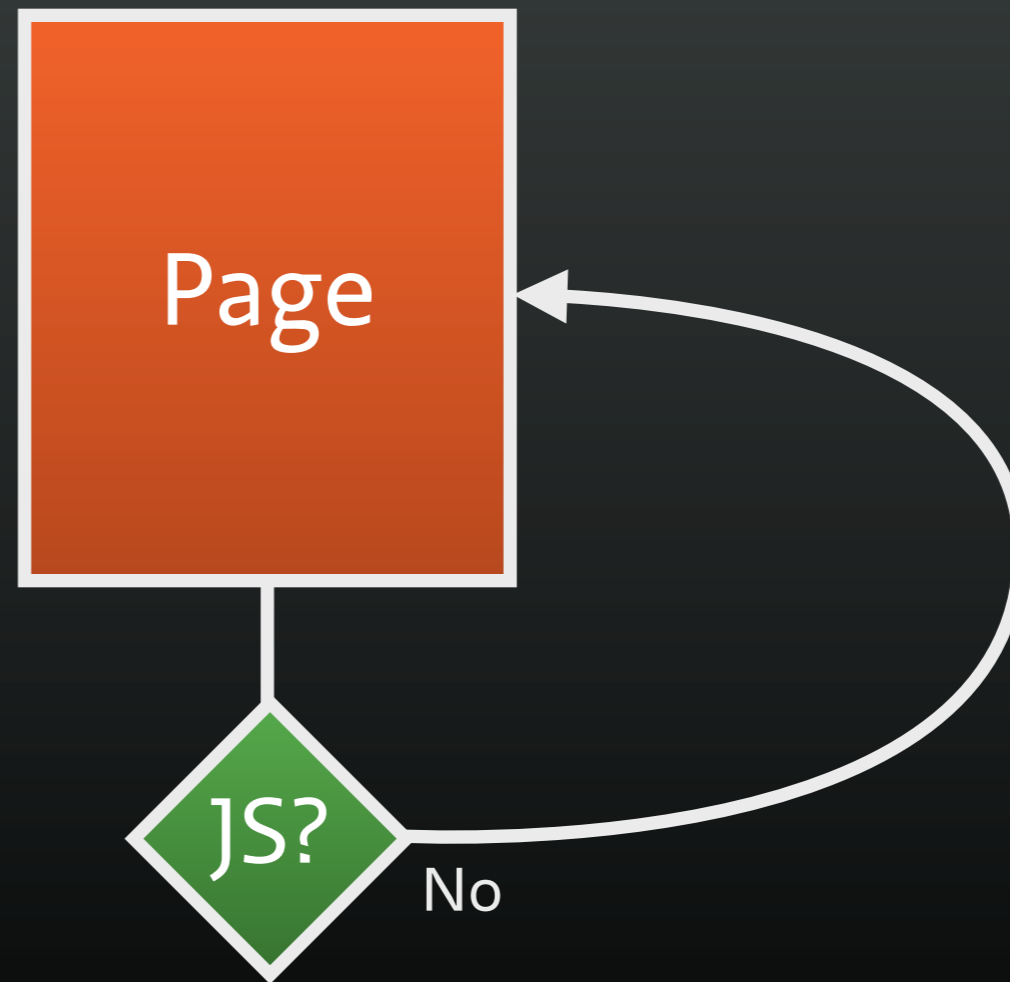
Widget logic



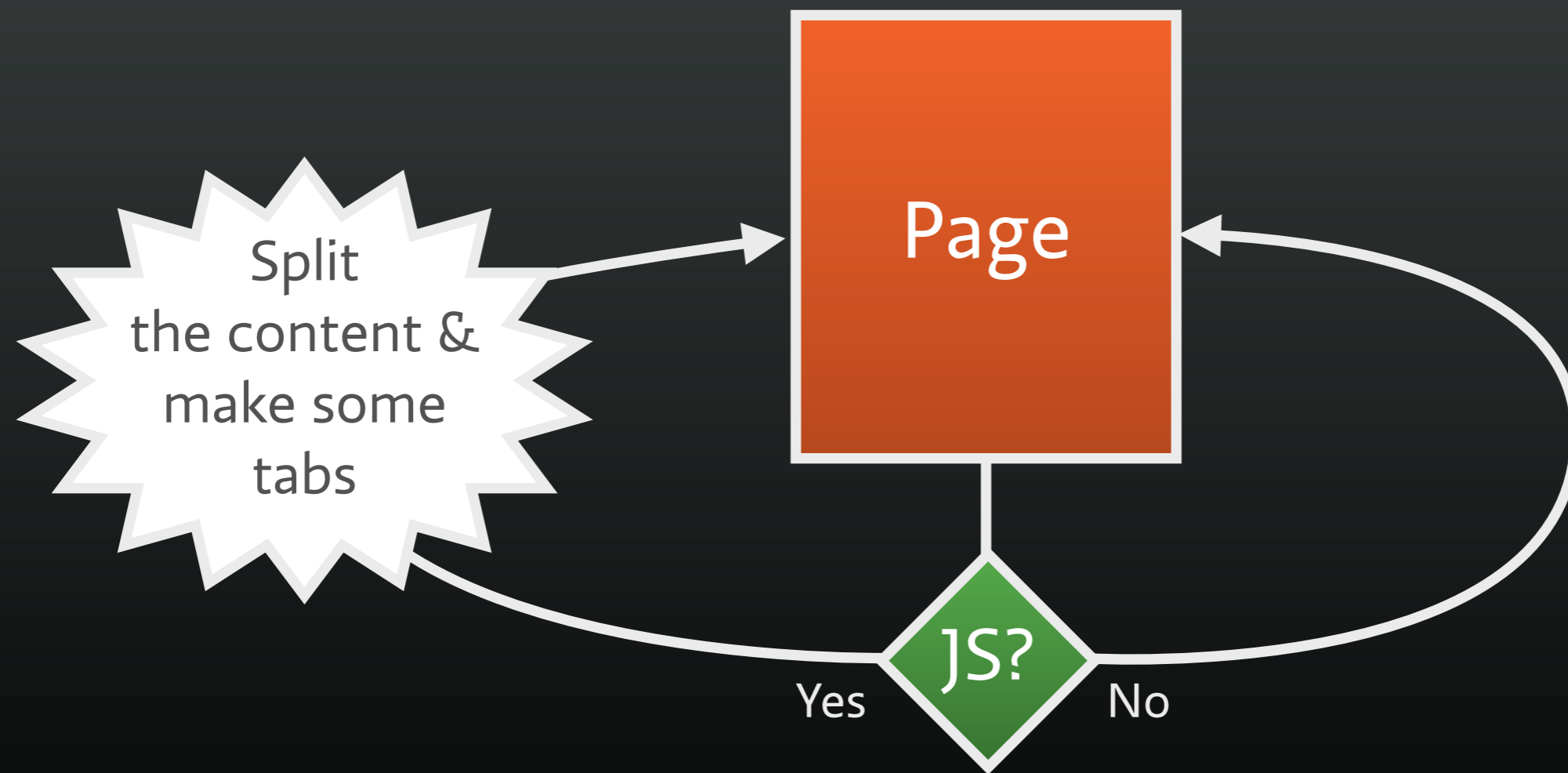
Widget logic



Widget logic



Widget logic



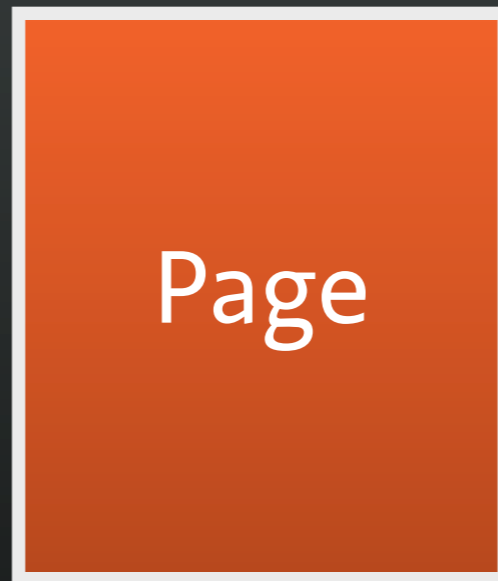
On DOM ready

```
<h1>Pumpkin Pie</h1>
<div class="tabbed-interface TabInterface-enabled">
  <section>
    <h2>Overview</h2>
    
    <p>Whether you're hosting a festive party or a casual
    get-together with friends, our Pumpkin Pie will make
    entertaining easy!</p>
    <!-- ... -->
  </section>
  <!-- ... -->
  <ul class="tabs">
    <li><a href="#">Overview</a></li>
    <li><a href="#">Ingredients</a></li>
    <li><a href="#">Directions</a></li>
    <li><a href="#">Nutrition</a></li>
  </ul>
</div>
```

Cleaner approach

```
<h1>Pumpkin Pie</h1>
<div class="tabbed-interface" data-tab-threshold="800">
  <h2>Overview</h2>
  
  <p>Whether you're hosting a festive party or a casual
  get-together with friends, our Pumpkin Pie will make
  entertaining easy!</p>
  <!-- ... -->
  <h2>Ingredients</h2>
  <ul>
    <li>1 (9<abbr title="inch">in</abbr>) unbaked deep
    dish pie crust</li>
    <li>½ cup white sugar</li>
    <!-- ... -->
  </ul>
  <h2>Directions</h2>
  <!-- ... -->
</div>
```

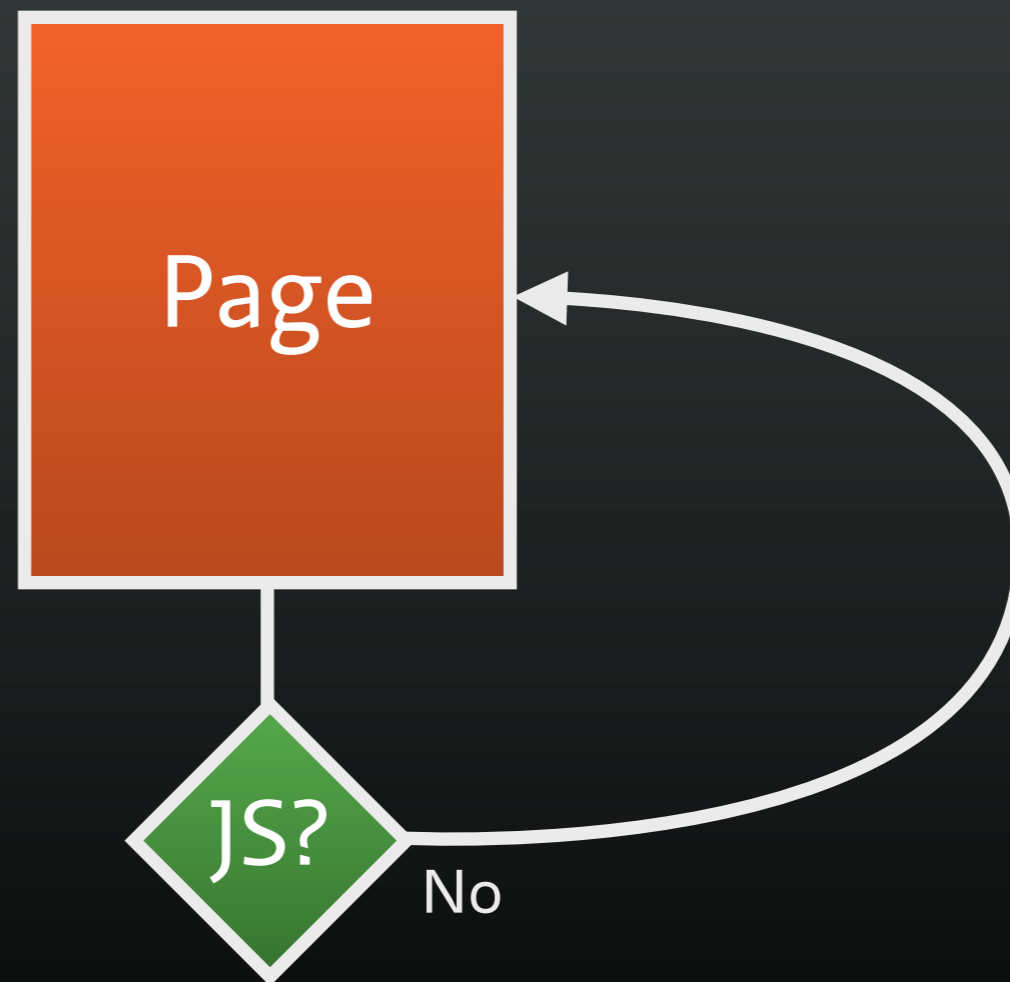
Adaptive widget logic



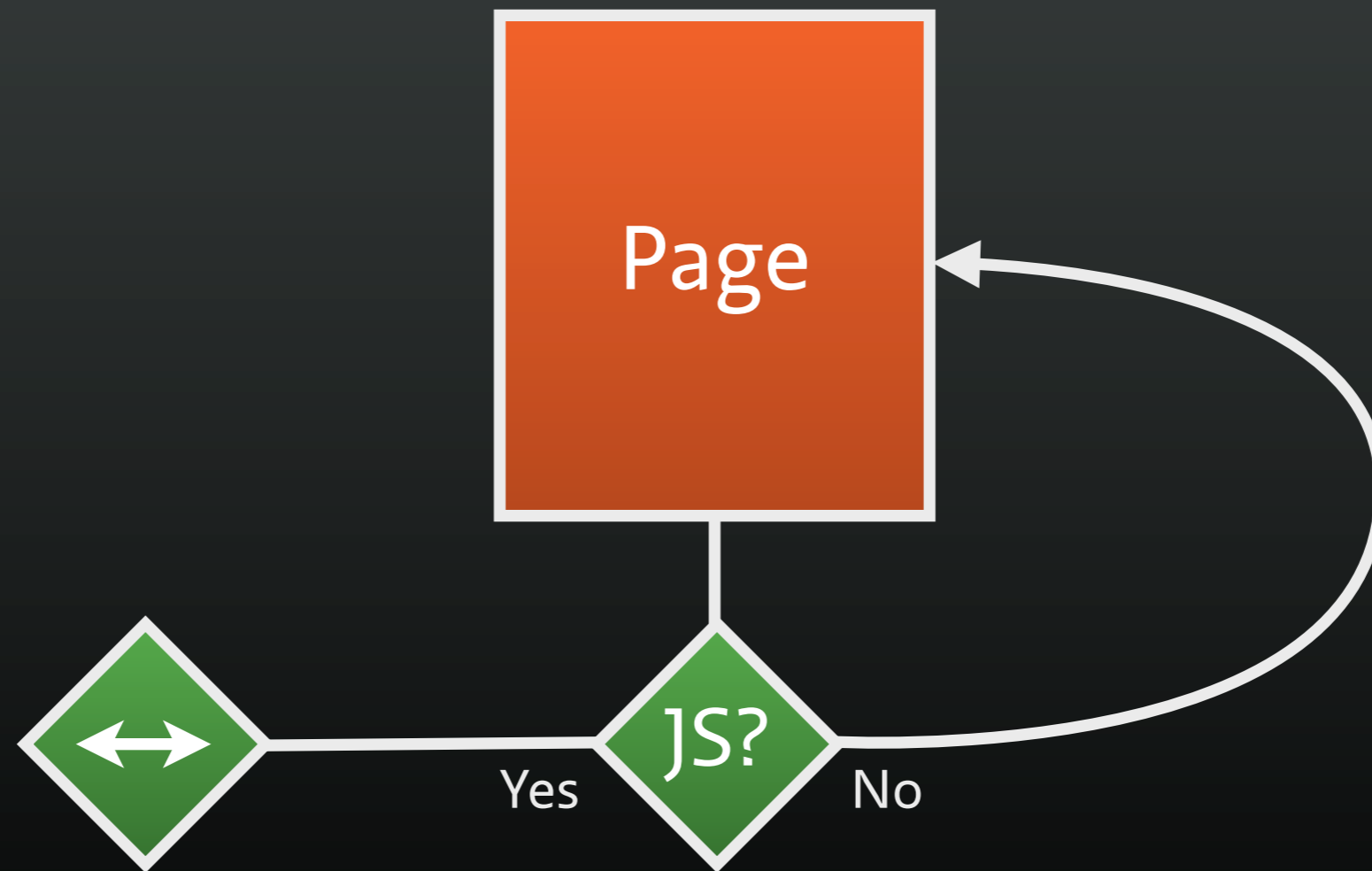
Adaptive widget logic



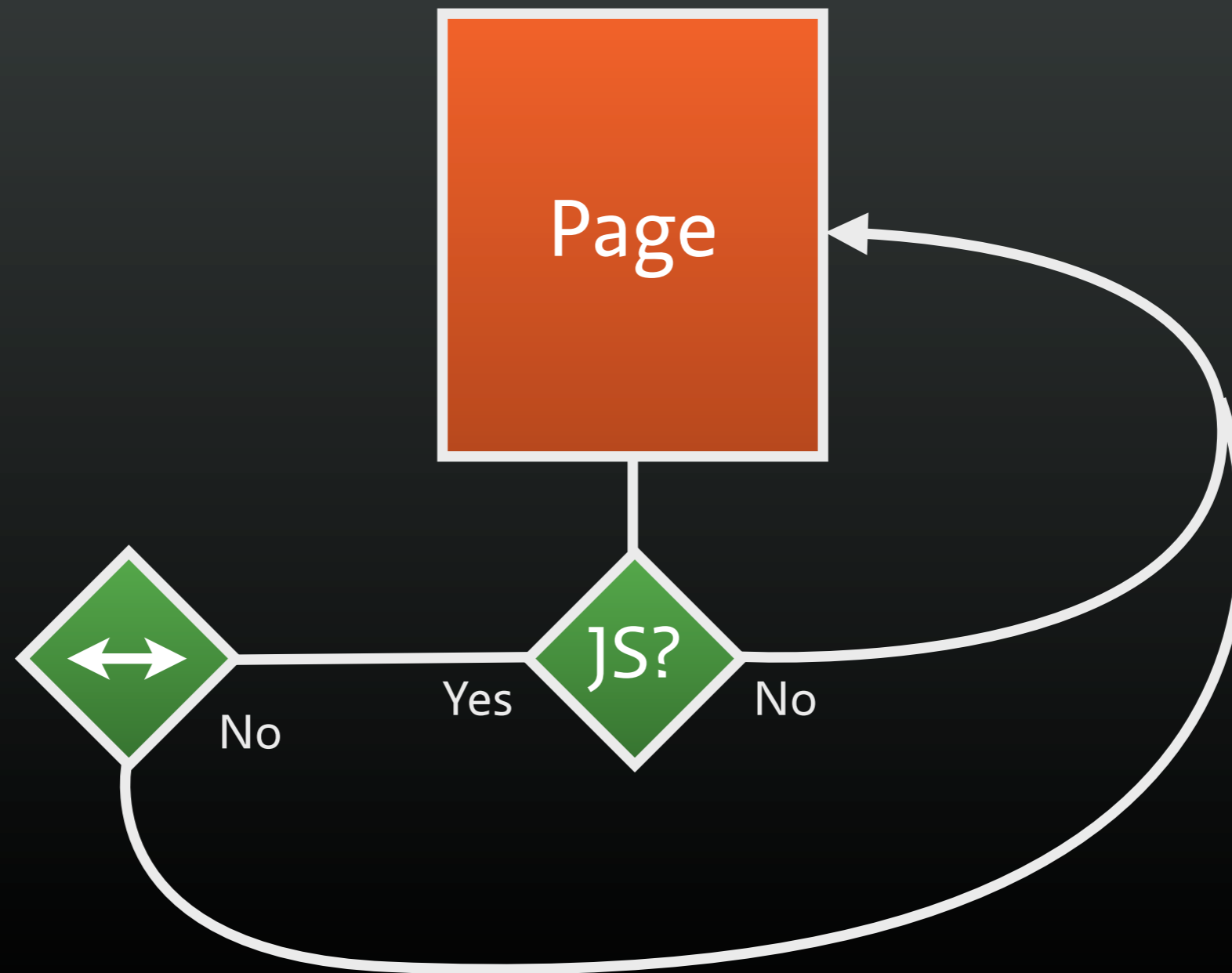
Adaptive widget logic



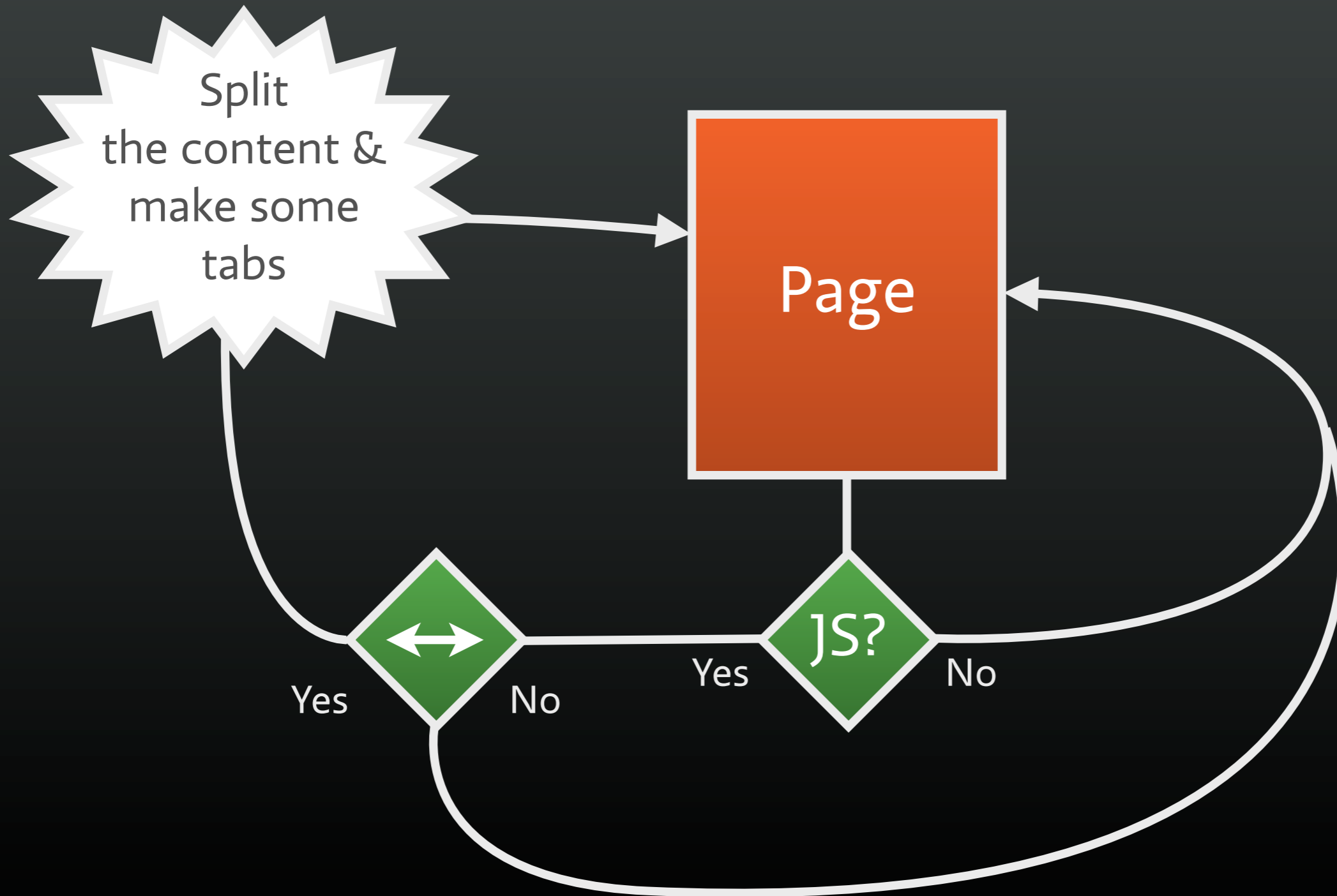
Adaptive widget logic



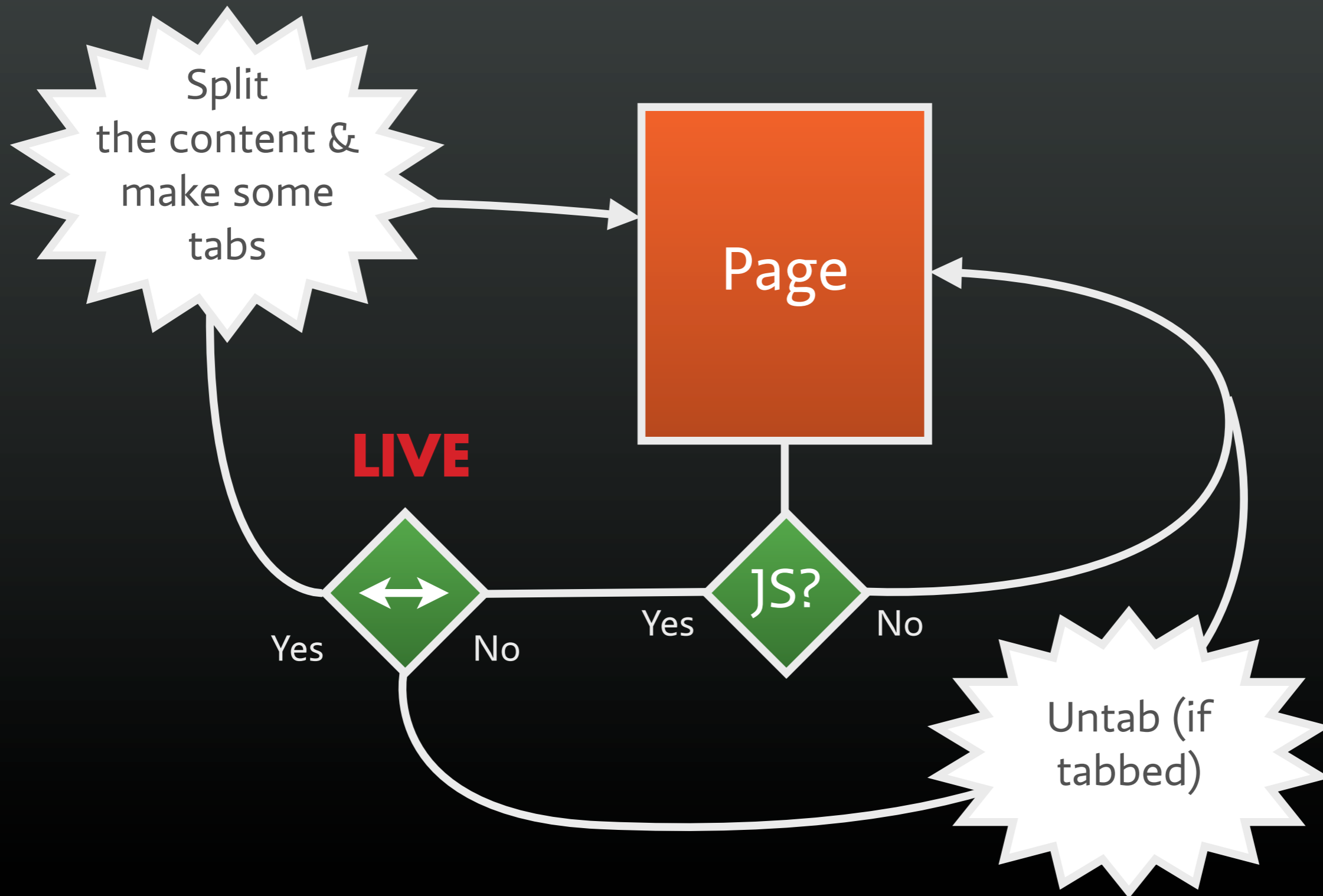
Adaptive widget logic



Adaptive widget logic



Adaptive widget logic



Adding ARIA

`role="tablist"`

Pumpkin Pie

OVERVIEW

INGREDIENTS

DIRECTIONS

NUTRITION

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Adding ARIA

Pumpkin Pie

OVERVIEW INGREDIENTS DIRECTIONS NUTRITION

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role="tab"
aria-selected="true"
aria-controls="folder-1"

Adding ARIA

`role="tab"`
`aria-selected="false"`
`aria-controls="folder-4"`

Pumpkin Pie

OVERVIEW | INGREDIENTS | DIRECTIONS | **NUTRITION**

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Adding ARIA

Pumpkin Pie

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```
role="tabpanel"  
aria-hidden="false"  
aria-labelledby="folder-1-tab"
```

Adding ARIA

Pumpkin Pie

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`role="application"`
`aria-activedescendant="folder-1"`

Result!

Pumpkin Pie

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