

PLANNING ADAPTIVE INTERFACES



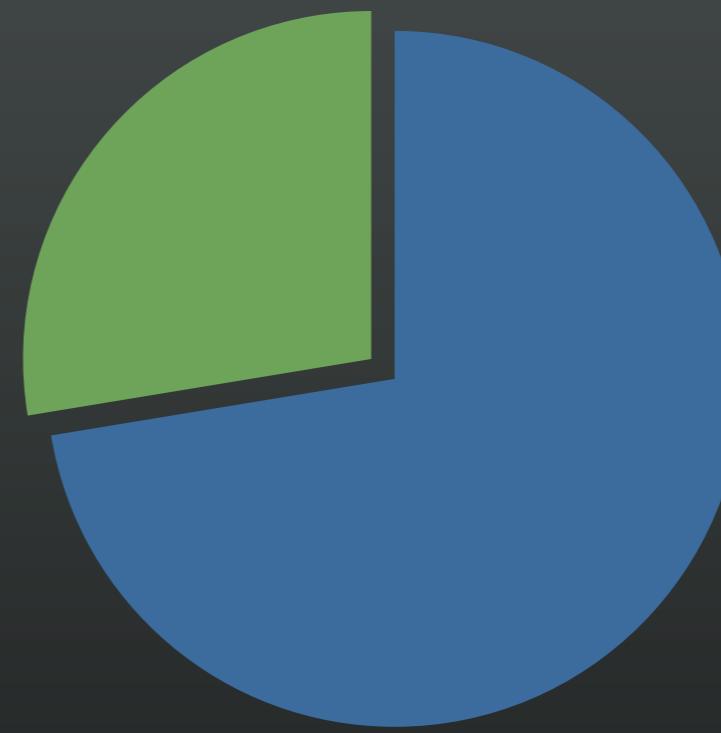
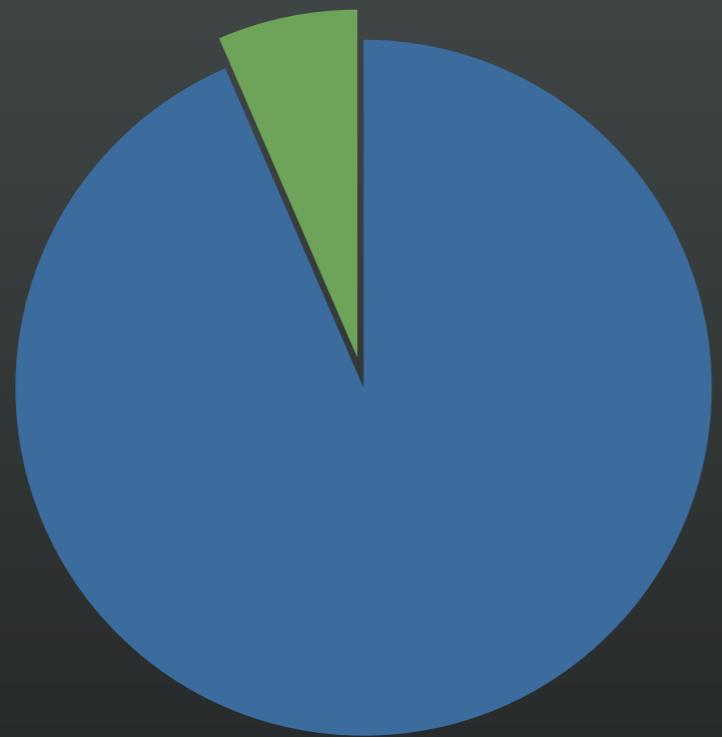
Aaron Gustafson
[@aarongustafson](https://twitter.com/aarongustafson)
slideshare.net/AaronGustafson

THIS IS NOT
THE WEB.



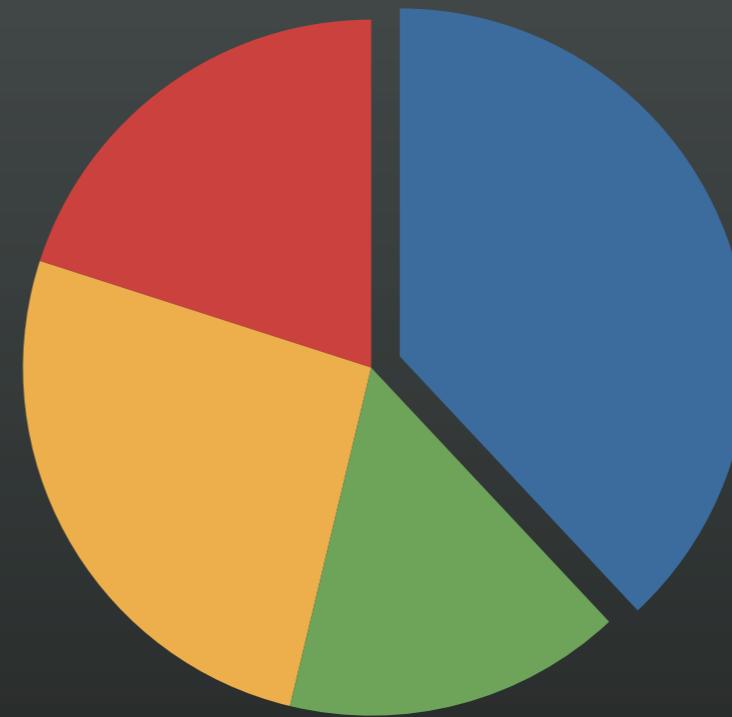
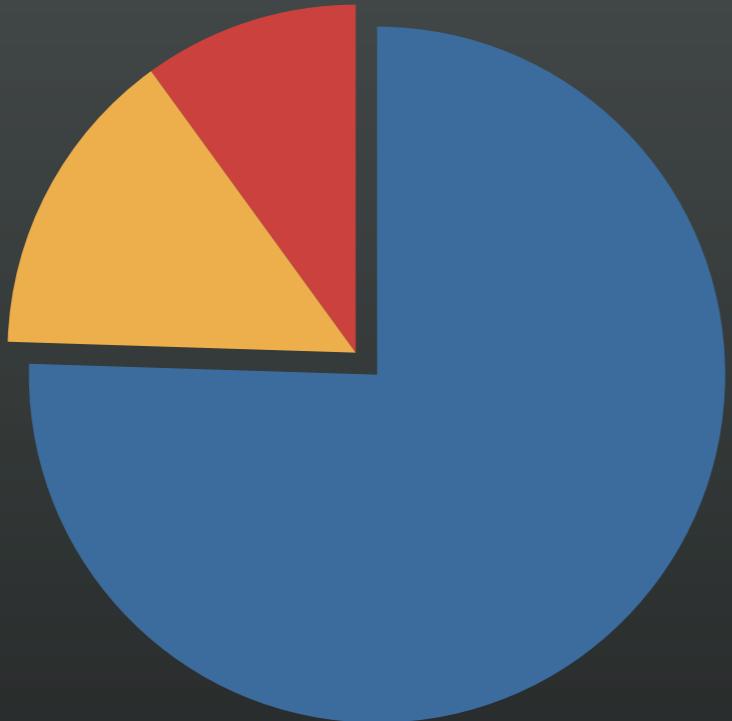
“ Just four years ago the majority of our visitors saw our website in Internet Explorer on a Windows computer on a minimum 1,024 pixel wide screen. Times have really changed.

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 *v.s.* 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	72	92	93	100	98	100	91	69	92	76	93	93	100			
Score in the Acid3 test 90 points																					

Android 1.6 scores 93 points instead of 92.

1. 100 : Yes
2. 91-99 : Almost
3. 71-90 : Alternative
4. 51-70 : Incomplete
5. 31-50 : Incorrect
6. 11-30 : Minimal
7. 0-10 : No

- 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>

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

But Android
is **NOT** unique
in this

The culprits?
SCREEN SIZE

The culprits?
EMBEDDED VIEWS

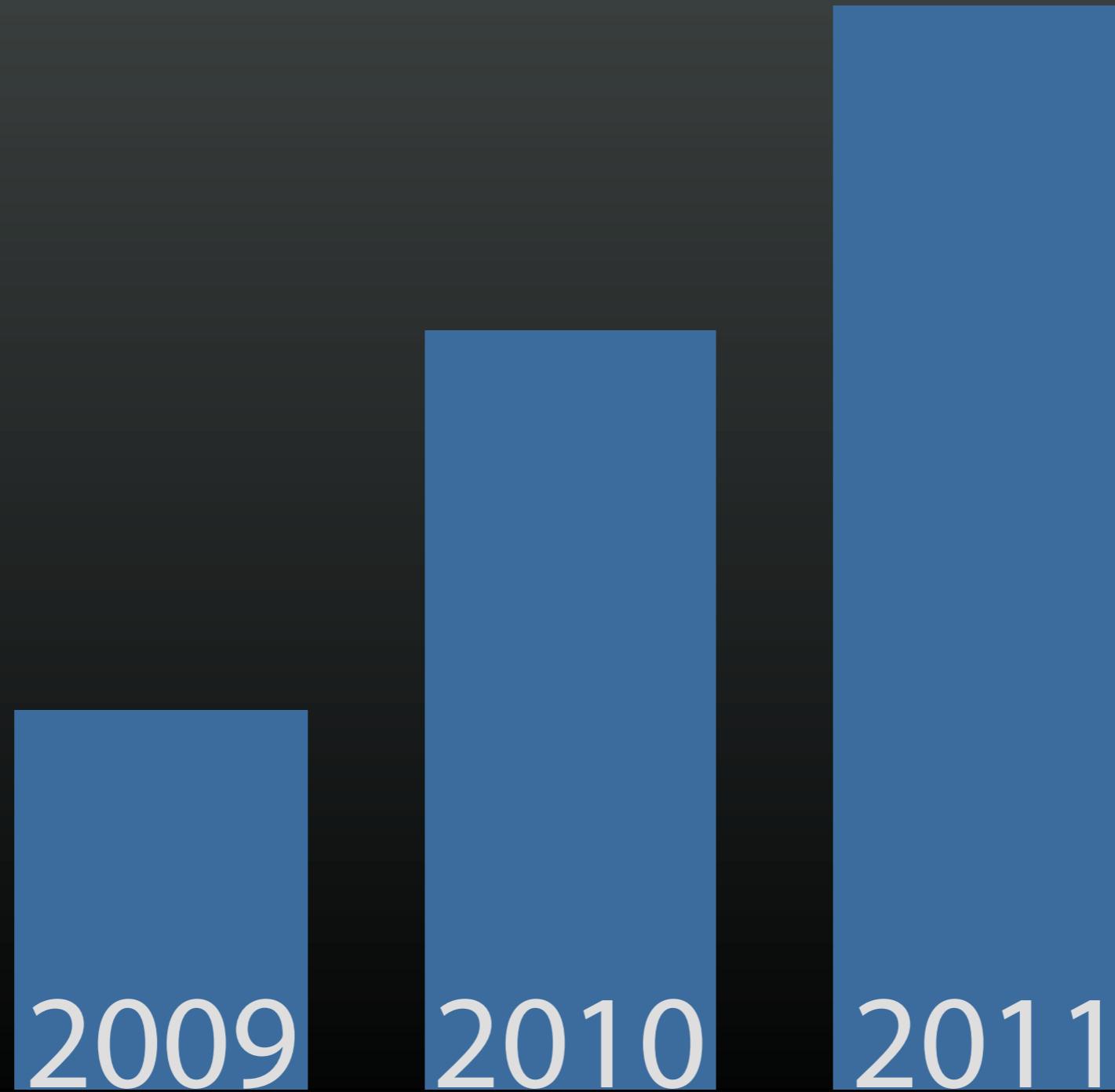
The culprits?
BROWSER CHROME

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**

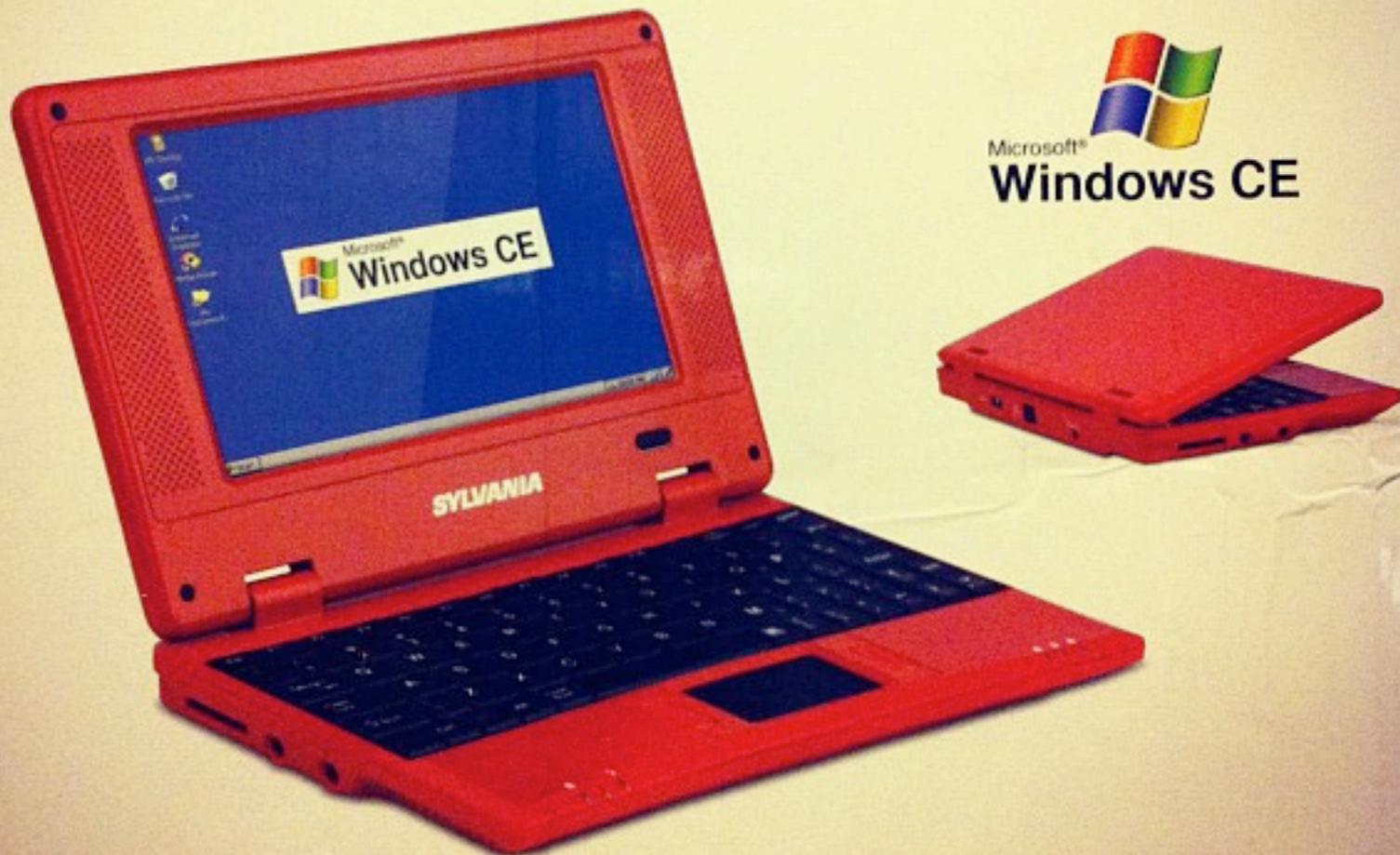
Internet in Kenya
MOBILE = 90%

The reality



SYLVANIA

WIRELESS MOBILE INTERNET DEVICE



Microsoft®
Windows CE



E-mail



Web Browsing

facebook

Social Networking

YouTube™

YouTube
Video Streaming



211
222
312
780

NO
SKATEBOARDING
LAW 5615

GUESS

780

WORLD
WIDE ELECTRONICS

Rumber Side Hollywood Ave.

Ford
College

Dell'Orto

GUESS

Dell'Orto

MARS

AMERICA



“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

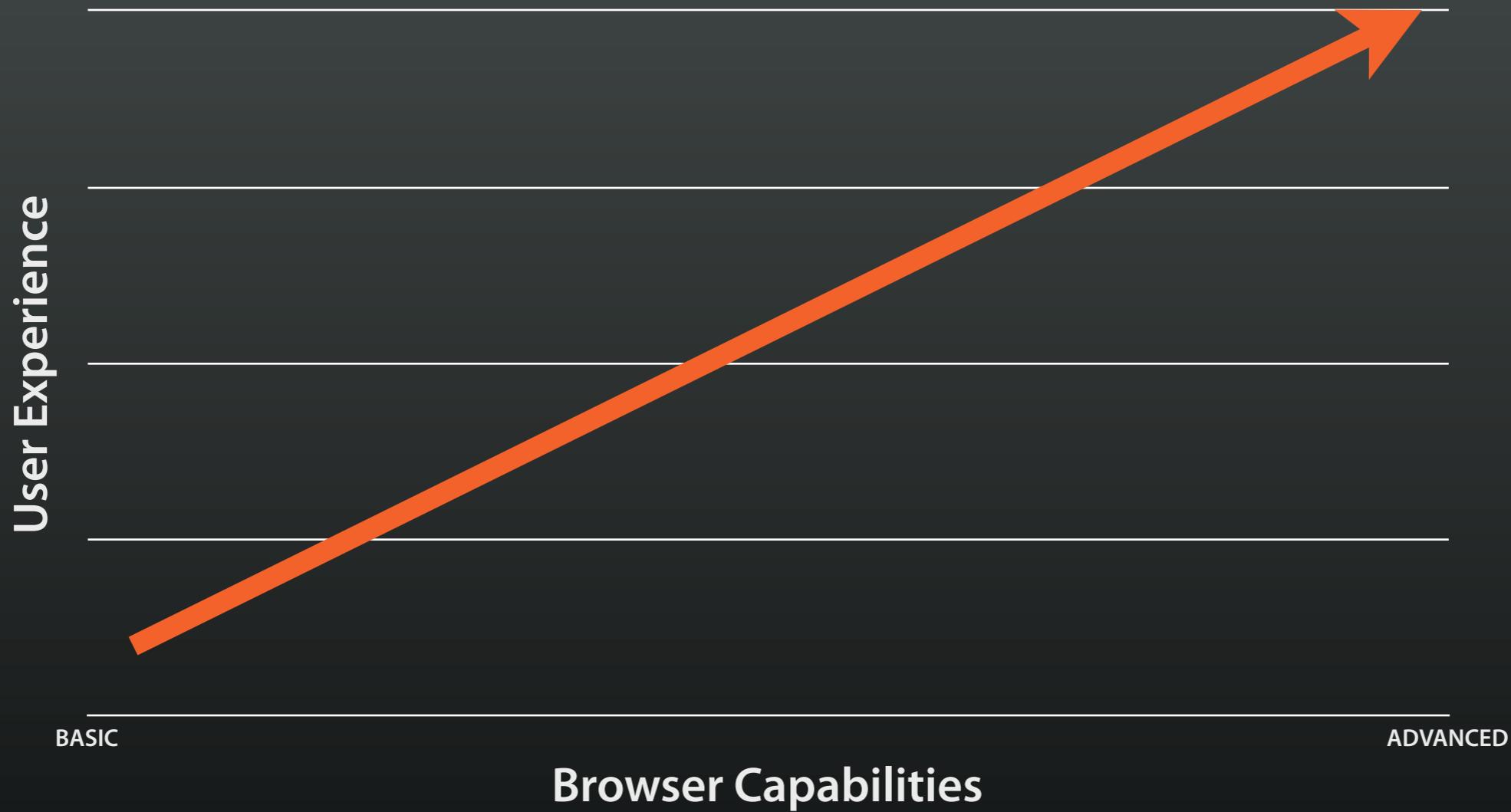
Even when
we think
we know,
WE ARE
PROBABLY
WRONG

So how
do we COPE?

Progressive Enhancement



Technological
restrictions



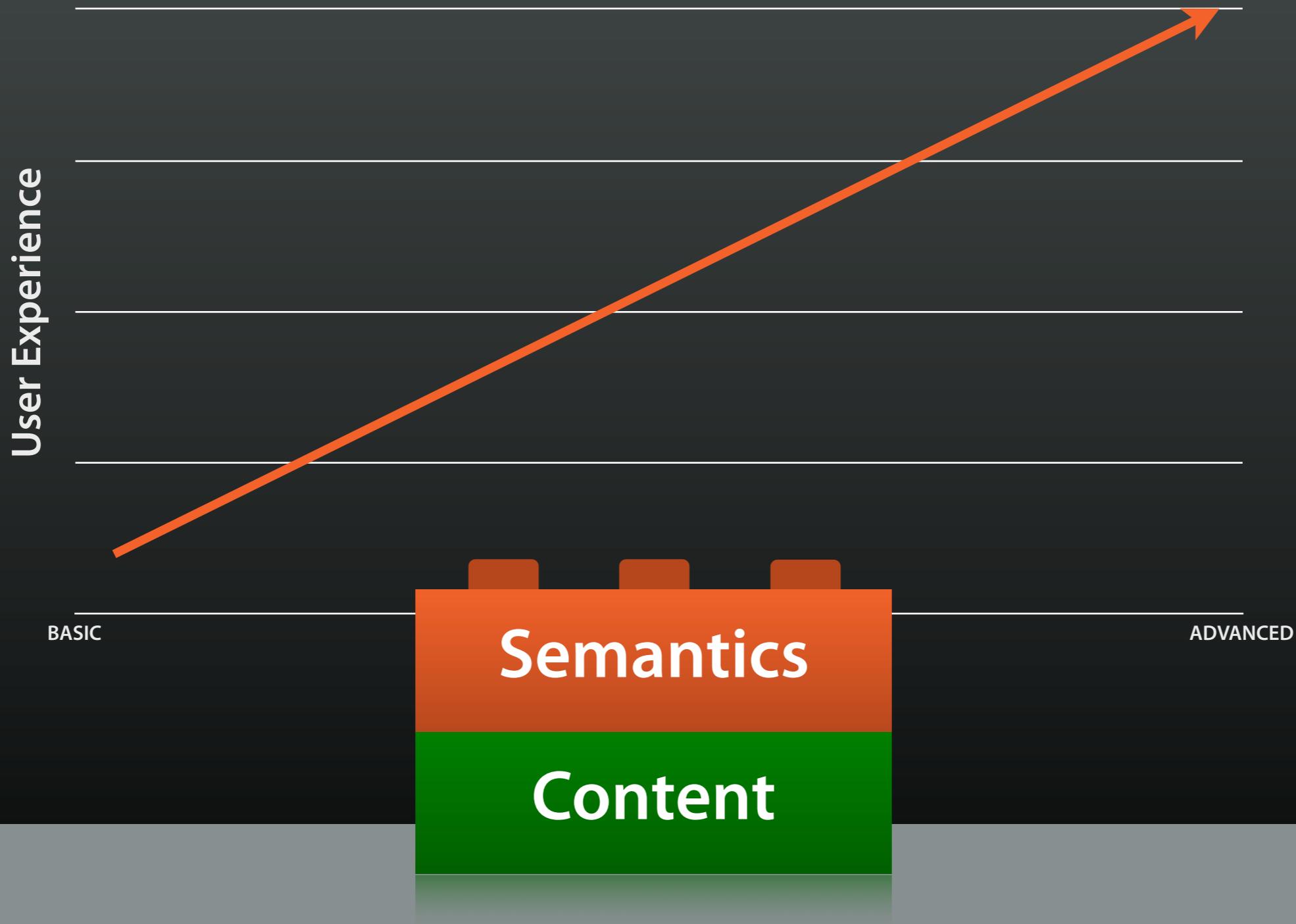
User Experience

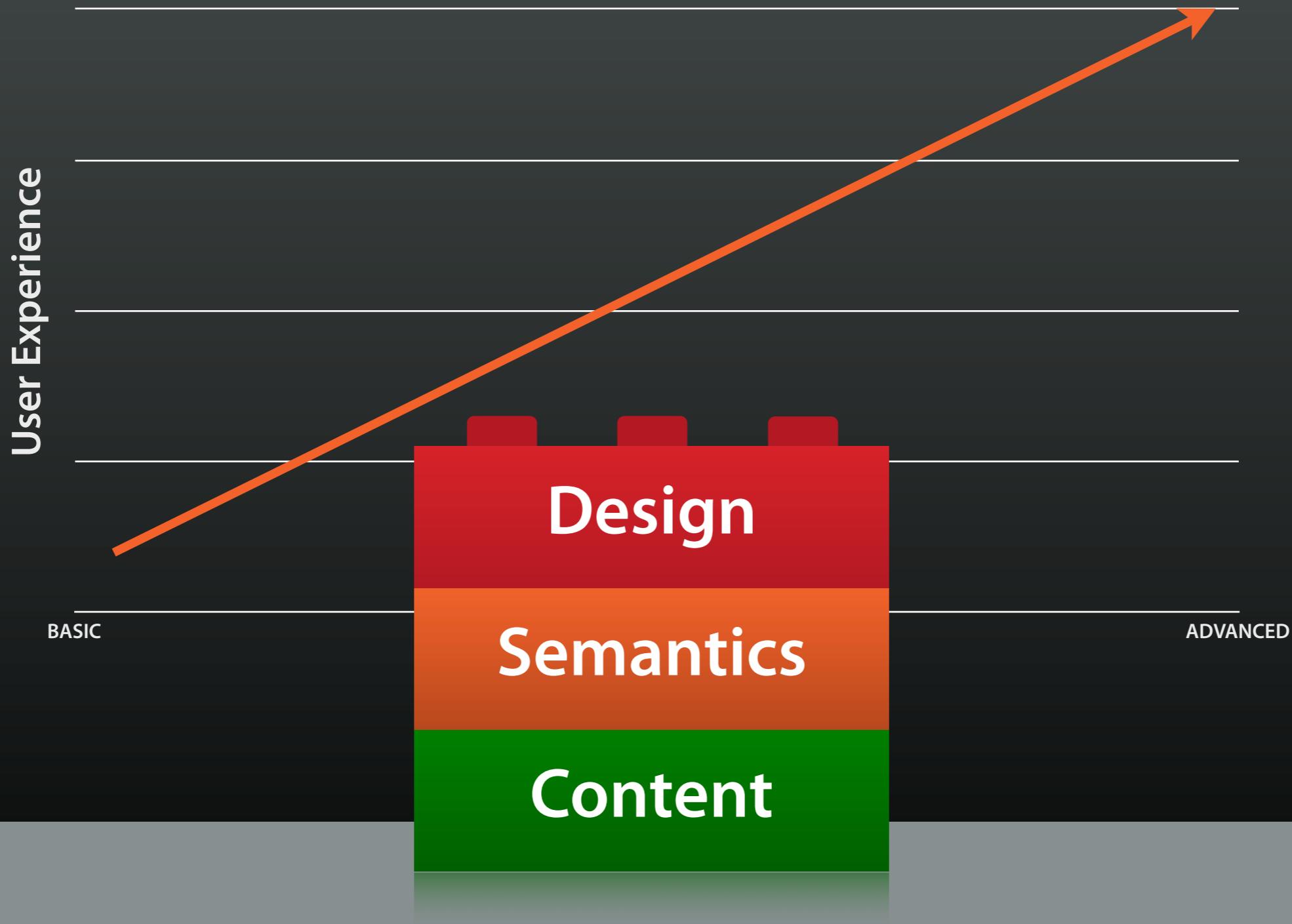
BASIC

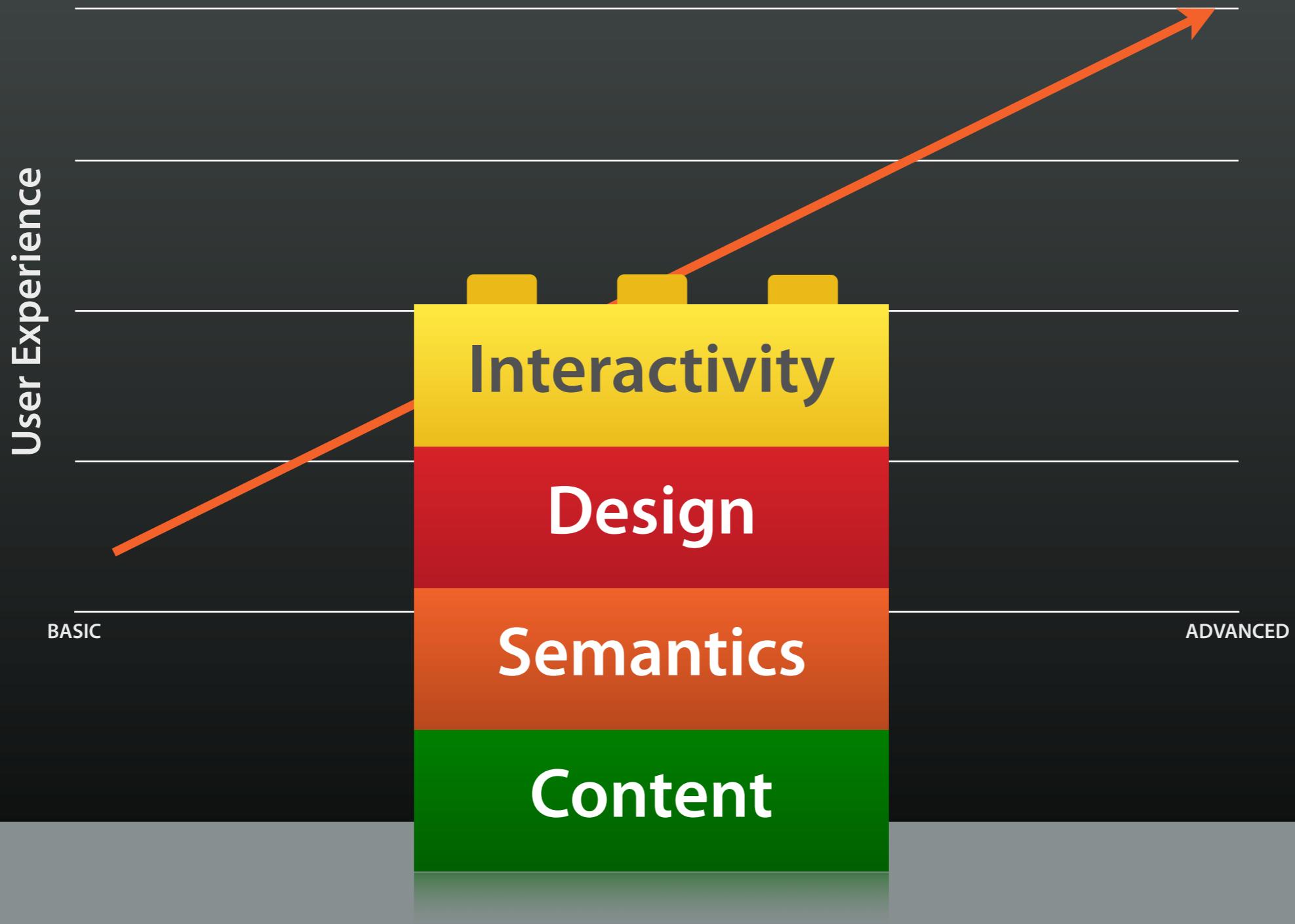
ADVANCED

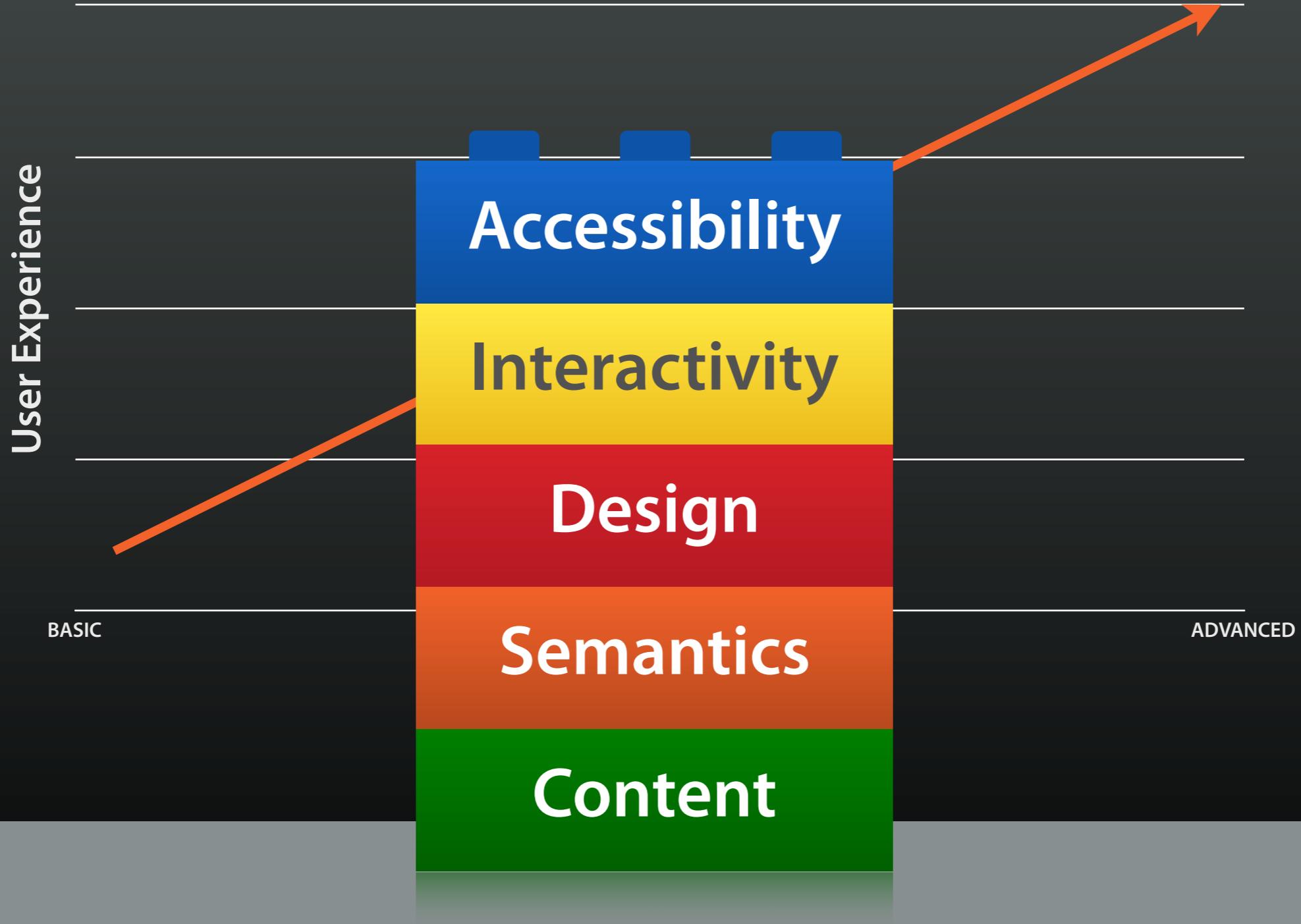
Browser Capabilities

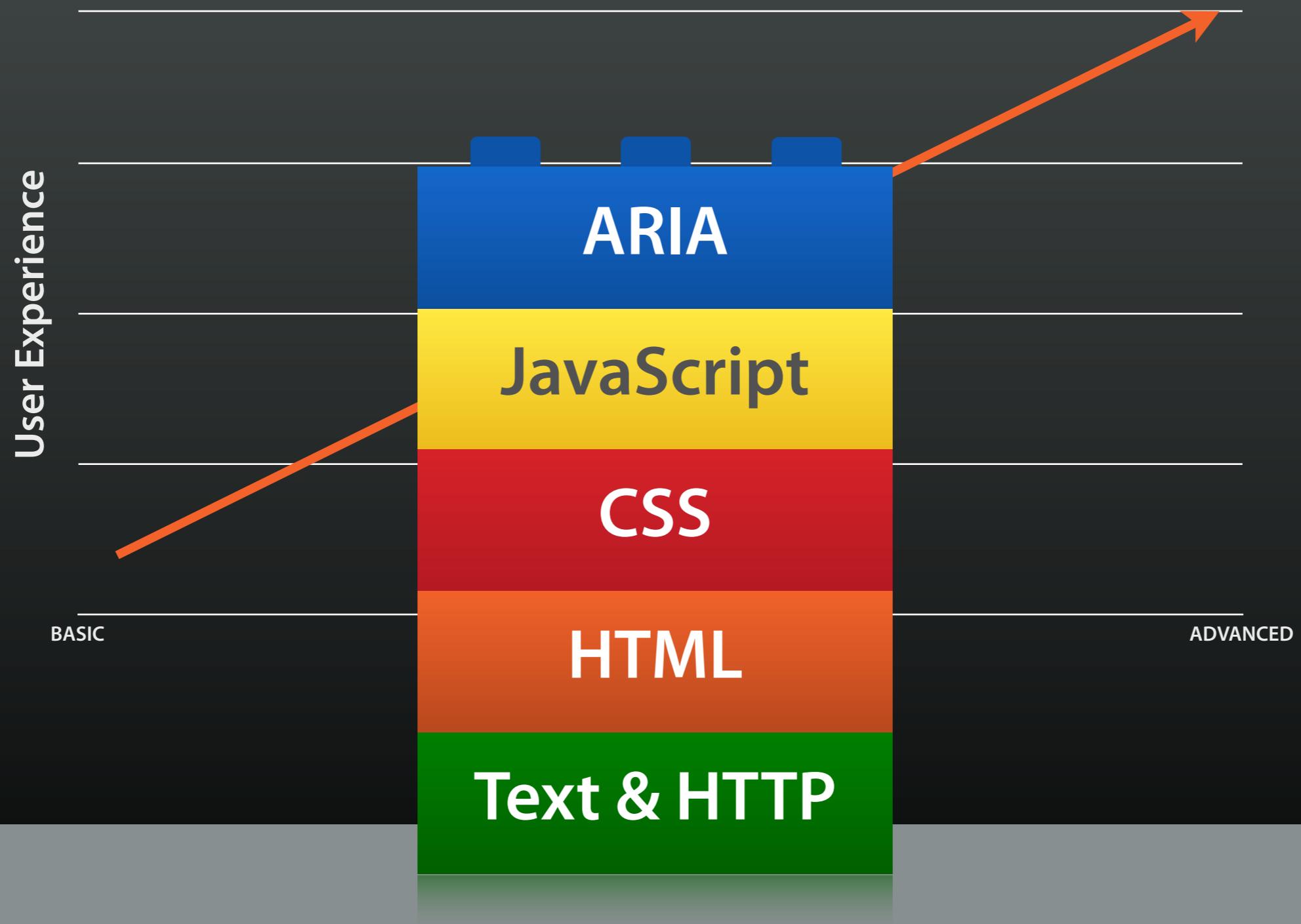
Content













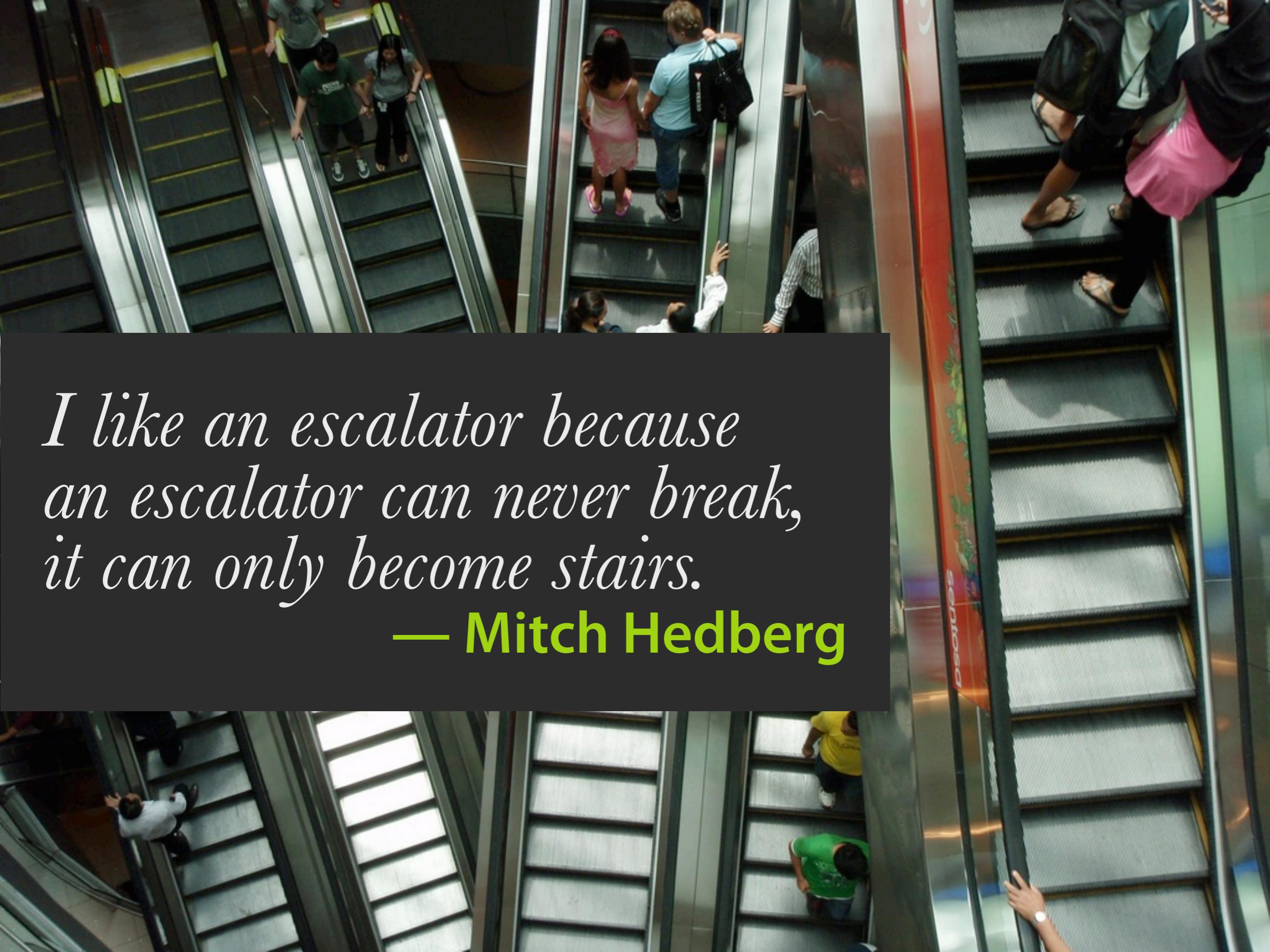
HTML

HTML5

The diagram consists of three horizontal orange rectangles of equal height, centered on a dark gray background. The top rectangle contains the text "HTML5". The middle rectangle contains the text "Microformats". The bottom rectangle contains the text "HTML4". Each orange rectangle is separated from the others by a thin black horizontal line. Above each orange rectangle, there is a small, solid orange rectangular tab extending upwards.

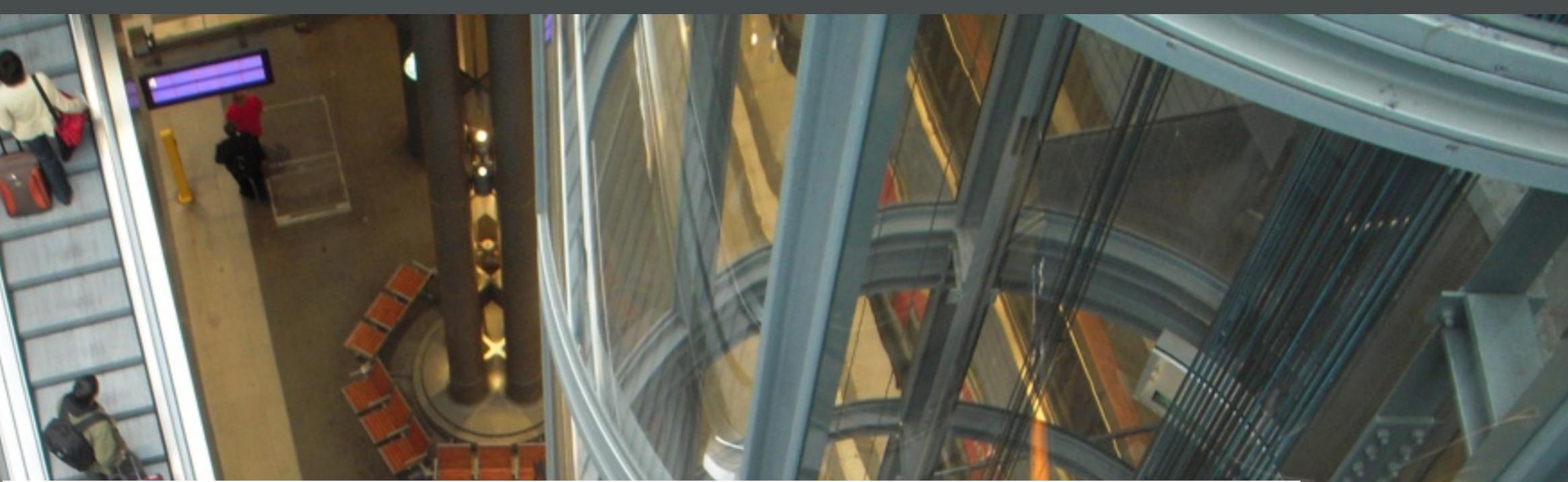
Microformats

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



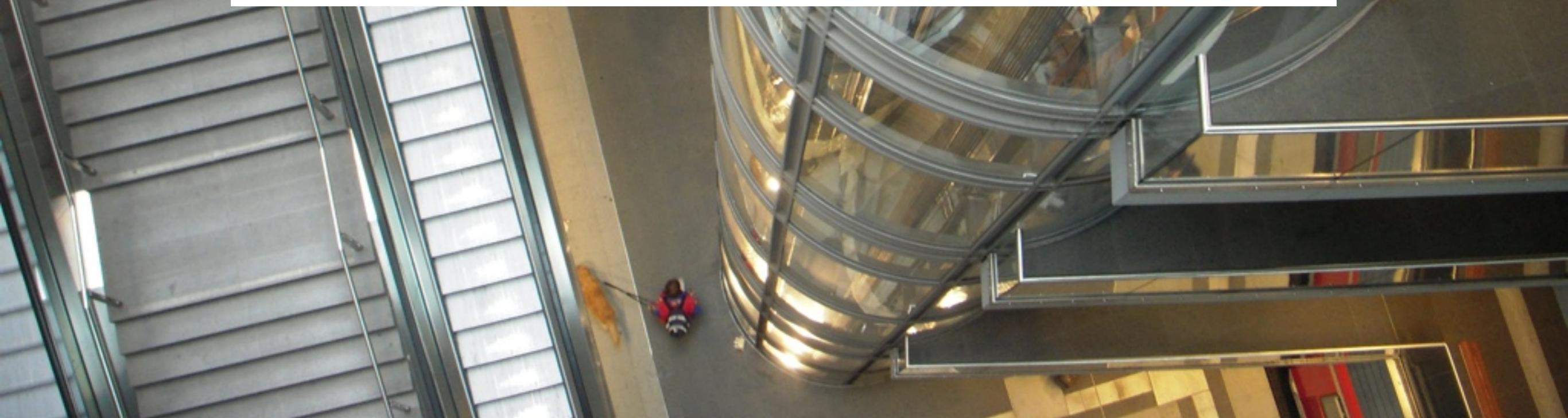
Reply



Retweet



Favorite



Graceful Degradation

Modern Browsers

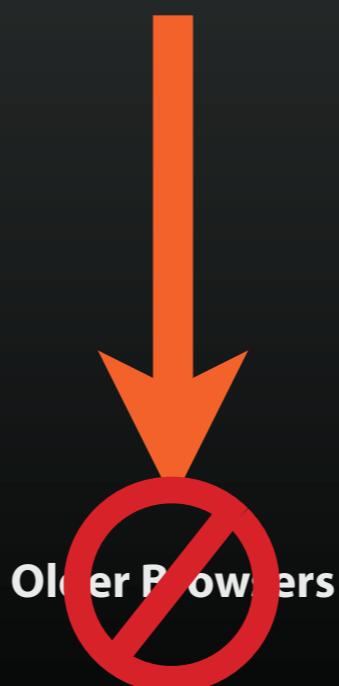
Older Browsers

Modern Browsers



Older Browsers

Modern Browsers





WEEKENDHACKER

WEEKENDHACKER

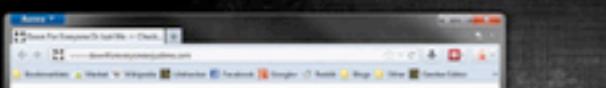
Make the Best of Your Travel Plans This Weekend

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 »](#)

RELATED STORIES

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- [Discover Some New Music This Weekend](#)
- [Find Yourself Some Great Deals This Weekend](#)

WEB SITES



TAXES



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



£10 OFF
your first
online shop*

Start saving

www.tesco.com

*When you spend £50 or more. Excludes delivery charge. Terms here.



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](#)

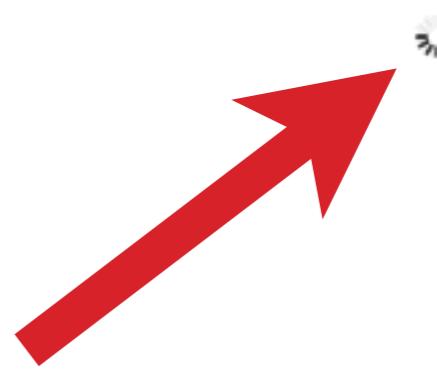
MORE STORIES...

[App Deals](#)

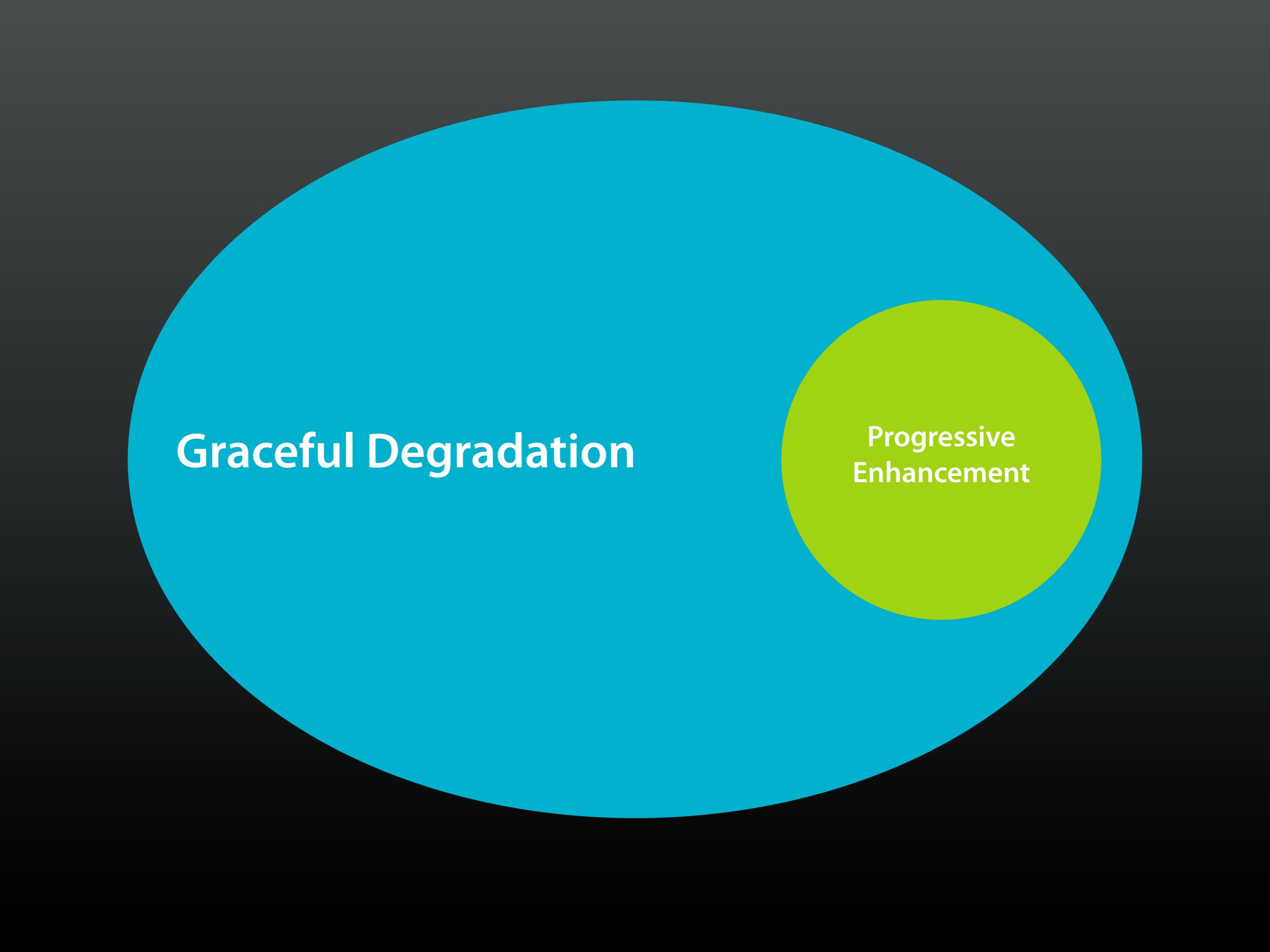
[» The Ultimate Black Friday Gadget](#)

TIPS AND DOWNLOADS FOR
GETTING THINGS DONE

[MORE STORIES...](#)



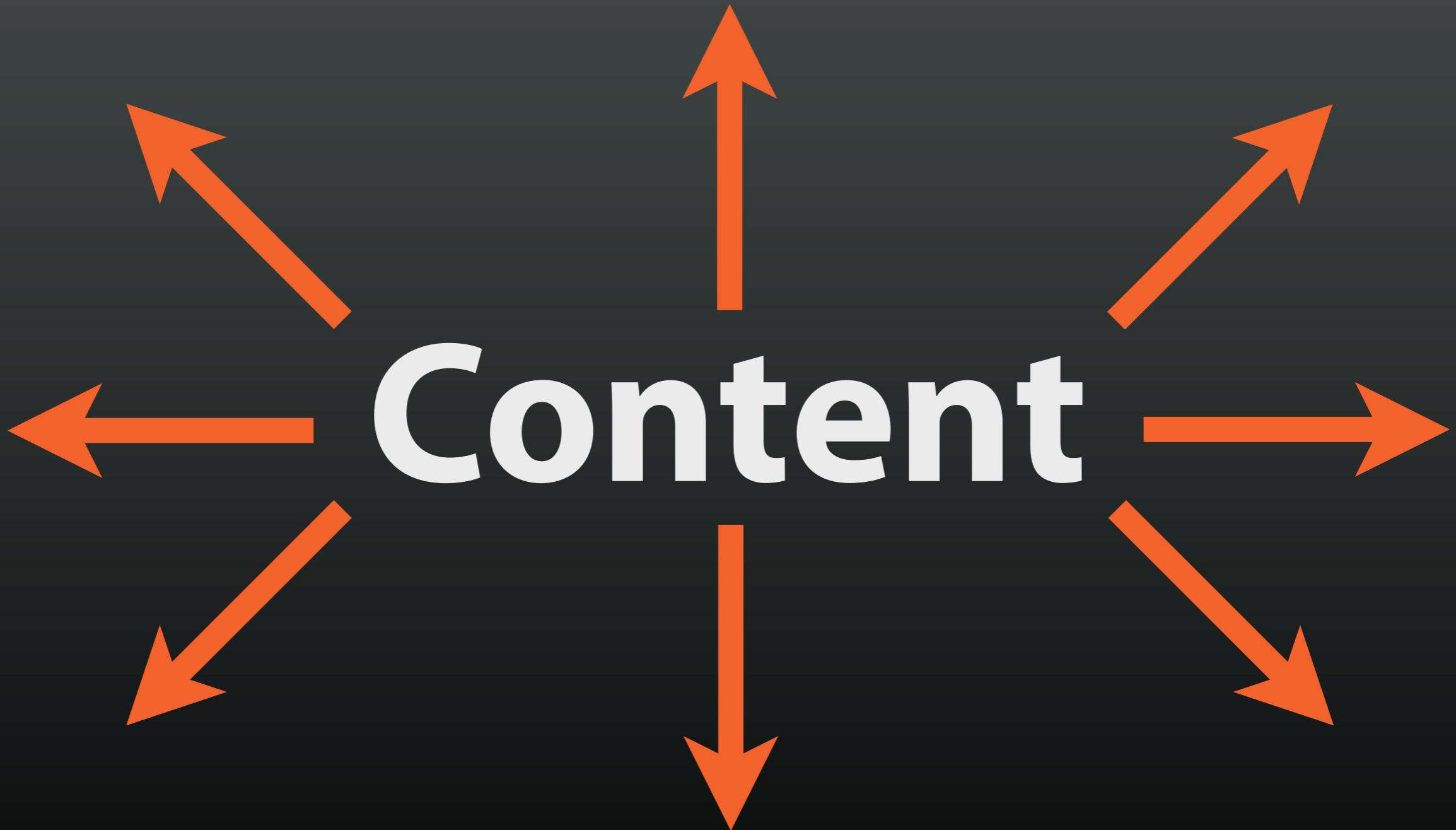


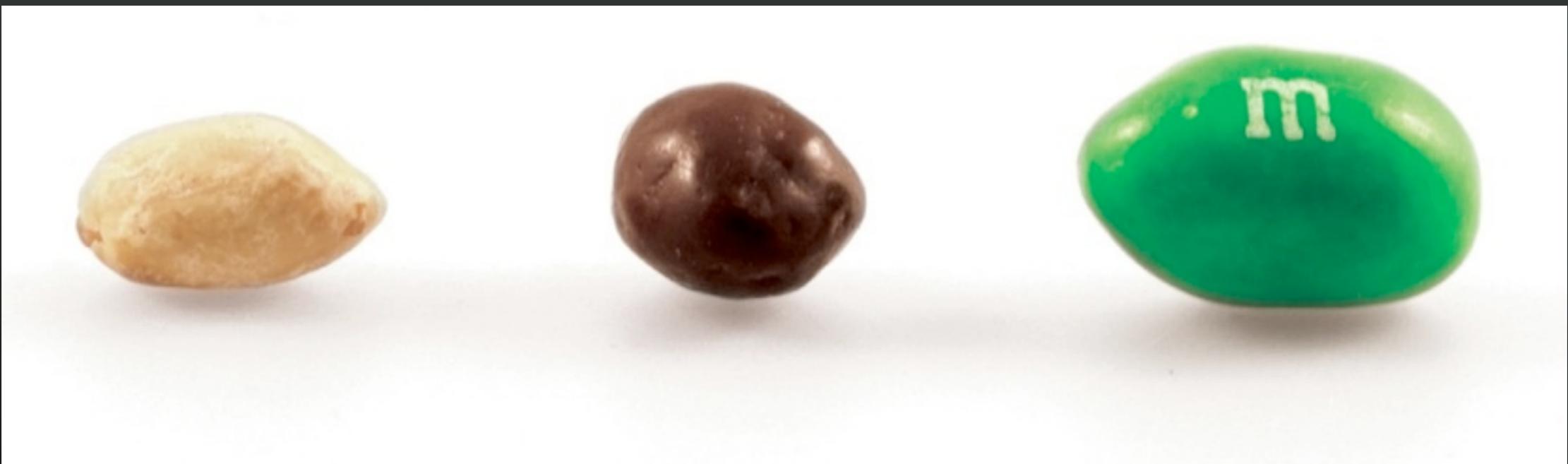


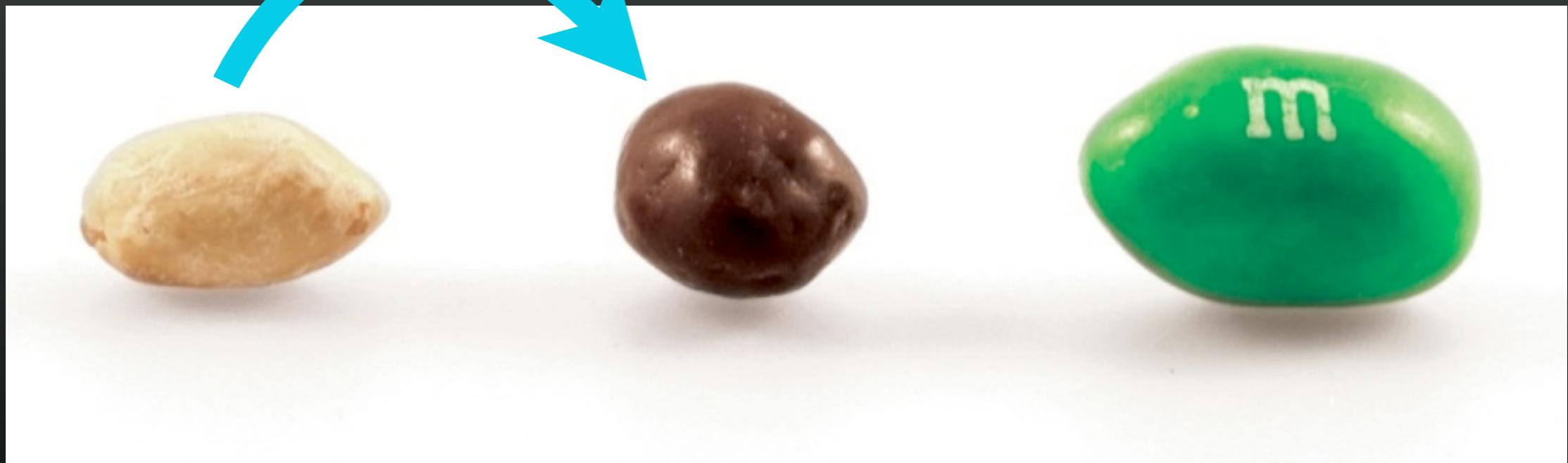
Graceful Degradation

Progressive
Enhancement

Content





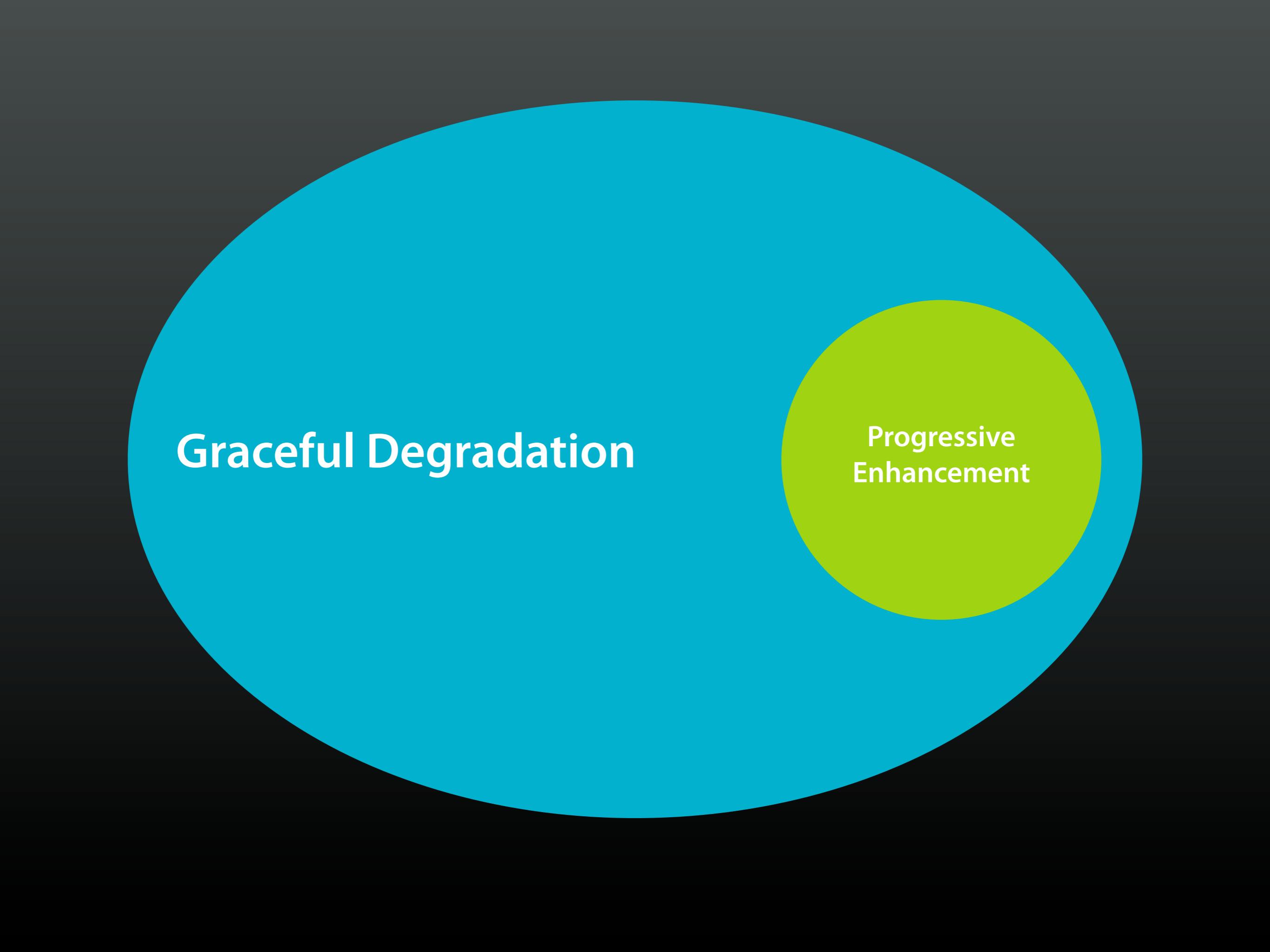






**YOU MUST BE THIS TALL
TO RIDE WITH AN ADULT**

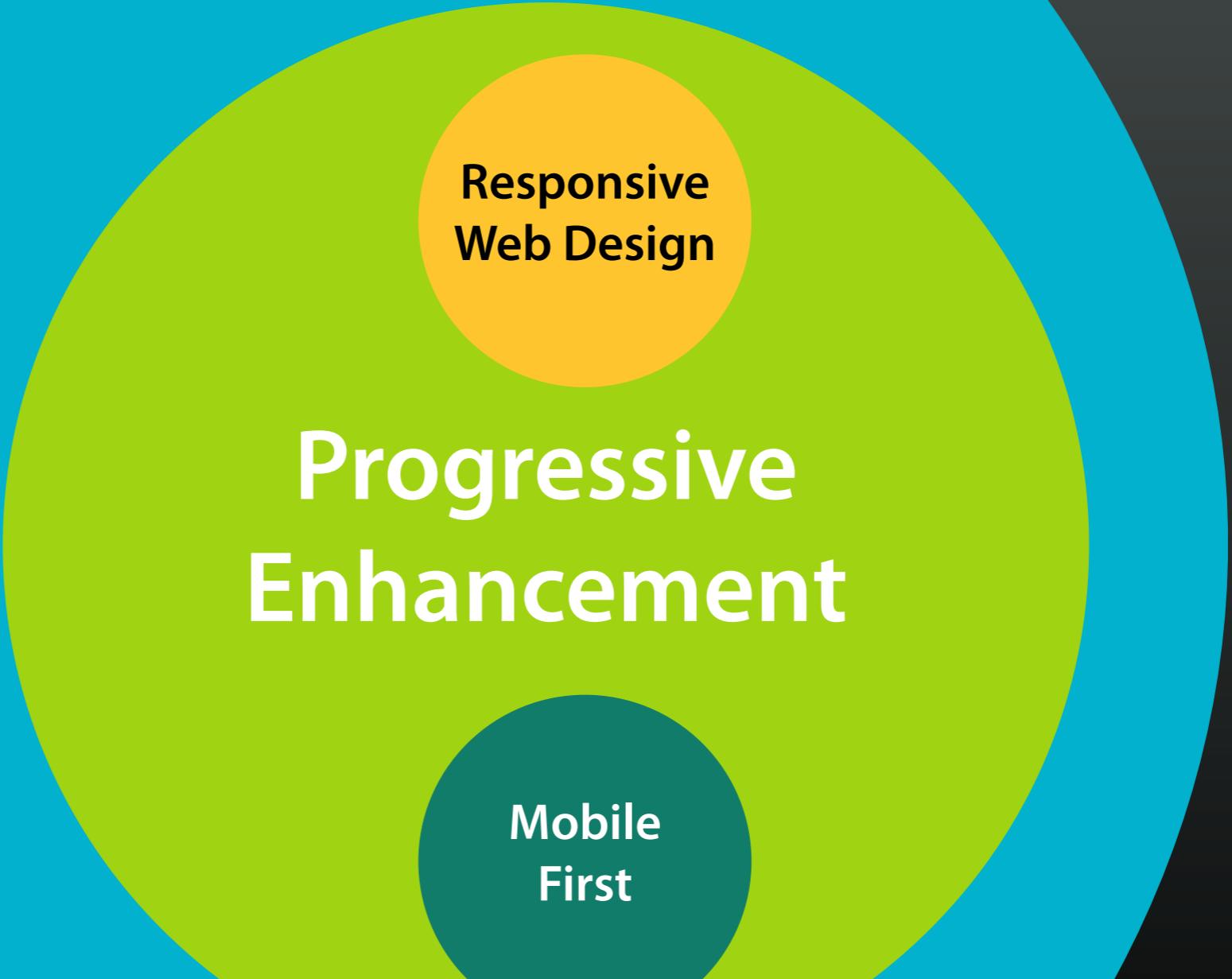




Graceful Degradation

Progressive
Enhancement

on



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

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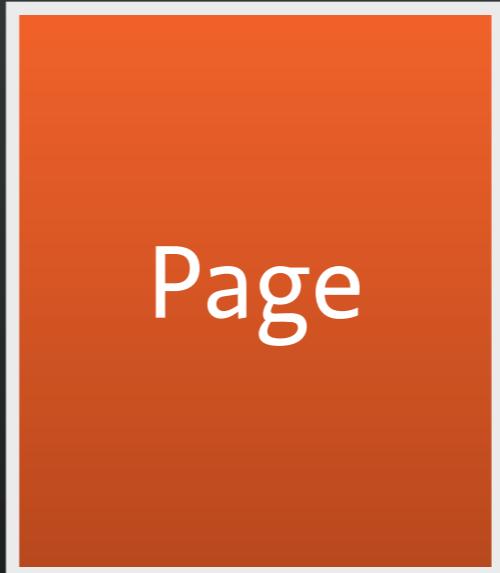
There is no image...

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<p class="entry-image"  
    data-image-src="/alztheme/images/news/sample.jpg"></p>
```

Until there is

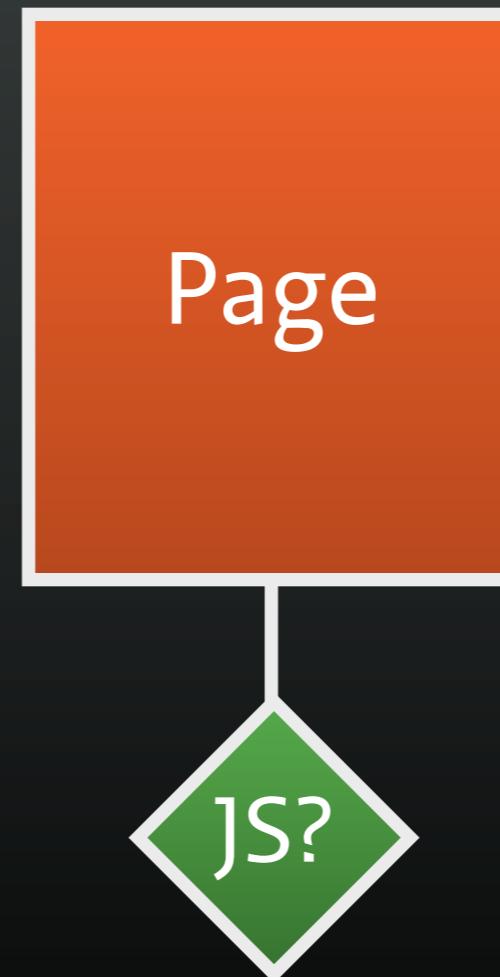
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</p>
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Adaptive widget logic

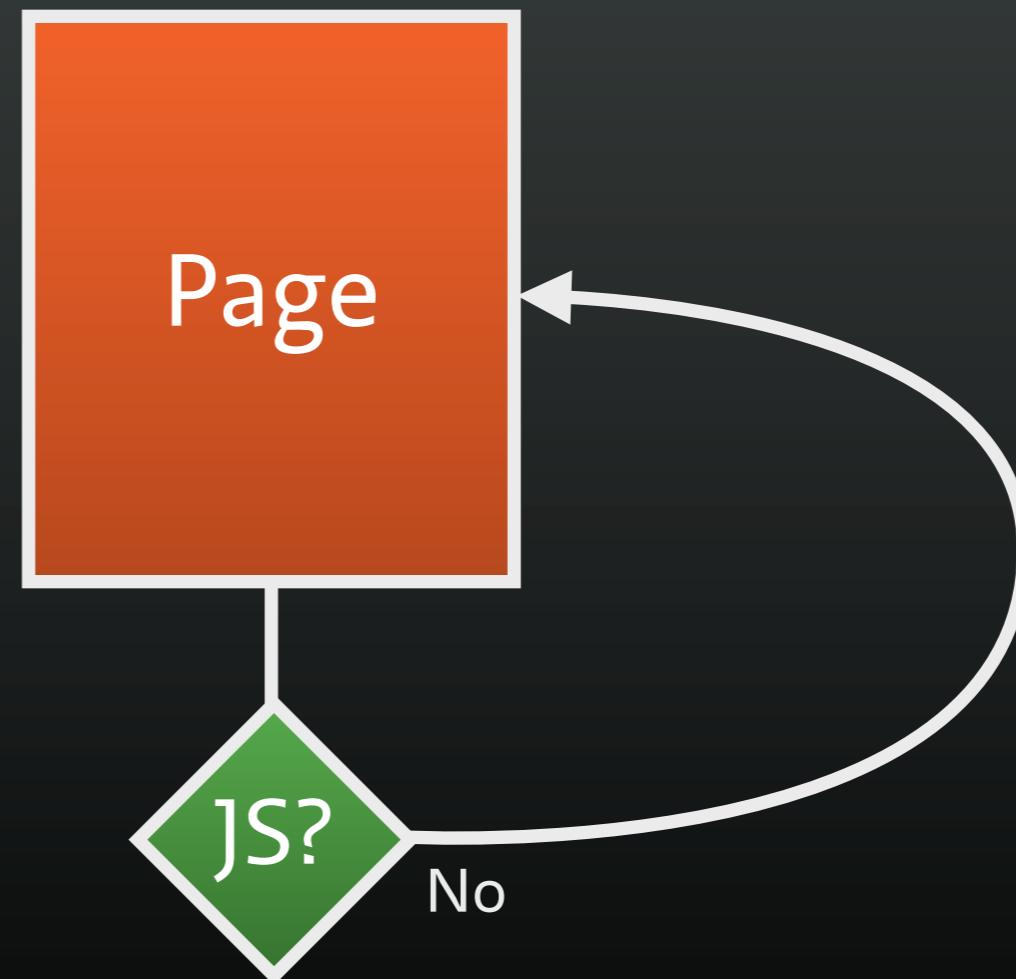


Page

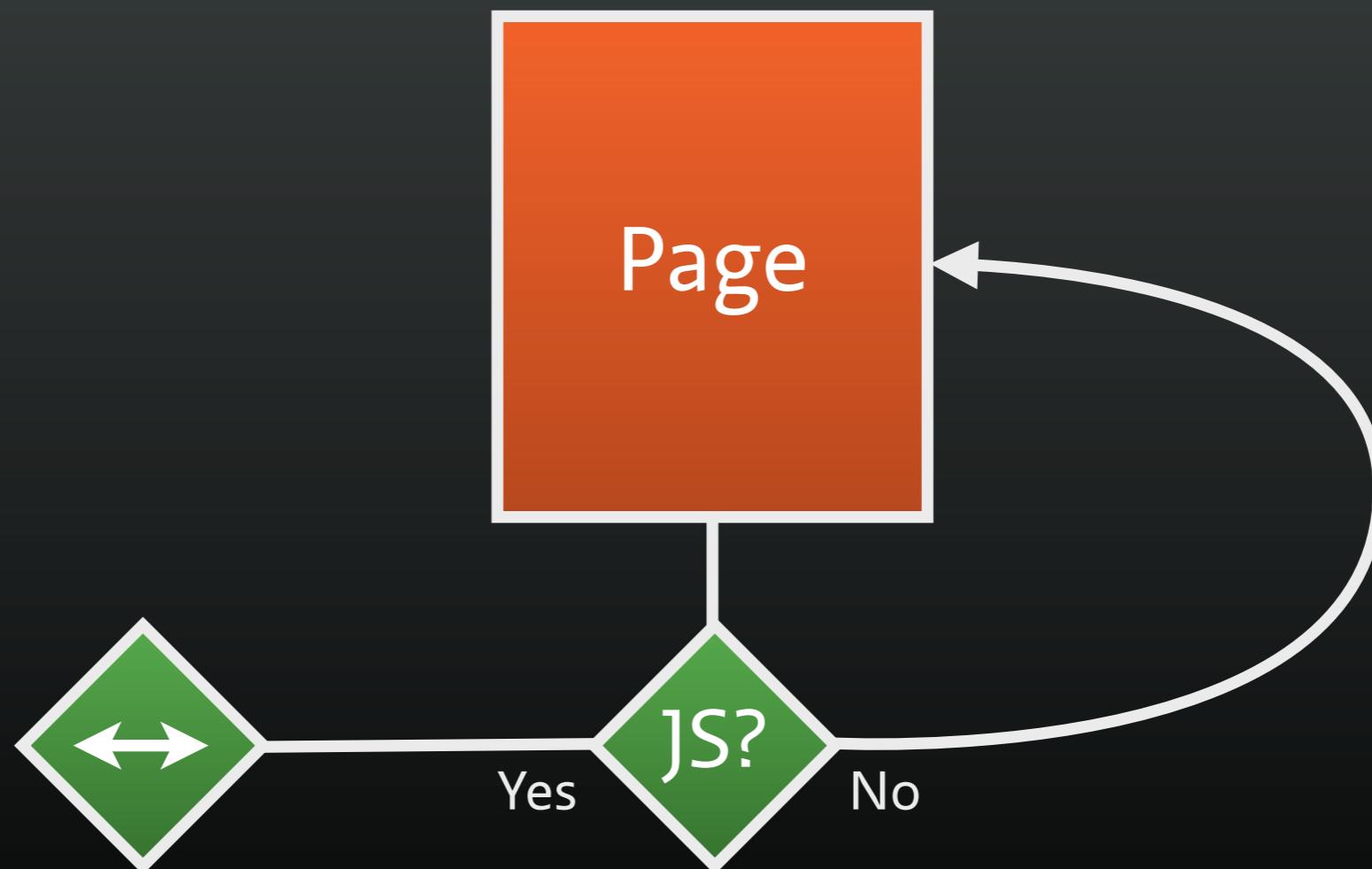
Adaptive widget logic



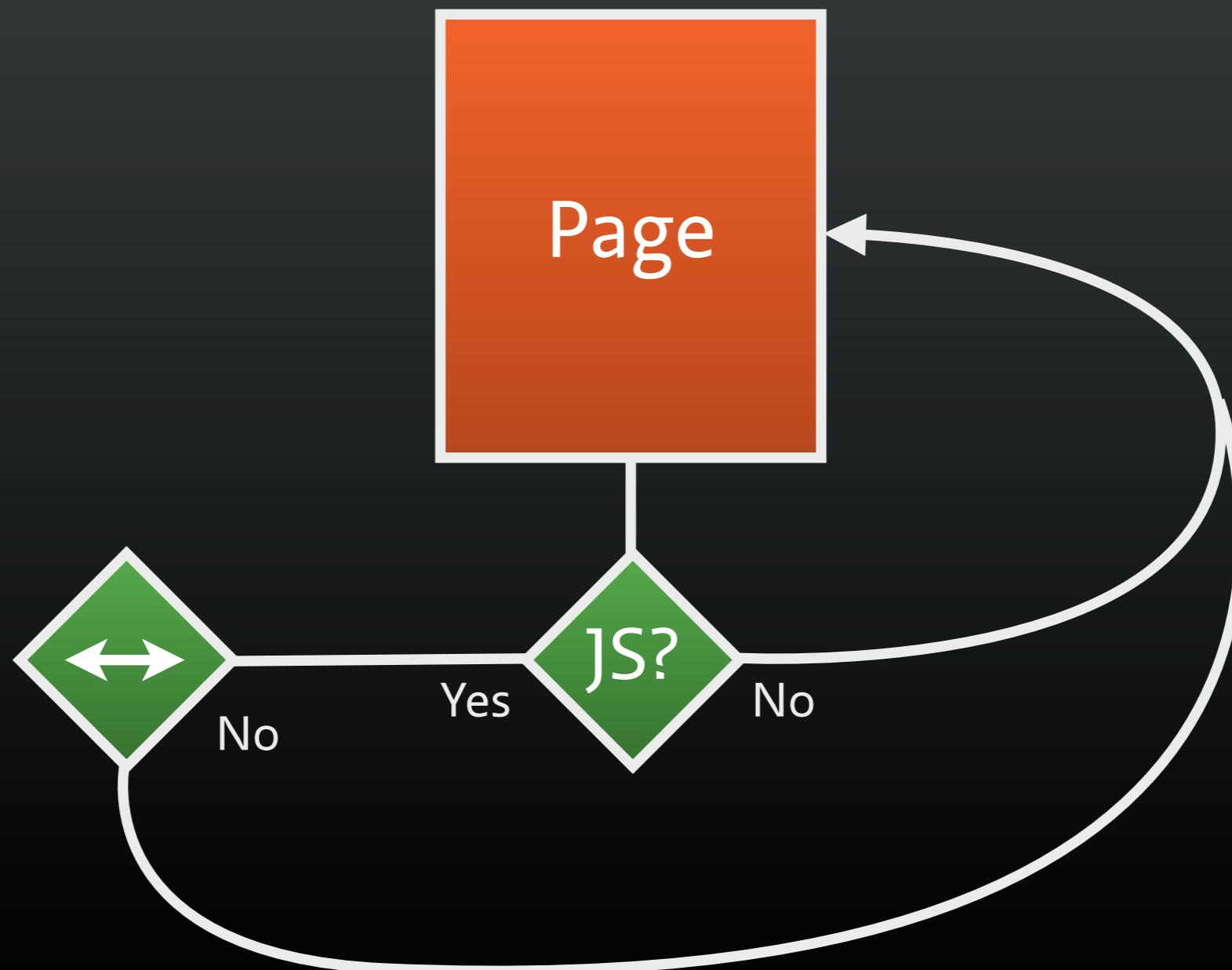
Adaptive widget logic



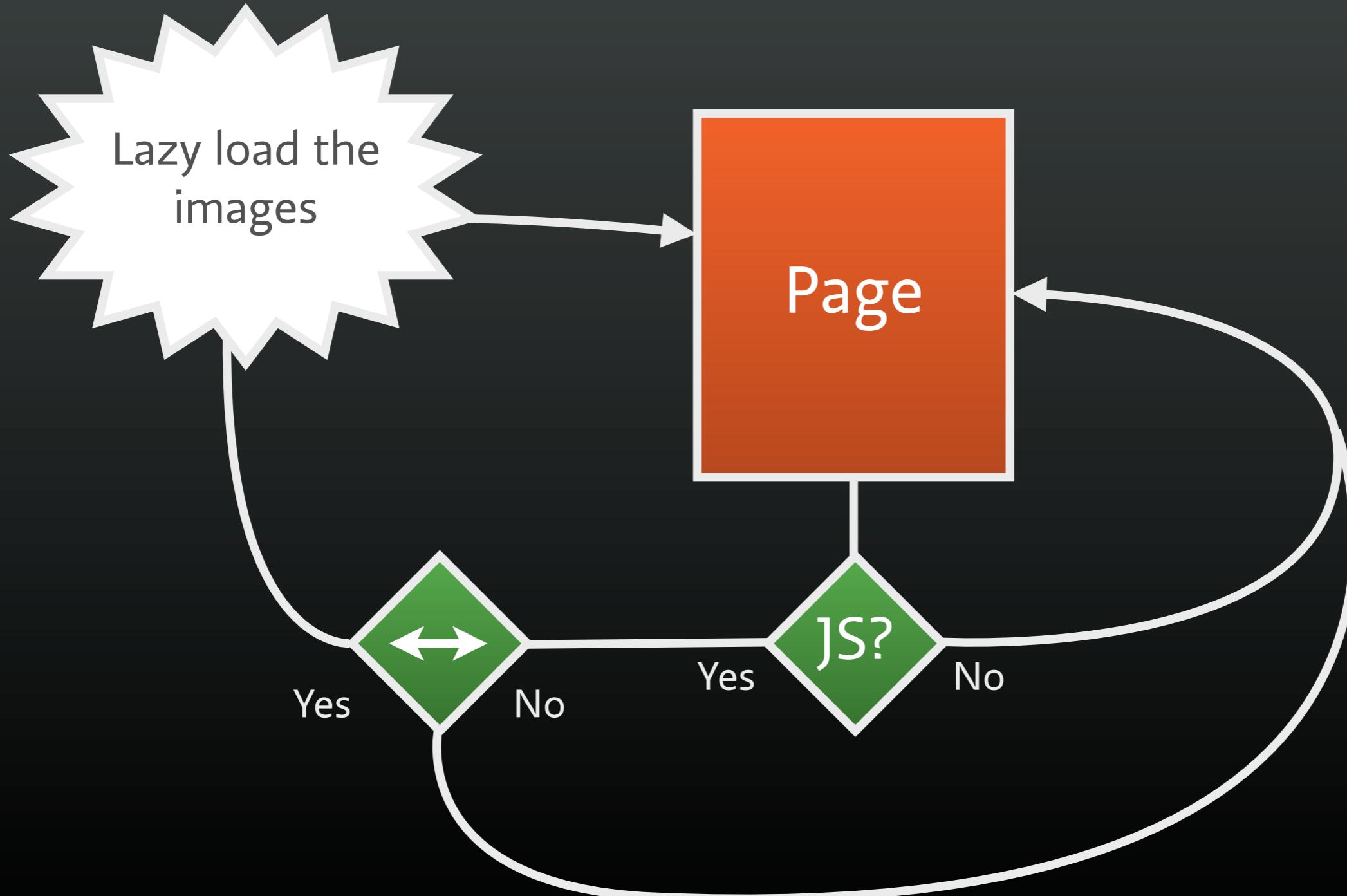
Adaptive widget logic



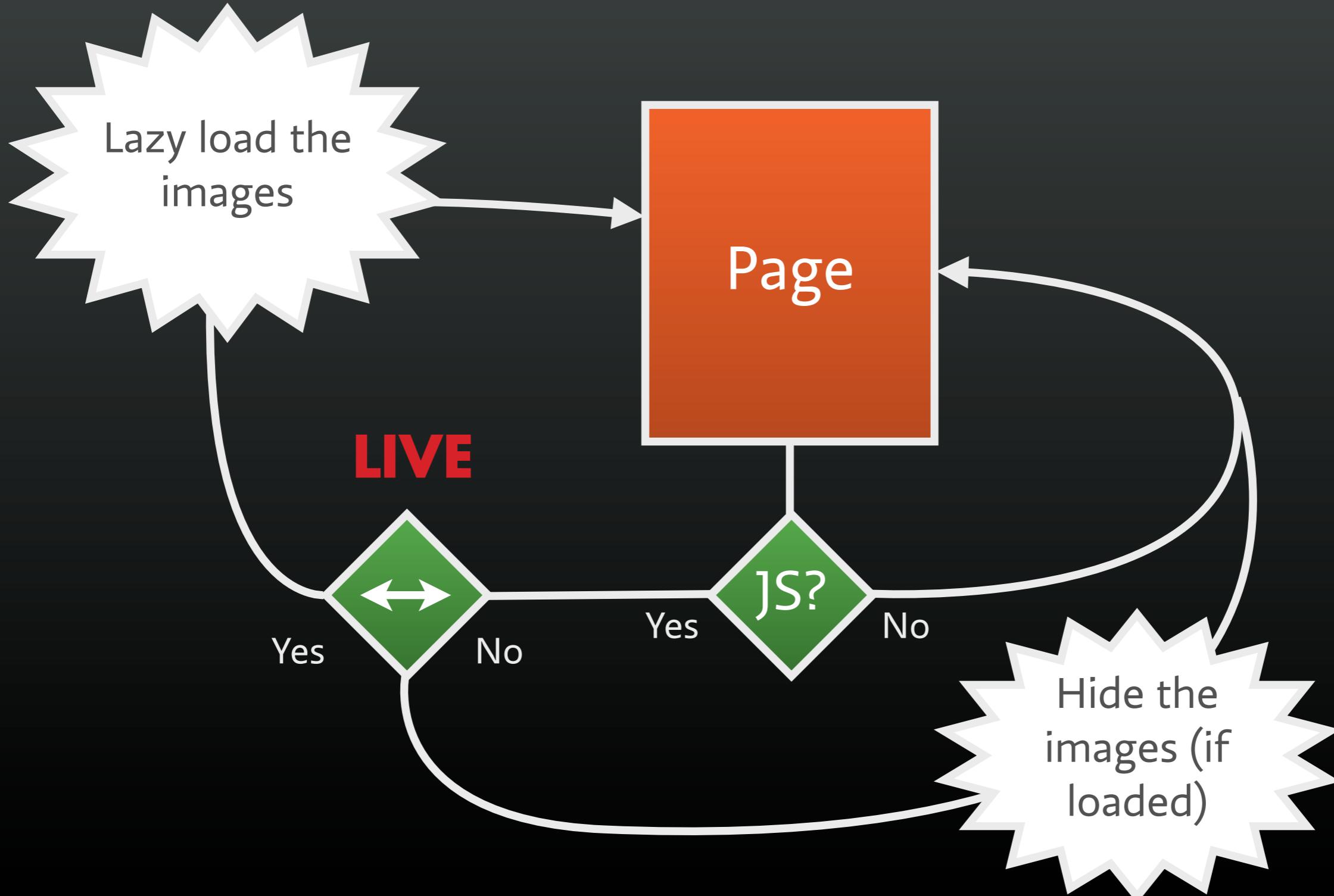
Adaptive widget logic



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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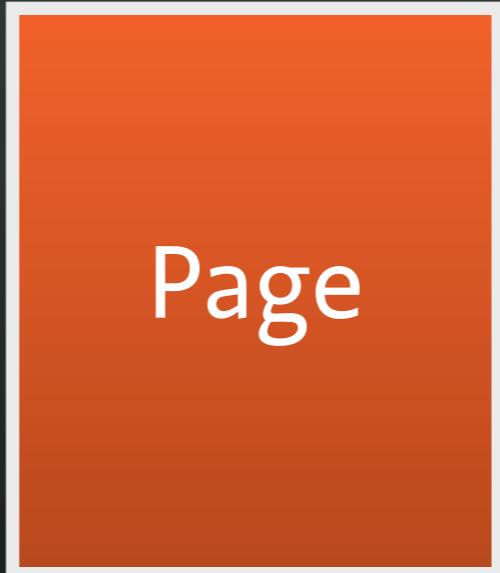
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No need to link

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    <p>We built this site for our intimate retreat series.</p>
  </figcaption>
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Adaptive widget logic

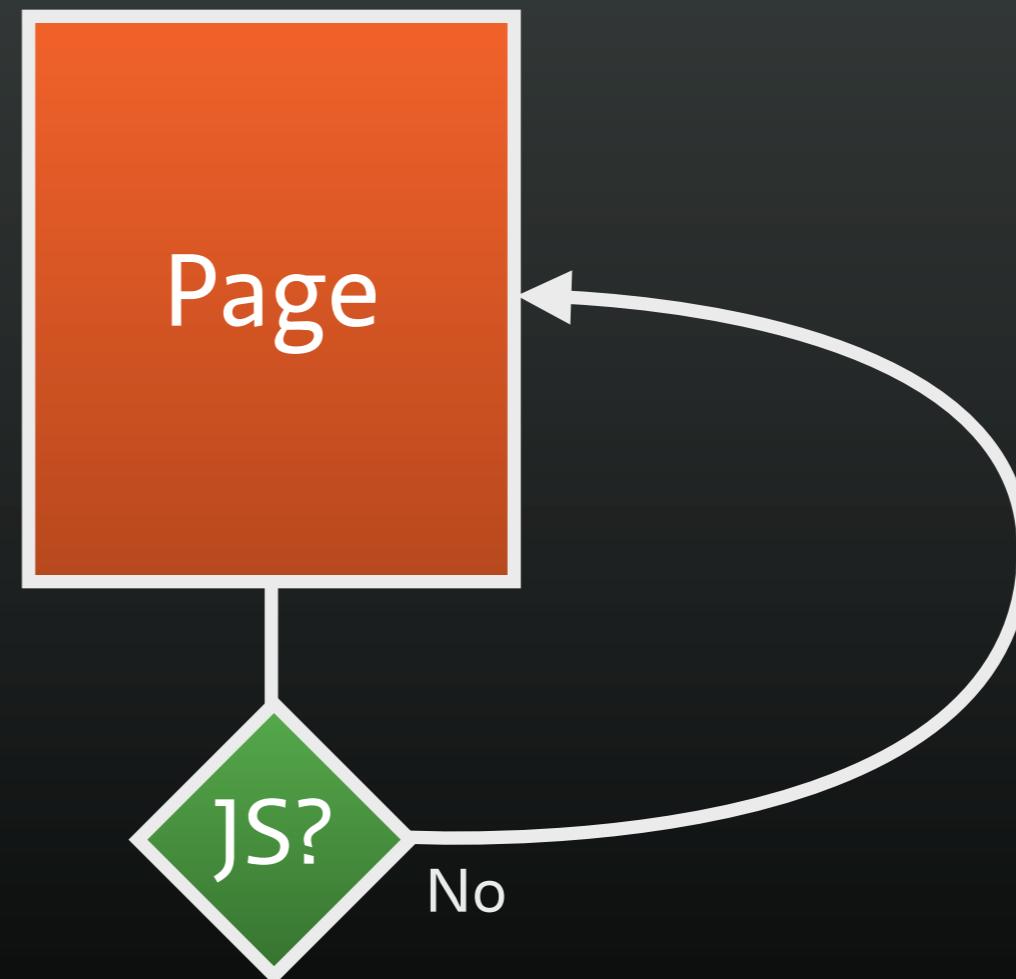


Page

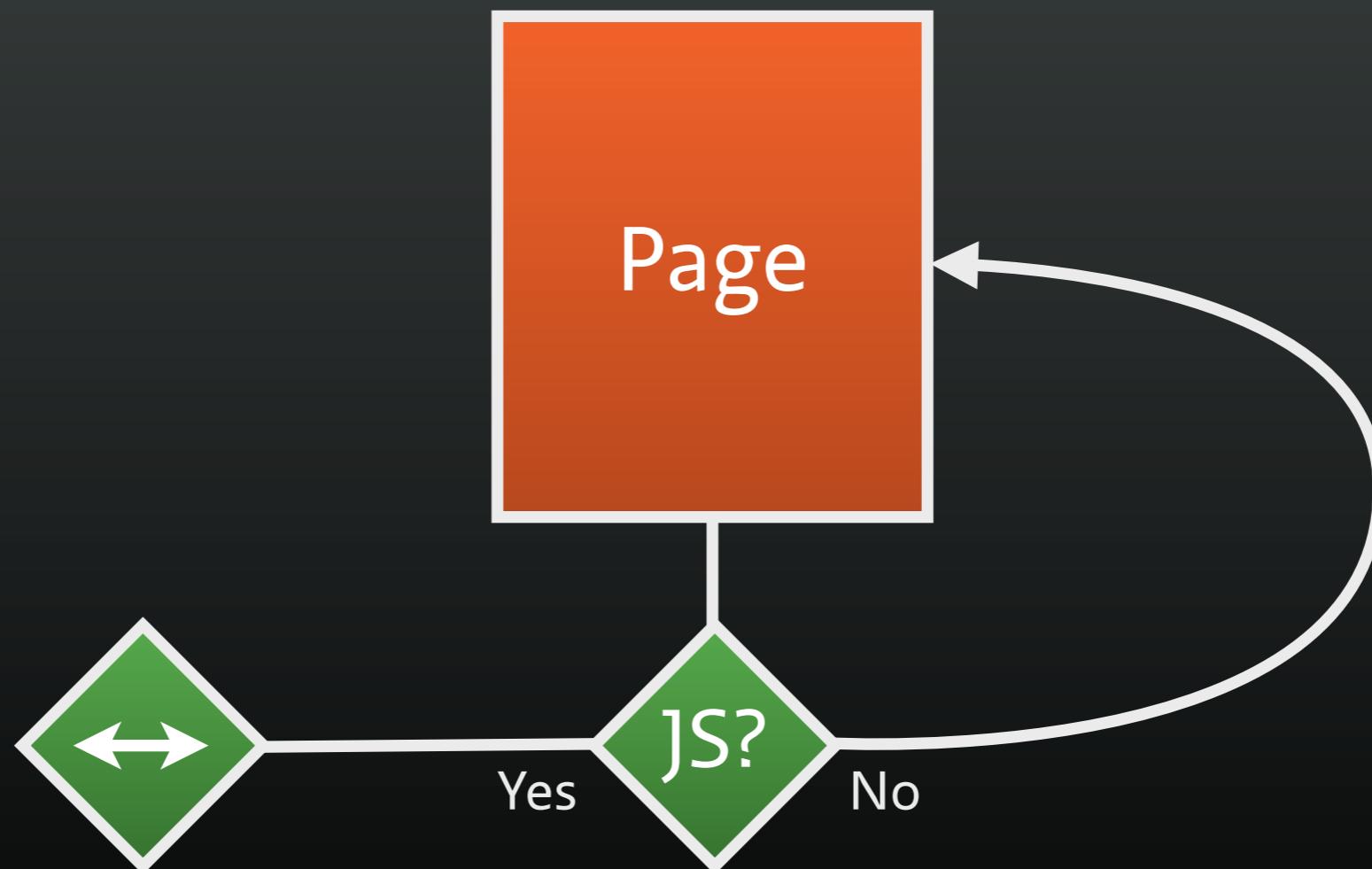
Adaptive widget logic



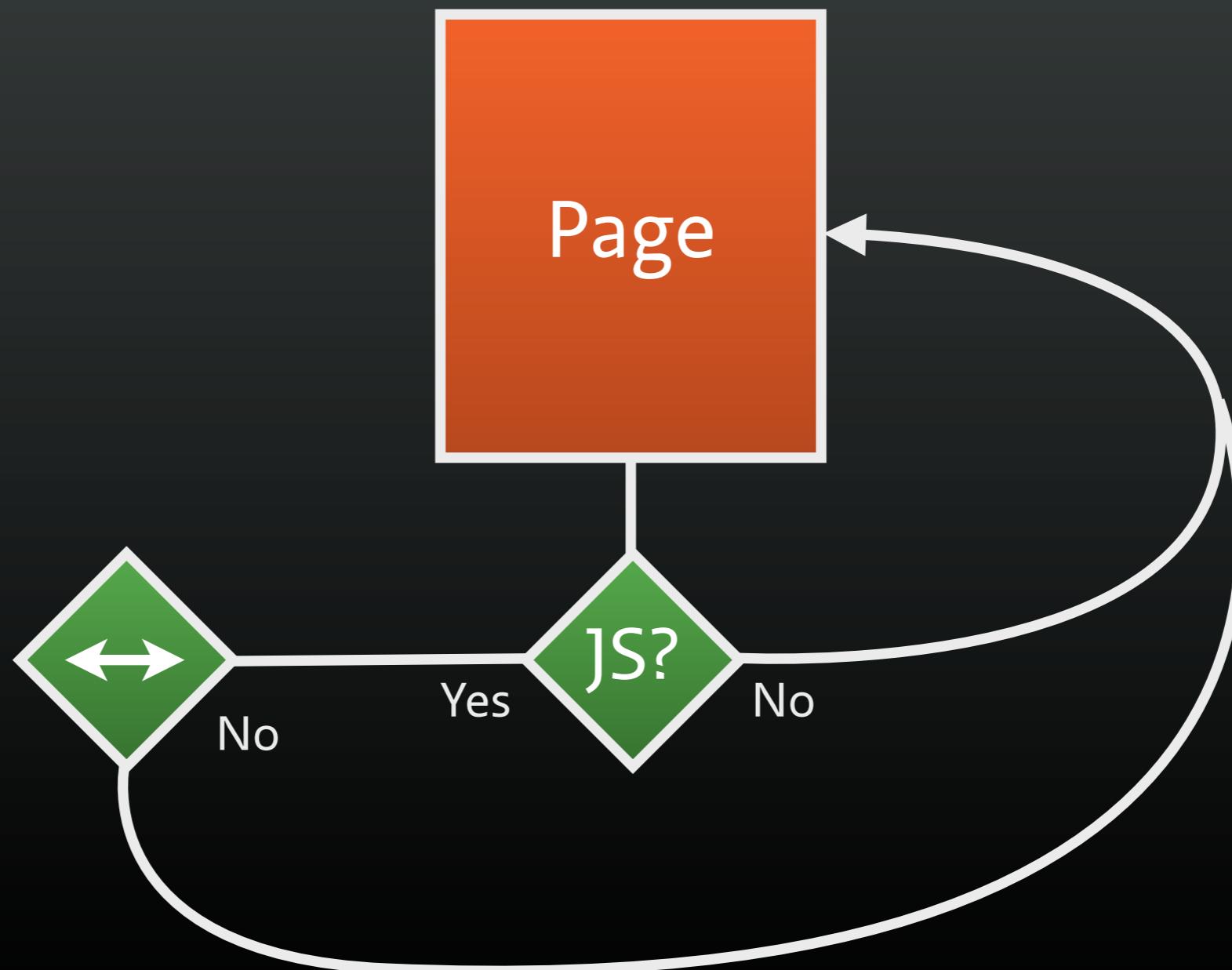
Adaptive widget logic



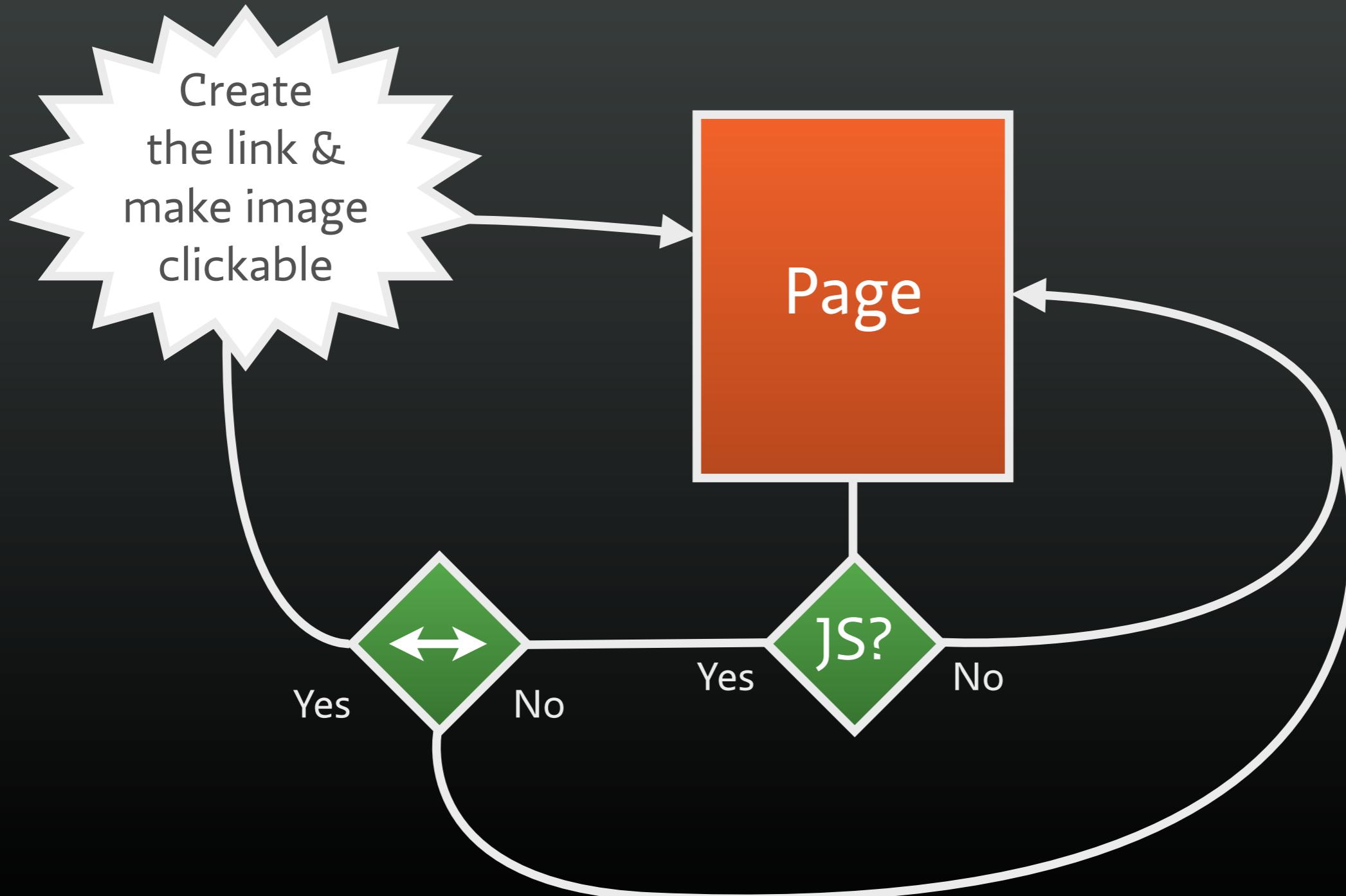
Adaptive widget logic



Adaptive widget logic



Adaptive widget logic



Complex interfaces



CLICK TO ENLARGE

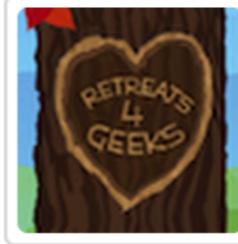
Retreats 4 Geeks

We built this site for our intimate retreat series.

Our curriculum
instruction in web
trends in both de

Our facilitator
experience in the

Our approach
of it all is our love



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.

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

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

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> $\frac{1}{2}$  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
  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> $\frac{1}{2}$  cup white sugar</li>
    <!-- ... -->
  </ul>
  <h2>Directions</h2>
  <!-- ... -->
</div>
```

No JS, basic CSS

Pumpkin Pie

OVERVIEW

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

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Ready In: 1hr 10min



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

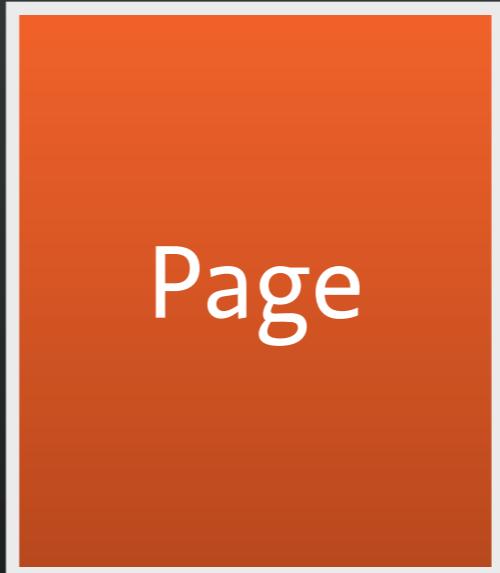
1 can (15oz) pumpkin puree

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

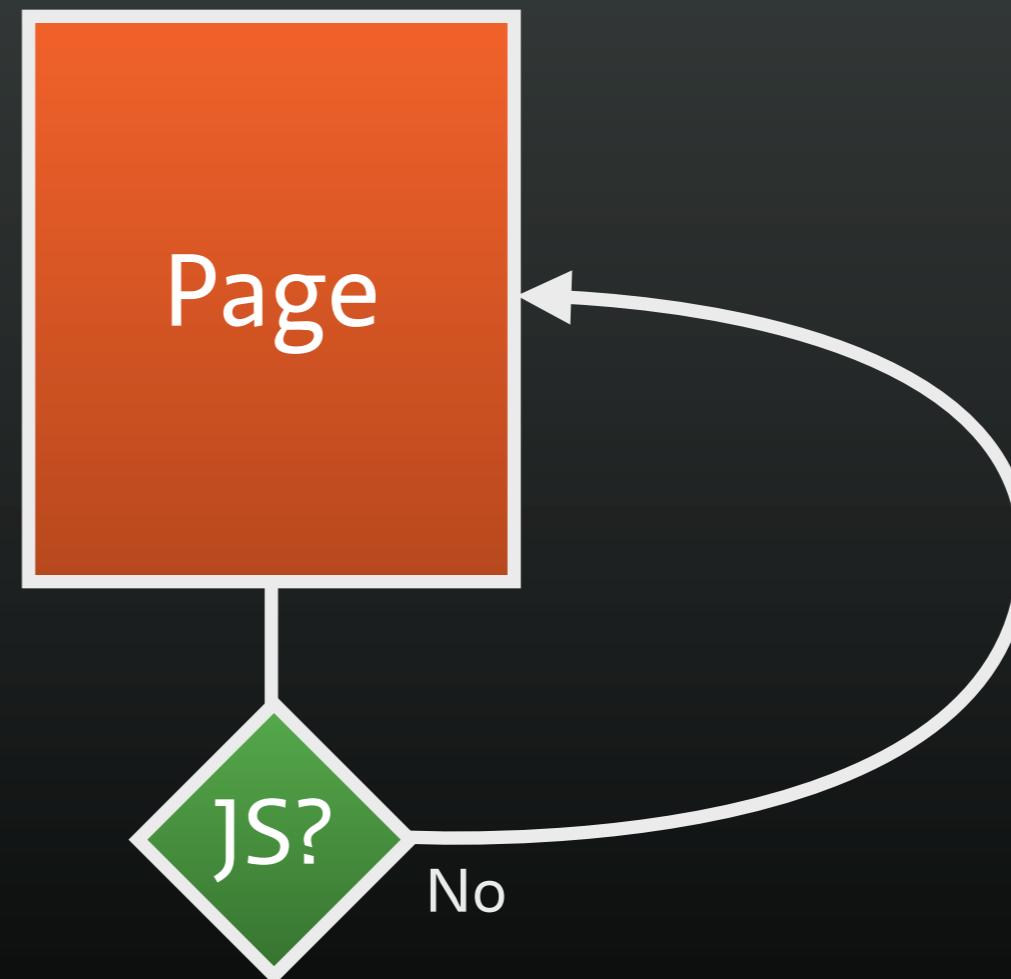


Page

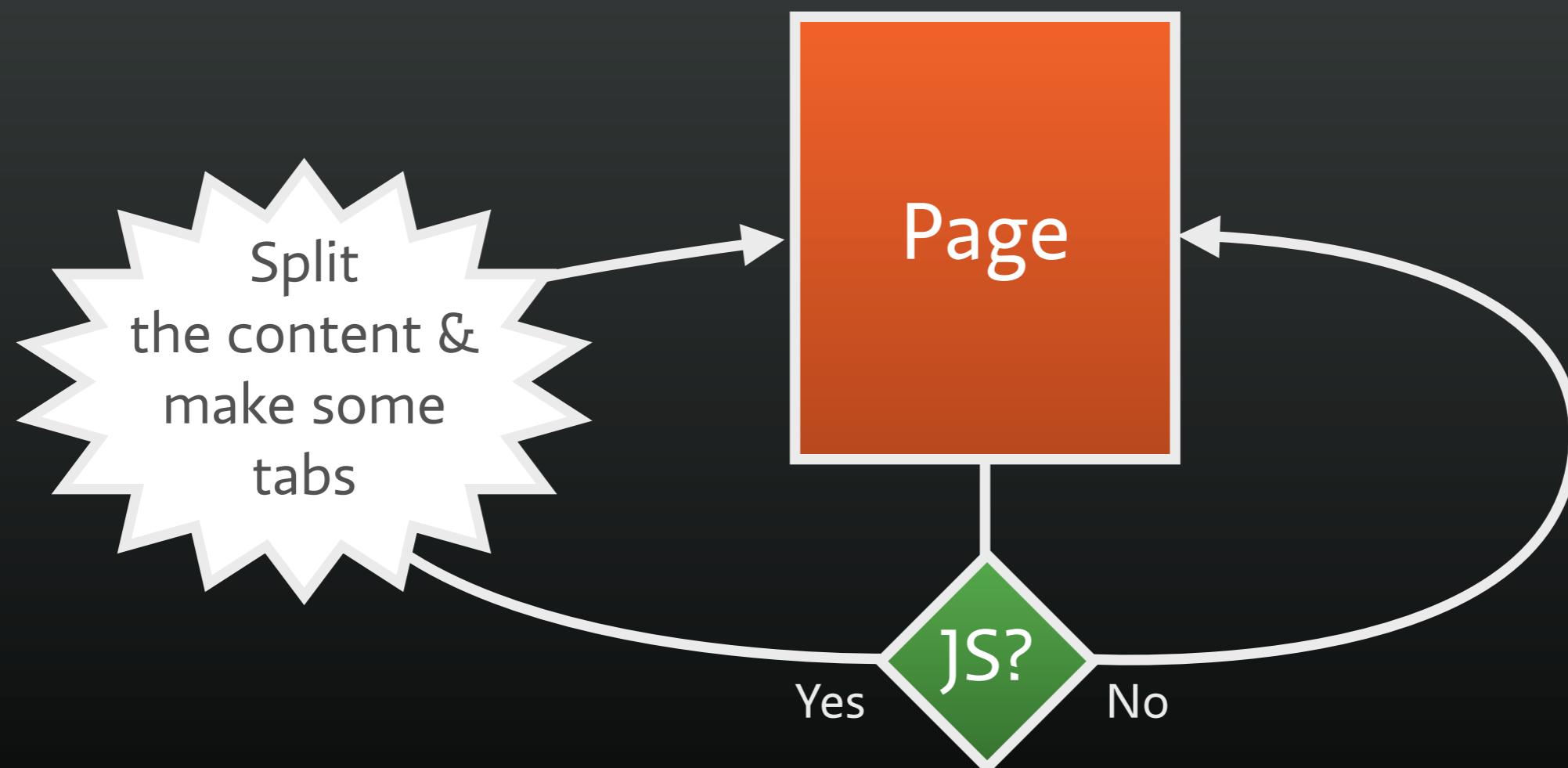
Widget logic



Widget logic



Widget logic



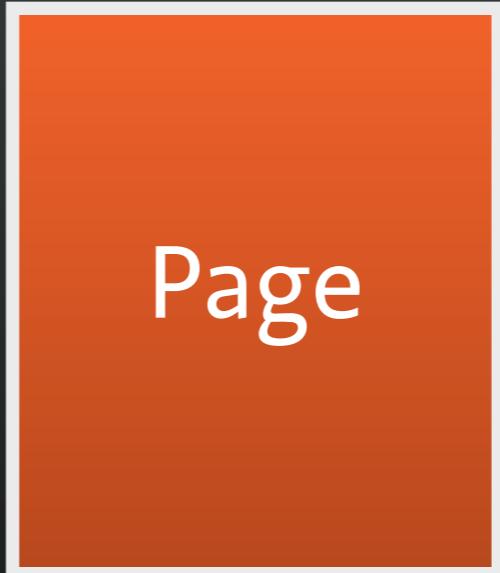
On DOM ready

```
<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> $\frac{1}{2}$  cup white sugar</li>
    <!-- ... -->
  </ul>
  <h2>Directions</h2>
  <!-- ... -->
</div>
```

Adaptive widget logic

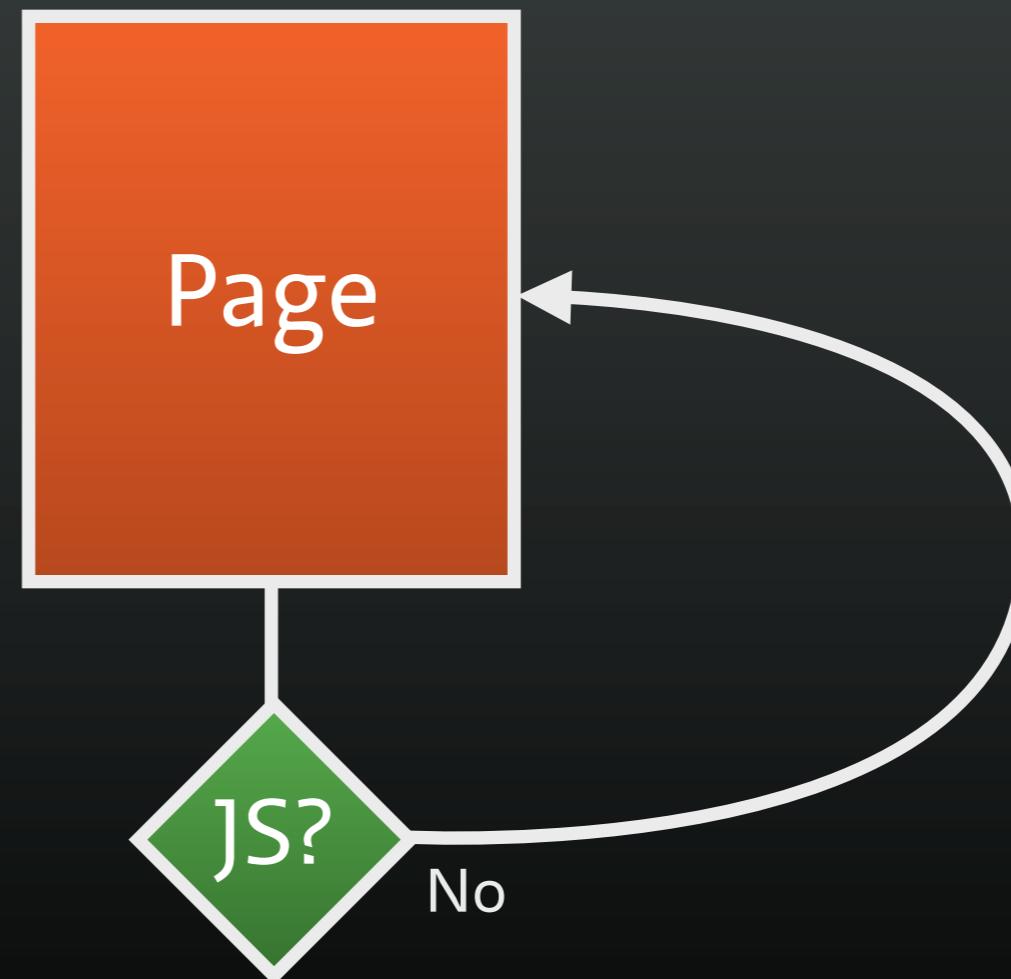


Page

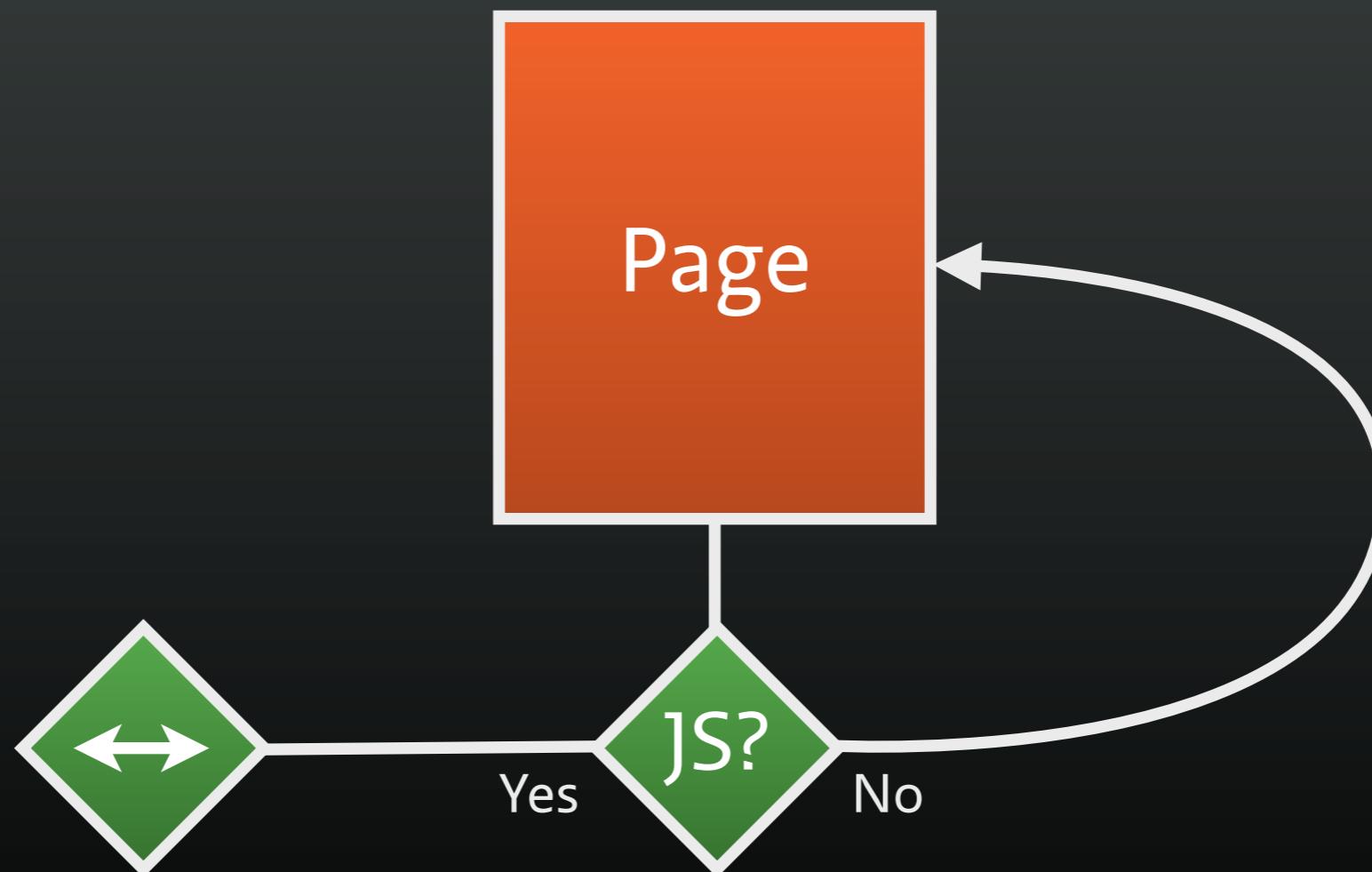
Adaptive widget logic



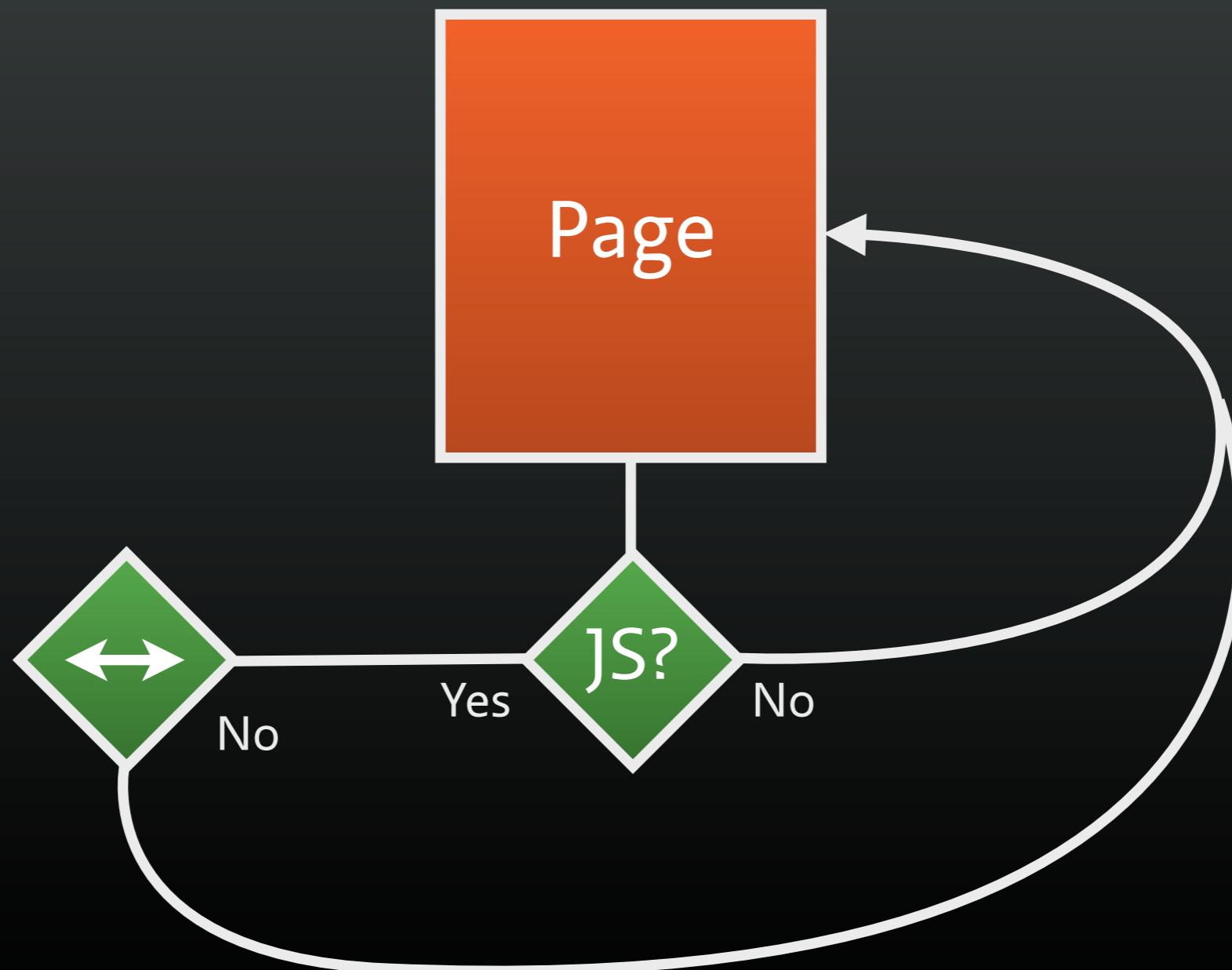
Adaptive widget logic



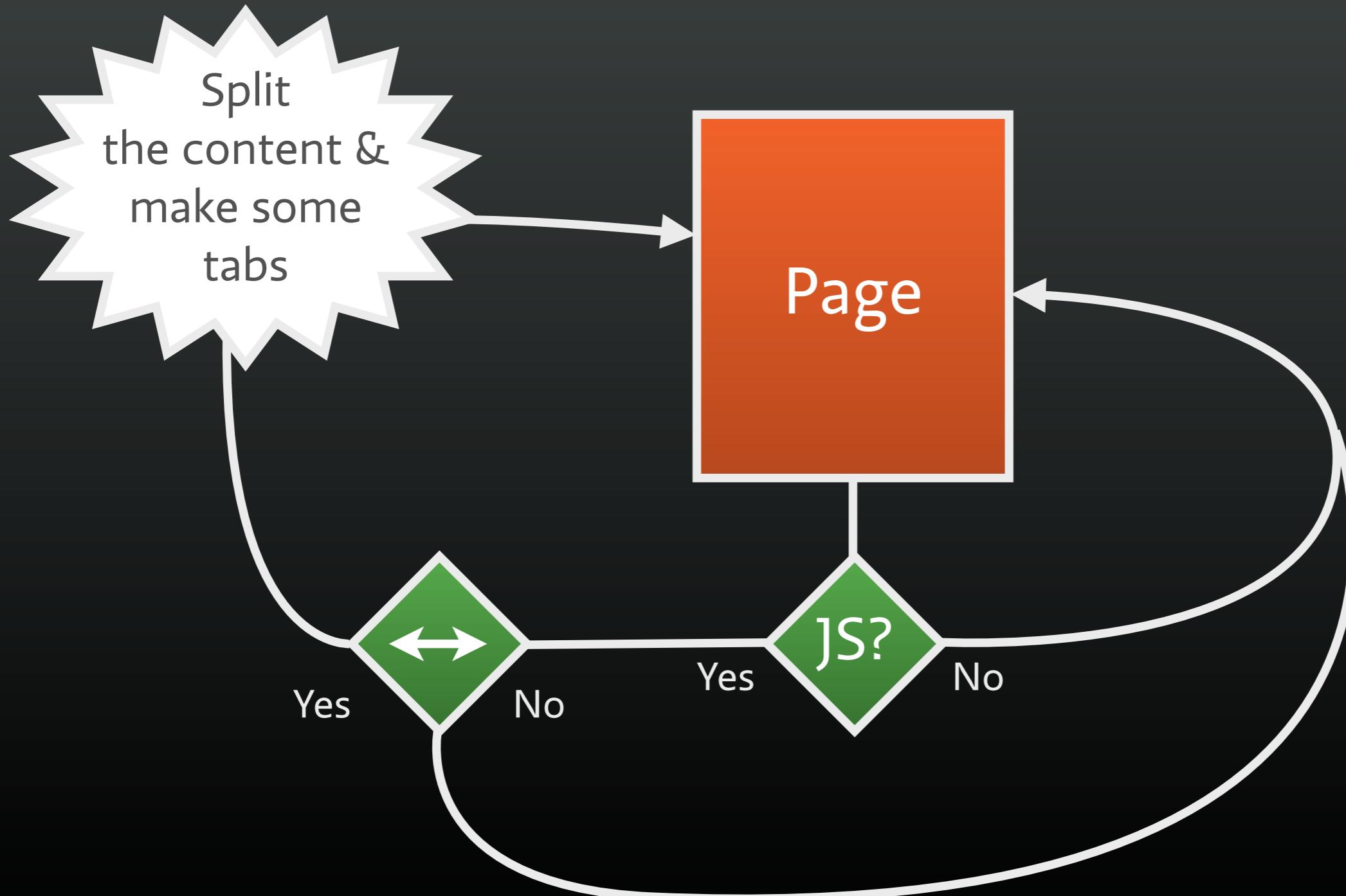
Adaptive widget logic



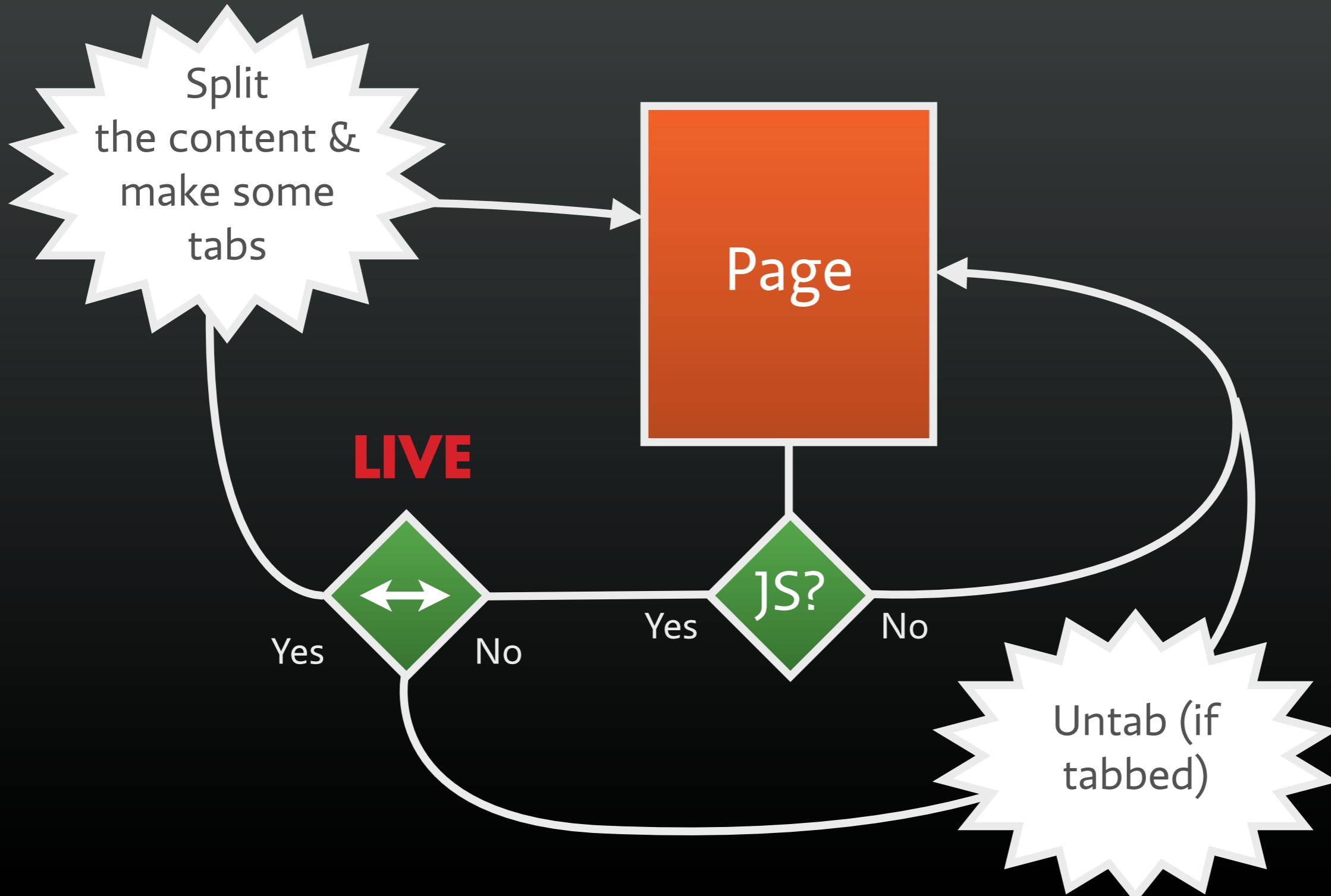
Adaptive widget logic



Adaptive widget logic



Adaptive widget logic



Adding ARIA

role="tablist"

Pumpkin Pie

OVERVIEW INGREDIENTS DIRECTIONS NUTRITION

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

Prep Time: 10min
Cook Time: 1hr
Ready In: 1hr 10min



Adding ARIA

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!

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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

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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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Cook Time: 1hr
Ready In: 1hr 10min



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

Result!

Pumpkin Pie

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