

FALLING IN LOVE WITH FORMS

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Forms suck.

They are incredibly
tedious to create.

They are undeniably
annoying to fill in.

They can be
frustrating to test.

They require logic.

Forms suck.

can
Forms[↖]suck.

don't have to

Forms[^]suck.

can
Forms¹suck₁
a lot less

Forms can be...
easy to build
predictable
effortless to use
and **accessible**

It's all in how you
look at them.

HELPFUL HINT

Break large,
complex forms into
smaller, simpler,
reusable patterns

How about a
common example?
Let's look
at a contact form.

Contact Us

If you have something on your mind, share it with us here.

ALL FIELDS ARE REQUIRED

Your Name

Your Email

We will only use your email address to respond to your message.

Purpose of Your Message

Your Message

SEND MY MESSAGE

Contact Us

If you have something on your mind, share it with us here.

ALL FIELDS ARE REQUIRED

Your Name

Your Email

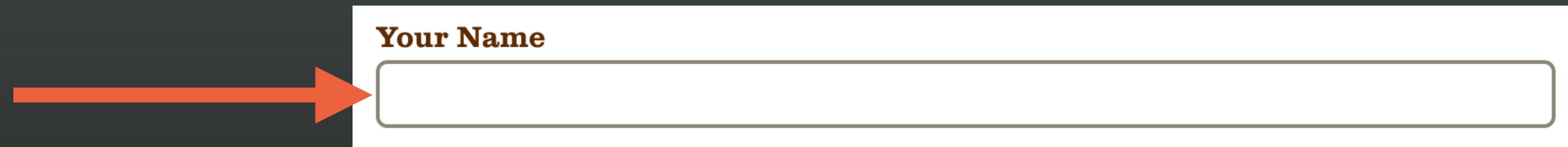
We will only use your email address to respond to your message.

Purpose of Your Message

Your Message

SEND MY MESSAGE

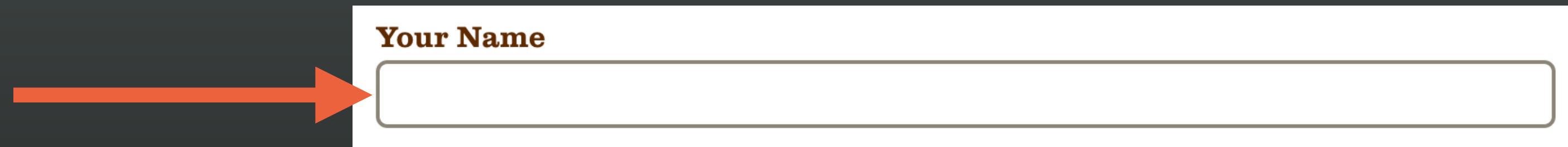
Pattern 1: Label & Field



Your Name

```
<input type="text" name="full_name">
```

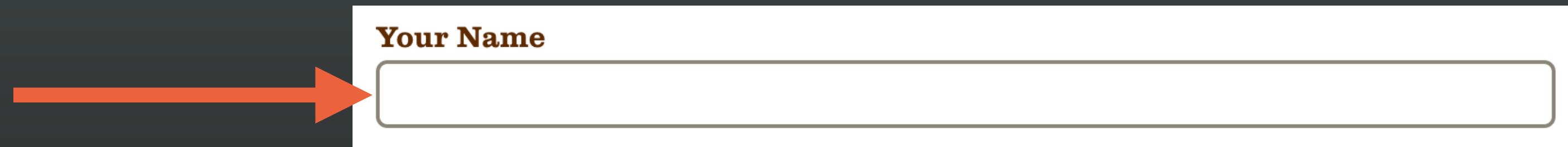
Pattern 1: Label & Field



Your Name

```
<input name="full_name">
```

Pattern 1: Label & Field



Your Name

```
<input name="full_name"/>
```

Pattern 1: Label & Field

The diagram illustrates a simple form pattern. It consists of a white rectangular box containing a label "Your Name" in bold black font above a horizontal text input field. An orange arrow points from the left towards the label.

Your Name

```
<input name="full_name">
```

Pattern 1: Label & Field

A diagram illustrating a form pattern. It consists of a white rectangular box containing a label "Your Name" in bold black font above a horizontal text input field. An orange arrow points from the left towards the label.

```
<label>Your Name</label>
<input name="full_name">
```

Pattern 1: Label & Field

A diagram illustrating a form pattern. It consists of a white rectangular box containing a label "Your Name" in bold black font above a grey-bordered input field. An orange arrow points from the left towards the label.

```
<label for="full_name">Your Name</label>
<input id="full_name" name="full_name">
```

Pattern 1: Label & Field

Your Name

 **ALL FIELDS ARE REQUIRED**

```
<label for="full_name">Your Name</label>
<input id="full_name" name="full_name" required>
```

Pattern 2: Label, Field & Note

Your Email

We will only use your email address to respond to your message.

```
<label for="email">Your Email</label>
<input id="email" name="email" required>
```

We will only use your email address to respond to your message.

Pattern 2: Label, Field & Note

Your Email

We will only use your email address to respond to your message.

```
<label for="email">Your Email</label>
<input id="email" name="email" required>
```

We will only use your email address to respond to your message.

Pattern 2: Label, Field & Note

Your Email

We will only use your email address to respond to your message.

```
<label for="email">Your Email</label>
<input id="email" name="email" required>
```

We will only use your email address to respond to your message.

Pattern 2: Label, Field & Note

Your Email

We will only use your email address to respond to your message.

```
<label for="email">Your Email</label>
<input type="email" id="email" name="email" required>
```

We will only use your email address to respond to your message.

Pattern 2: Label, Field & Note

Carrier ⌘ 3:52 PM webstandardssherpa.com

REQUIRED

Your Name

Your Email

We will only use your email address to respond to your message.

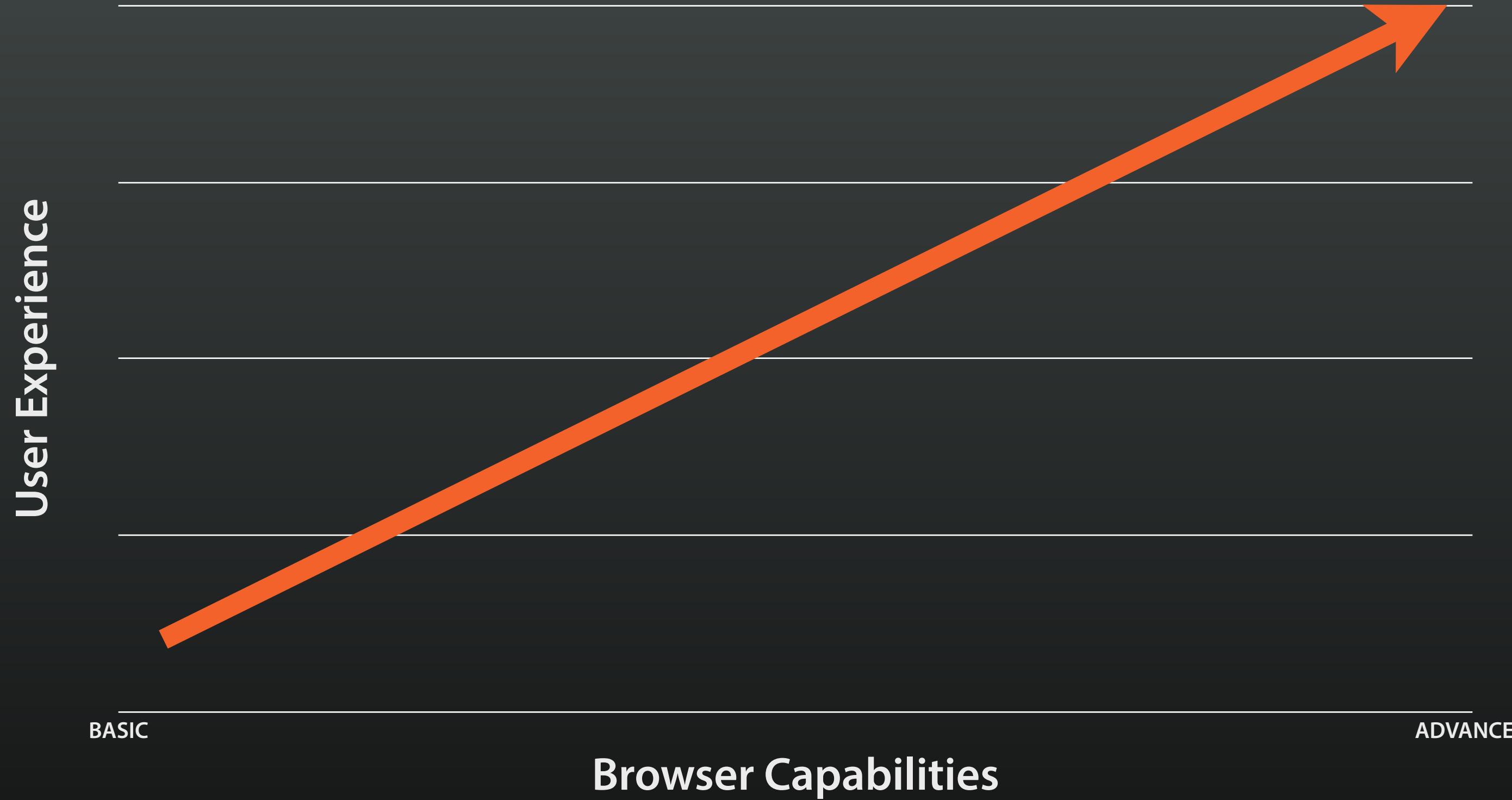
< > Done

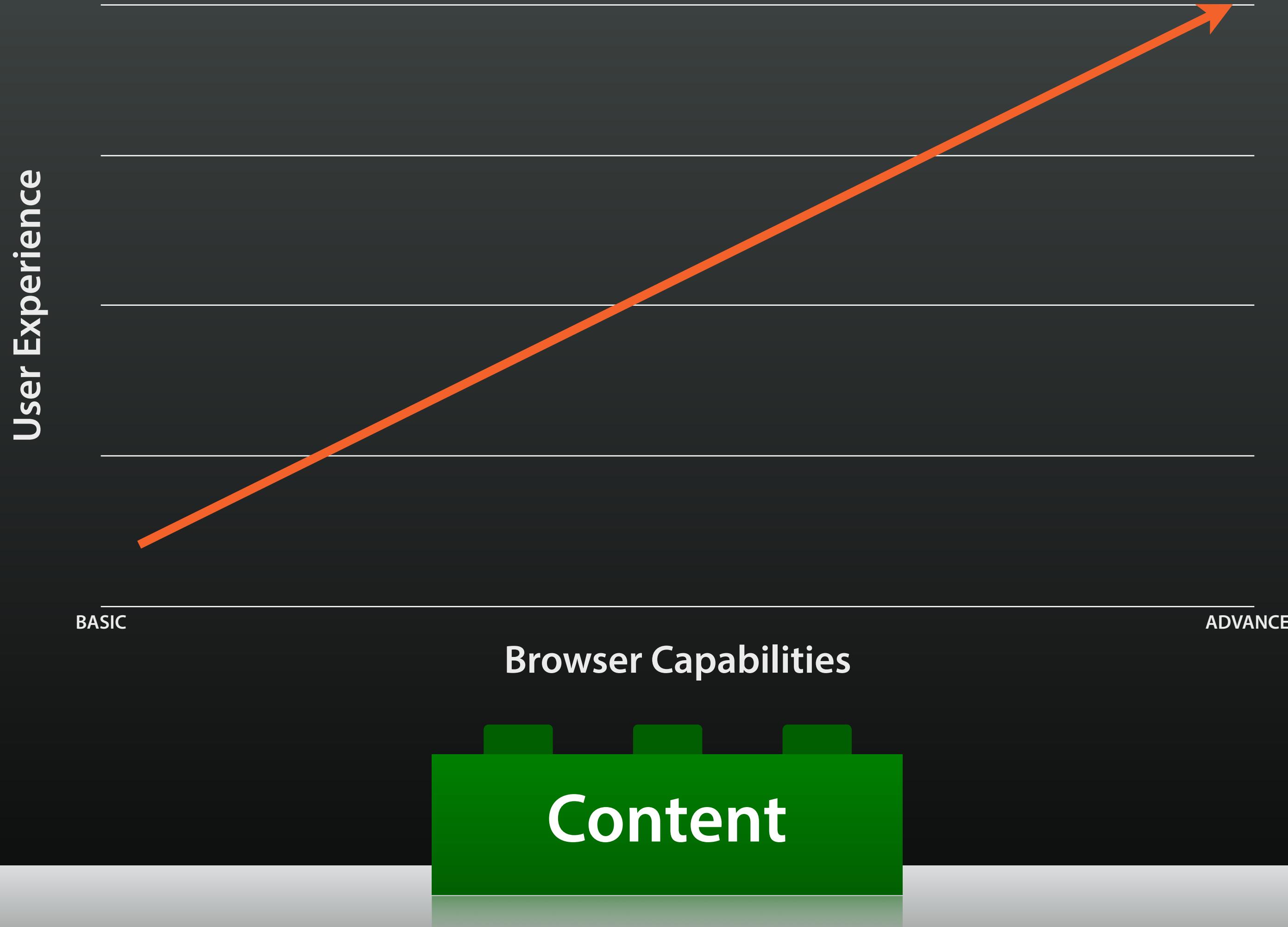
Q W E R T Y U I O P
A S D F G H J K L
Z X C V B N M ↺
_123 space @ . Go

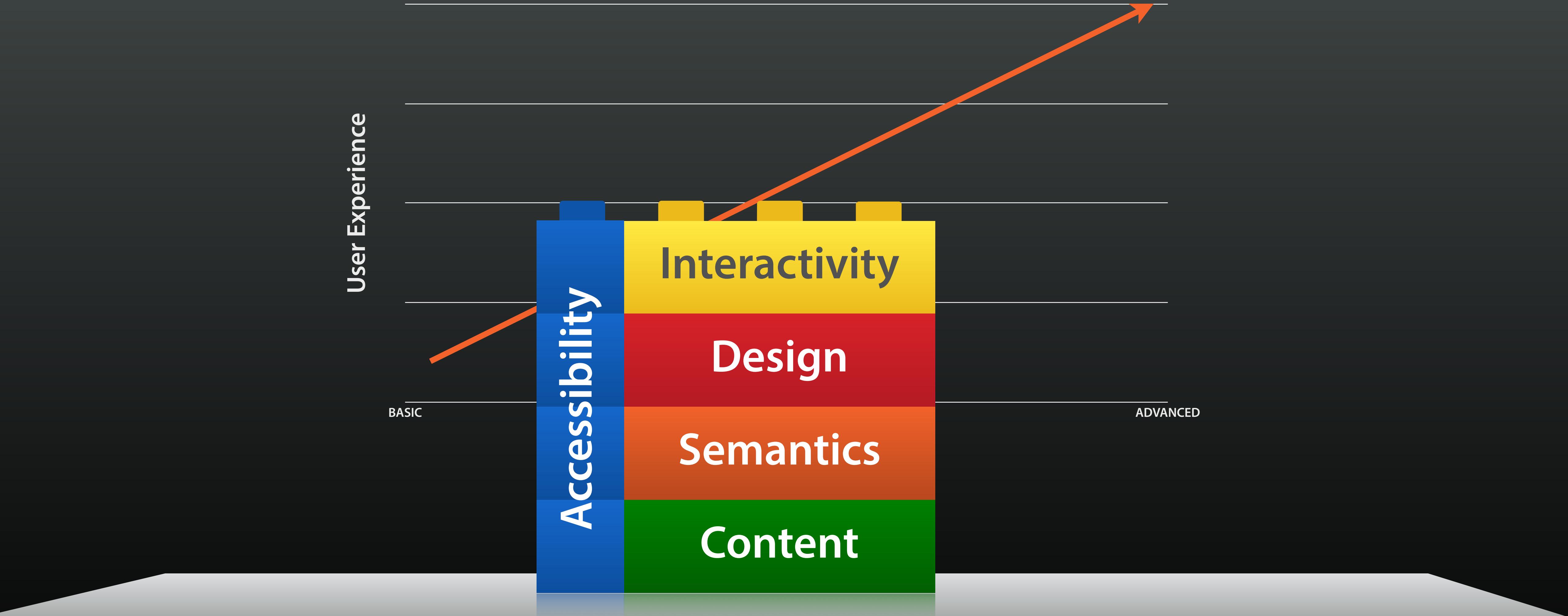
Progressive Enhancement

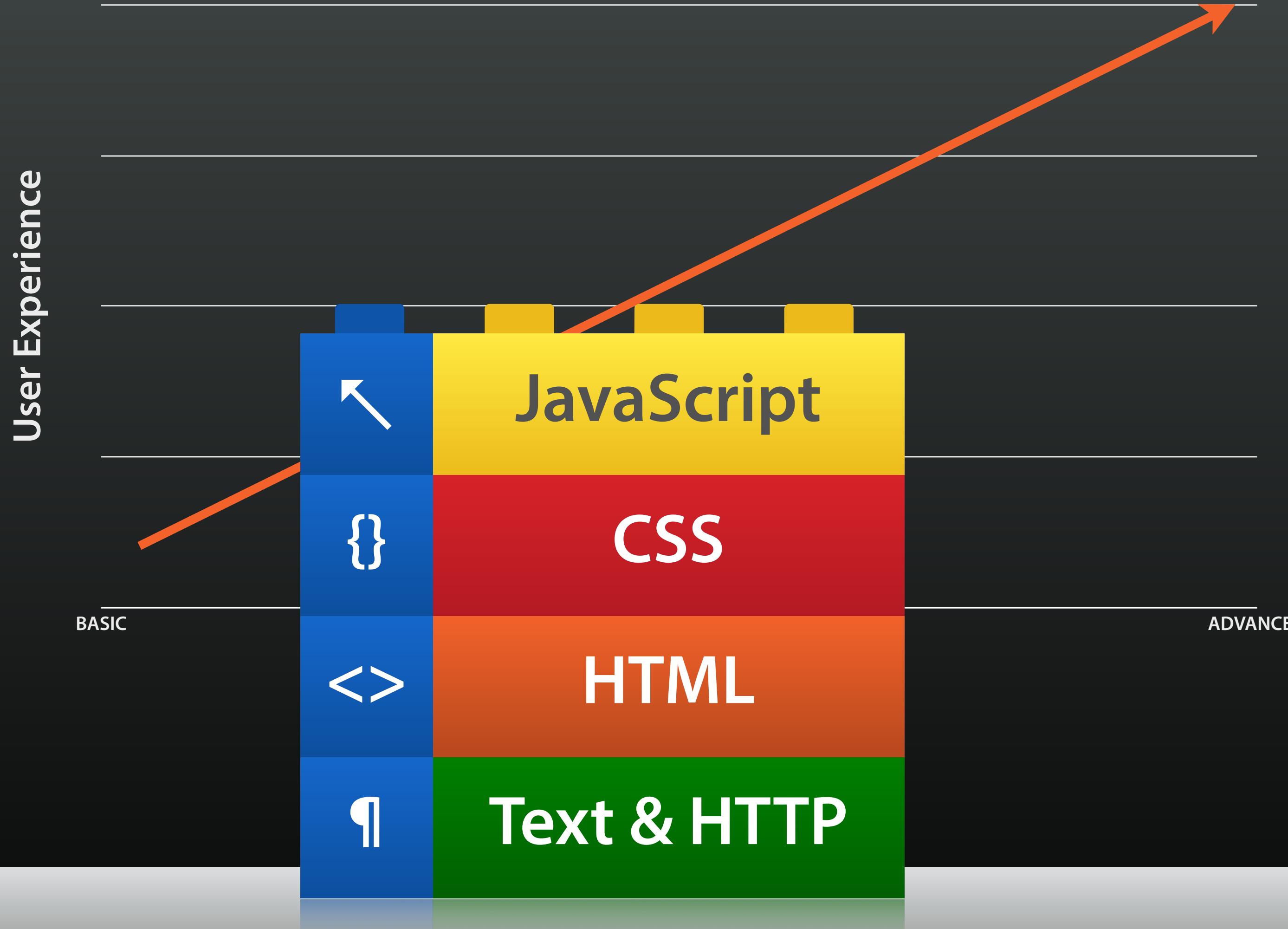


Technological
restrictions











HTML



ARIA

HTML5

HTML4

Browsers ignore
what they don't
understand

Pattern 2: Label, Field & Note

Your Email

We will only use your email address to respond to your message.

```
<label for="email">Your Email</label>
<input type="email" id="email" name="email" required>
<em>
  We will only use your email address to respond to your message.
</em>
```

Pattern 2: Label, Field & Note

Your Email

We will only use your email address to respond to your message.

```
<label for="email">Your Email</label>
<input type="email" id="email" name="email" required>
<em class="note">
  We will only use your email address to respond to your message.
</em>
```

Pattern 2: Label, Field & Note

Your Email

We will only use your email address to respond to your message.

```
<label for="email">Your Email</label>
<input type="email" id="email" name="email" required
       aria-describedby="email-note">
<em class="note" id="email-note">
  We will only use your email address to respond to your message.
</em>
```

Pattern 2: Label, Field & Note

Your Email

We will only use your email address to respond to your message.

Your Email

We will only use your email address to respond to your message.

Rinse & Repeat

Purpose of Your Message

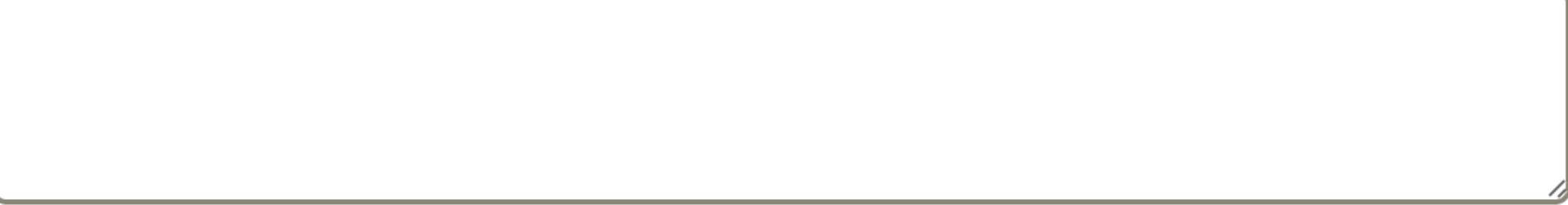
Question/Comment



```
<label for="subject">Purpose of Your Message</label>
<select id="subject" name="subject">
  <option>Question/Comment</option>
  <option>Article Error</option>
  <option>Website Bug Report</option>
  <option>Ask the Sherpas a question</option>
</select>
```

Rinse & Repeat

Your Message



```
<label for="message">Your Message</label>
<textarea id="message" name="message"></textarea>
```

Buttons

SEND MY MESSAGE

```
<input type="submit" value="Send My Message">
```

Buttons

SEND MY MESSAGE

```
<button type="submit">Send My Message</button>
```

HELPFUL HINT

A button element
can contain pretty
much **anything**
(within reason)

Buttons

Please choose a plan from the following

Basic Plan

You get 20GB of storage and a single domain name for

\$2.99/mo

Pro Plan

You get 100GB of storage and a single domain name for

\$12.99/mo

Guru Plan

You get 500GB of storage and a unlimited domain names for

\$22.99/mo

```
<button type="submit" value="basic">
  <h3>Basic Plan</h3>
  <p>You get 20 <abbr title="gigabytes">GB</abbr> of storage
    and a single domain name for <strong>$2.99
      <abbr title="per month">/mo</abbr></strong></p>
</button>
```

That new email field
looks cool, can we
see more of that
fancy HTML5 stuff?

Requesting URLs

URL

Please provide the URL for the specific page that includes the area you want reviewed

```
<label for="url">URL</label>
<input type="url" id="url" name="url" required
       aria-describedby="url-note"
       >
<em class="note" id="url-note">
  Please provide the URL for the specific page that includes the area
  you want reviewed.
</em>
```

Requesting URLs

Carrier 12:42 PM local.webstandardssherpa.com

Your Email

URL

Please provide the URL for the specific page that includes the area you want reviewed

What aspect of your page do you want reviewed?

< > Done

Q W E R T Y U I O P

A S D F G H J K L

Z X C V B N M

@123 . / .com Go

Please provide the URL for the specific page that includes the area you want reviewed.

```
<label for="url">URL</label>
<input type="url" id="url" aria-describedby="url-note" />
<em class="note" id="url-note">Please provide the URL for the specific page that includes the area you want reviewed.</em>
```

Requesting URLs

URL

Please provide the URL for the specific page that includes the area you want reviewed

```
<label for="url">URL</label>
<input type="url" id="url" name="url" required
       aria-describedby="url-note"
       >
<em class="note" id="url-note">
  Please provide the URL for the specific page that includes the area
  you want reviewed.
</em>
```

Providing hints

```
http://www.yoursite.com/specific-page#anchored-section
```

```
<label for="url">URL</label>
<input type="url" id="url" name="url" required
       aria-describedby="url-note"
       placeholder="http://www.yoursite.com/specific-page#anchored-section"
       >
<em class="note" id="url-note">
    Please provide the URL for the specific page that includes the area
    you want reviewed.
</em>
```

HELPFUL HINT

Placeholders are just
that: placeholders
for actual content.
They are **not labels!**

Providing hints

URL

Please provide the URL for the specific page that includes the area you want reviewed

```
<label for="url">URL</label>
<input type="url" id="url" name="url" required
       aria-describedby="url-note"
       placeholder="http://www.yoursite.com/specific-page#anchored-section"
       >
<em class="note" id="url-note">
  Please provide the URL for the specific page that includes the area
  you want reviewed.
</em>
```

Providing hints

URL

`http://www.yoursite.com/specific-page#anchored-section`

Please provide the URL for the specific page that includes the area you want reviewed

URL

`http://www.yoursite.com/specific-page#anchored-section`

Please provide the URL for the specific page that includes the area you want reviewed

```
<em class="note" id="url-note">  
  Please provide the URL for the specific page that includes the area  
  you want reviewed.  
</em>
```

Requesting phone numbers

Preferred Phone

ex. 123-456-7890

```
<label for="preferred_phone">Preferred Phone</label>
<input type="tel" id="preferred_phone" name="preferred_phone"
placeholder="ex. 123-456-7890"
>
```

Requesting phone numbers

```
<label for="preferred_phone">  
<input type="tel" id="preferred_phone" placeholder="ex. 123-456-7890" />
```

Carrier 1:47 PM local.gps.nichols.edu

Email Address*

ex. example@somedomain.com

Preferred Phone

ex. 123-456-7890

Mailing Address*

City*

< > Done

1	2 ABC	3 DEF
4 GHI	5 JKL	6 MNO
7 PQRS	8 TUV	9 WXYZ
+ * #	0	✖

Requesting numbers

What is 1 + 1?

```
<label for="test">What is 1 + 1?</label>
<input id="test" type="number" name="test">
```

Requesting numbers

What is $1 + 1$?

What is $1 + 1$?

<

<

Requesting numbers

What is 1 + 1?

```
<label for="test">What is 1 + 1?</label>
<input id="test" type="number" name="test"
       pattern="[0-9]*>
<!-- Note: pattern ensures Safari Mobile gives a keypad -->
```

Requesting numbers

How Loud is Spinal Tap?



```
<label for="volume">How Loud is Spinal Tap?</label>
<input id="volume" type="range" name="volume"
      min="0" max="11" step="1"
      >
```

Requesting numbers

What is 1 + 1?

```
<label for="test">What is 1 + 1?</label>
<input id="test" type="number" name="test"
       pattern="[0-9]*" 
       min="0" max="9"
       >
```

Requesting dates & times

Preferred Date to Visit*

```
<label for="preferred_dates">Preferred Date to Visit</label>
<input id="preferred_dates" type="date" name="preferred_dates"
       required
     >
```

Requesting dates & times

Preferred Date to Visit*

mm / dd / yyyy

September 2014 ▾

Sun	Mon	Tue	Wed	Thu	Fri	Sat
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	1	2	3	4

—Friday at 9:30am, 11:00am,

Requesting dates & times

```
<label for="preferred_date">  
<input id="preferred_date" type="text" value="mm / dd / yyyy" required>  
>
```

Carrier 2:18 PM local.nichols.edu

Preferred Date
mm / dd / yyyy

Preferred Date to Visit*
The best time to visit campus is Monday–Friday from early September through early May when classes are in session.

Sep 4, 2014 ▾

Tour Time Requested
Tours are offered Monday–Friday at 9:30am.

< > Clear Done

Month	Day	Year
June	1	2010
July	2	2011
August	3	2012
September	4	2013
October	5	2014
November	6	2015
December	7	2016

```
visit</label>  
<input id="REFERRED_DATES" type="text" value="REFERRED_DATES" required>
```

Requesting dates & times

Preferred Date to Visit*

0 ▾

```
<label for="preferred_dates">Preferred Date to Visit</label>
<input id="preferred_dates" type="date" name="preferred_dates"
       required
       min="2014-09-10" max="2014-12-19"
       >
```

Requesting dates & times

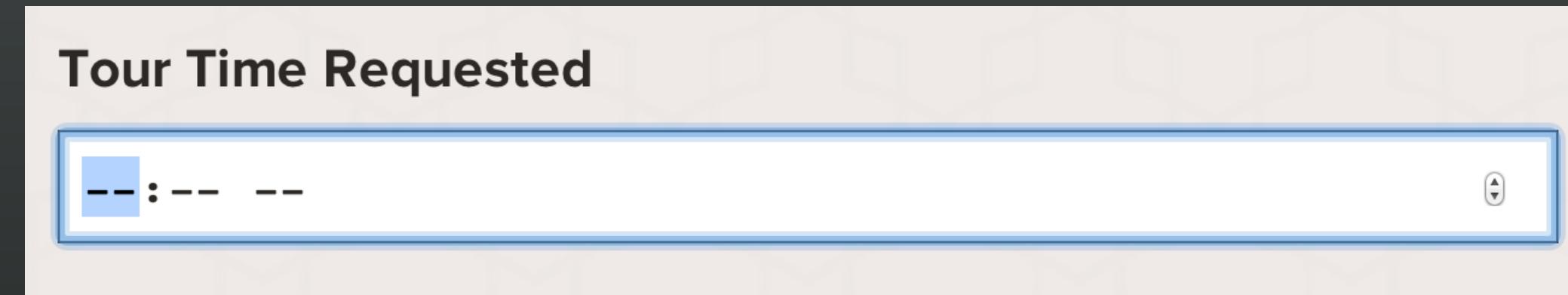
12 / 14 / 2014 🕒 ▼

December 2014 ▾

Sun	Mon	Tue	Wed	Thu	Fri	Sat
30	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3

–Friday at 9:30am, 11:00am,

Requesting dates & times



```
<label for="requested_tour_time">Tour Time Requested</label>
<input id="preferred_dates" type="time" name="preferred_dates">
```

Requesting dates & times

Carrier 2:18 PM local.nichols.edu

Tour Time Requested

Tours are offered Monday–Friday at 9:30am, 11:00am, 1:30pm, and 3:00pm.

9:30 AM

SUBMIT FORM

< > Clear Done

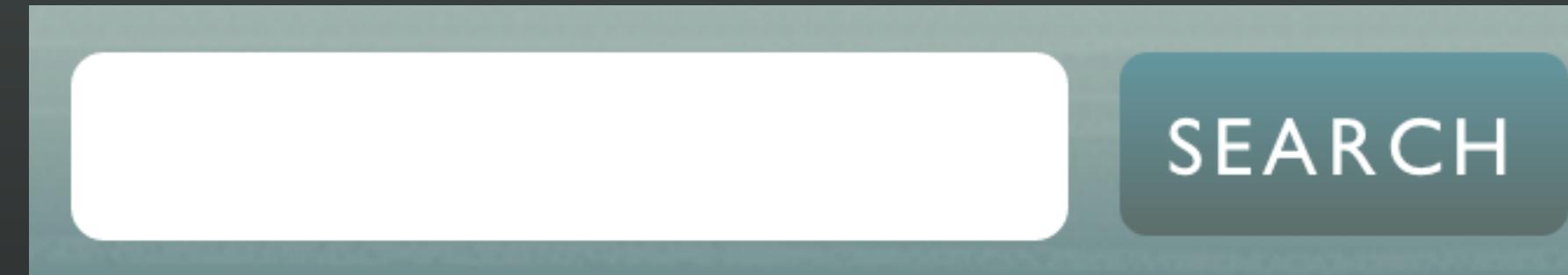
6	27
7	28
8	29
9	30 AM
10	31 PM
11	32
12	33

```
<label for="requested_tour_time">Tour Time Requested</label>
<input id="preferred_date" type="date" value="2014-09-04T09:30:00" />
<input id="preferred_time" type="time" value="09:30:00" />
<input type="submit" value="Submit Form" />
```

Other fun date-related types

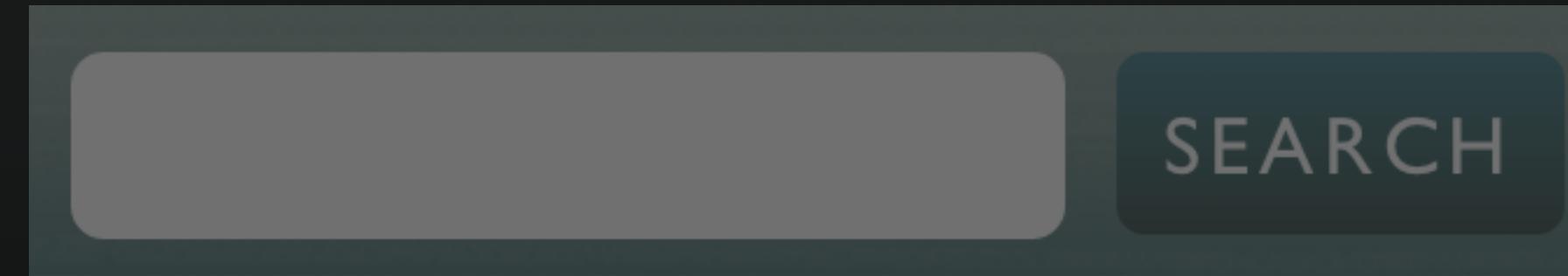
- month
- week
- datetime
- datetime-local

Facilitating search

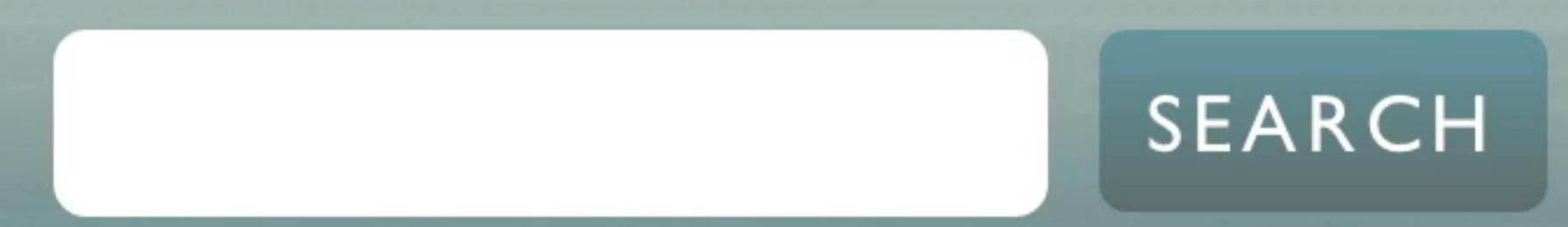


```
<label for="query">Looking for something?</label>
<input type="search" name="keywords" id="query" value="test">
<button type="submit">Search</button>
```

Facilitating search



```
<label for="query">Looking for something?</label>
<input type="text" id="query">
<button type="button" value="SEARCH">SEARCH</button>
```



Mentalism

State

```
<label for="state">State</label>
<input id="state" name="state" list="states">
<datalist id="states">
  <option>Alabama</option>
  <option>Alaska</option>
  <option>Arizona</option>
  <option>Arkansas</option>
  <!-- options continue -->
</datalist>
```

Mentalism

State

State

```
<input type="text" value="Type something...">
<!-- options continue -->
</datalist>
```

Mentalism

State

```
<label for="state">State</label>
<input id="state" name="state" list="states">
<datalist id="states">
  <option value="AL">Alabama</option>
  <option value="AK">Alaska</option>
  <option value="AZ">Arizona</option>
  <option value="AR">Arkansas</option>
  <!-- options continue -->
</datalist>
```

Mentalism

State

State

- AL Alabama
- AK Alaska
- AZ Arizona
- AR Arkansas

... options continue ...

```
</datalist>
```

Mentalism: smart fallbacks

```
<label for="state" id="state_label">State</label>
<datalist id="states">

    <select name="state" aria-labelledby="state_label">
        <option>Alabama</option>
        <option>Alaska</option>
        <option>Arizona</option>
        <option>Arkansas</option>
        <!-- options continue -->
    </select>

    If other, please specify

</datalist>
<input id="state" name="state" list="states">
```

Mentalism: smart fallbacks

```
<label for="state" id="state_label">State</label>
<datalist id="states">
```

State

Alabama



If other, please specify

```
</datalist>
<input id="state" name="state" list="states">
```

Mentalism: smart fallbacks

```
<label for="state" id="state_label">State</label>
<datalist id="states">

  <select name="state" aria-labelledby="state_label">
    <option>Alabama</option>
    <option>Alaska</option>
    <option>Arizona</option>
    <option>Arkansas</option>
    <!-- options continue -->
  </select>

  If other, please specify

</datalist>
<input id="state" name="state" list="states">
```

Mentalism: smart fallbacks

```
<label for="state" id="state_label">State</label>
<datalist id="states">

  <select name="state" aria-labelledby="state_label">
    <option>Alabama</option>
    <option>Alaska</option>
    <option>Arizona</option>
    <option>Arkansas</option>
    <!-- options continue -->
  </select>

  If other, please specify

</datalist>
<input id="state" name="state" list="states">
```

Ok, I get it: forms in
HTML5 are awesome.
But how should we
organize our forms?

Do we divide it up?

Your Name

```
<div>
  <label for="full_name">Your Name</label>
  <input id="full_name" name="full_name" required>
</div>
```

Do paragraphs make sense?

Your Name

```
<p>
  <label for="full_name">Your Name</label>
  <input id="full_name" name="full_name" required>
</p>
```

Is it a list of questions?

Your Name

```
<ol>
  <li>
    <label for="full_name">Your Name</label>
    <input id="full_name" name="full_name" required>
  </li>
</ol>
```

Is it a list of questions?

Your Name

```
form ol,  
form ul {  
    list-style: none;  
    margin: 0;  
    padding: 0;  
}
```

Control Group Classification

Your Name

```
<li class="text">
  <label for="full_name">Your Name</label>
  <input id="full_name" name="full_name" required>
</li>
```

Control Group Classification

Your Name

```
<li class="form-control form-control--text">
  <label for="full_name">Your Name</label>
  <input id="full_name" name="full_name" required>
</li>
```

Control Group Classification

Your Name

```
<li class="text">
  <label for="full_name">Your Name</label>
  <input id="full_name" name="full_name" required>
</li>
```

Control Group Classification

Your Email

We will only use your email address to respond to your message.

```
<li class="email">
  <label for="email">Your Email</label>
  <input type="email" id="email" name="email" required
         aria-describedby="email-note">
  <em class="note" id="email-note">
    We will only use your email address to respond
    to your message.
  </em>
</li>
```

Control Group Classification

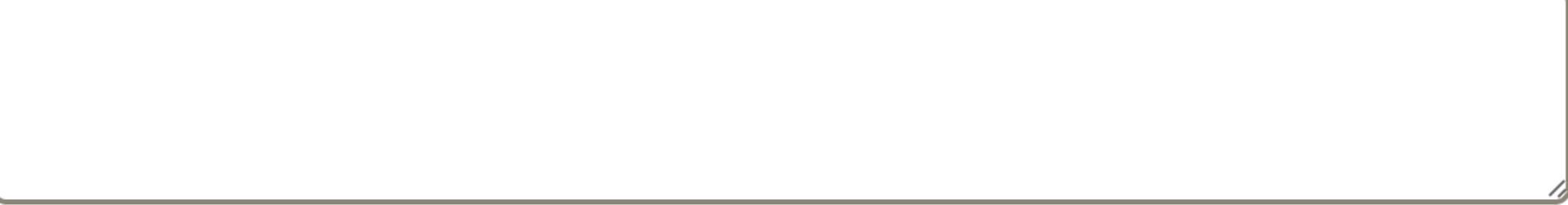
Purpose of Your Message

Question/Comment

```
<li class="select">
  <label for="subject">Purpose of Your Message</label>
  <select id="subject" name="subject">
    <option>Question/Comment</option>
    <option>Article Error</option>
    <option>Website Bug Report</option>
    <option>Ask the Sherpas a question</option>
  </select>
</li>
```

Control Group Classification

Your Message



```
<li class="textarea">
  <label for="message">Your Message</label>
  <textarea id="message" name="message"></textarea>
</li>
```

Control Group Classification

SEND MY MESSAGE

```
<li class="buttons">
  <button type="submit">Send My Message</button>
</li>
```

Makes sense.
What about more
complex form
constructs?

Pattern 3: Confirmations

I agree to the [Terms of Use](#)

```
<input type="checkbox" name="accept_terms" value="yes">  
I agree to the <a href="/terms">Terms of Use</a>
```

Pattern 3: Confirmations

I agree to the [Terms of Use](#)

```
<input type="checkbox" name="accept_terms" value="yes"  
      id="terms">  
<label for="terms">  
  I agree to the <a href="/terms">Terms of Use</a>  
</label>
```

Pattern 3: Confirmations

I agree to the [Terms of Use](#)

```
<label>
  <input type="checkbox" name="accept_terms" value="yes">
  I agree to the <a href="/terms">Terms of Use</a>
</label>
```

Pattern 3: Confirmations

I agree to the [Terms of Use](#)

```
input {  
  /* Styles for most normal input types */  
}  
  
label input {  
  /* Styles for checkbox and radio controls */  
}
```

Pattern 3: Confirmations

I agree to the [Terms of Use](#)

```
<label for="terms">
  <input type="checkbox" name="accept_terms" value="yes"
    id="terms">
    I agree to the <a href="/terms">Terms of Use</a>
</label>
```

Pattern 3: Confirmations

I agree to the [Terms of Use](#)

```
<li class="confirm">
  <label for="terms">
    <input type="checkbox" name="accept_terms" value="yes"
      id="terms">
    I agree to the <a href="/terms">Terms of Use</a>
  </label>
</li>
```

Pattern 4: Multiple Choice

Tablets (8 available)

- Asus Nexus 7
- BlackBerry Playbook
- Dell Streak 7
- Microsoft Surface RT
- Barnes & Noble Nook Color
- Datawind UbiSlate 7cz
- Kindle Fire
- Samsung Galaxy Tab 10

Tablets (8 available)

```
<label for="asus-nexus-7">
  <input type="checkbox" name="device[]" id="asus-nexus-7">
  Asus Nexus 7
</label>

<!-- more options -->
```

Pattern 4: Multiple Choice

Tablets (8 available)

- Asus Nexus 7
- BlackBerry Playbook
- Dell Streak 7
- Microsoft Surface RT
- Barnes & Noble Nook Color
- Datawind UbiSlate 7cz
- Kindle Fire
- Samsung Galaxy Tab 10

Tablets (8 available)

```
<ul>
  <li><!-- Asus Nexus 7 --></li>
  <!-- more options -->
</ul>
```

Pattern 4: Multiple Choice

Tablets (8 available)

- Asus Nexus 7
- BlackBerry Playbook
- Dell Streak 7
- Microsoft Surface RT
- Barnes & Noble Nook Color
- Datawind UbiSlate 7cz
- Kindle Fire
- Samsung Galaxy Tab 10

```
<fieldset>
  <legend>Tablets (8 available)</legend>
  <ul>
    <li><!-- Asus Nexus 7 --></li>
    <!-- more options -->
  </ul>
</fieldset>
```

Pattern 4: Multiple Choice

Tablets (8 available)

- Asus Nexus 7
- BlackBerry Playbook
- Dell Streak 7
- Microsoft Surface RT
- Barnes & Noble Nook Color
- Datawind UbiSlate 7cz
- Kindle Fire
- Samsung Galaxy Tab 10

```
<fieldset>
  <legend>Tablets <em>(8 available)</em></legend>
  <ul>
    <li><!-- Asus Nexus 7 --></li>
    <!-- more options -->
  </ul>
</fieldset>
```

Pattern 4: Multiple Choice

Tablets (8 available)

- Asus Nexus 7
- BlackBerry Playbook

- Barnes & Noble Nook Color
- Datawind UbiSlate 7cz

Tablets (8 available)

- Asus Nexus 7
- BlackBerry Playbook
- Dell Streak 7
- Microsoft Surface RT

- Barnes & Noble Nook Color
- Datawind UbiSlate 7cz
- Kindle Fire
- Samsung Galaxy Tab 10

```
<ul>
  <li><!-- Asus Nexus 7 --></li>
  <!-- more options -->
</ul>
</fieldset>
```

Pattern 4: Multiple Choice

Tablets (8 available)

- Asus Nexus 7
- BlackBerry Playbook
- Dell Streak 7
- Microsoft Surface RT
- Barnes & Noble Nook Color
- Datawind UbiSlate 7cz
- Kindle Fire
- Samsung Galaxy Tab 10

```
<li class="grouped checkboxes">
  <fieldset>
    <legend>Tablets <em>(8 available)</em></legend>
    <ul>
      <li><!-- Asus Nexus 7 --></li>
      <!-- more options -->
    </ul>
  </fieldset>
</li>
```

Pattern 4: Multiple Choice

Tablets (8 available)

- Asus Nexus 7
- BlackBerry Playbook
- Dell Streak 7
- Microsoft Surface RT
- Barnes & Noble Nook Color
- Datawind UbiSlate 7cz
- Kindle Fire
- Samsung Galaxy Tab 10

```
form .grouped ul li {  
  float: left;  
  width: 50%;  
}
```

Pattern 4: Multiple Choice

Tablets (8 available)

- Asus Nexus 7
- BlackBerry Playbook
- Dell Streak 7
- Microsoft Surface RT
- Barnes & Noble Nook Color
- Datawind UbiSlate 7cz
- Kindle Fire
- Samsung Galaxy Tab 10

```
@media only screen and (min-width:30em) {
```

```
form .grouped ul li {  
  float: left;  
  width: 50%;  
}  
}
```

YMQMV

Pattern 5: Related Entry

Requested Day and Time *

Thursday, September 4 10:00 AM

Requested Day and Time

```
<label for="requested_date">Requested Day</label>
<select id="requested_date" name="requested_date" required="">
  <!-- options -->
</select>

<label for="requested_time">Requested Time</label>
<select id="requested_time" name="requested_time" required="">
  <!-- options -->
</select>
```

Pattern 5: Related Entry

Requested Day and Time *

Thursday, September 4 10:00 AM

```
<fieldset>
  <legend>Requested Day and Time</legend>

  <label for="requested_date">Requested Day</label>
  <select id="requested_date" name="requested_date" required=""><!-- options --></select>

  <label for="requested_time">Requested Time</label>
  <select id="requested_time" name="requested_time" required="">
    <!-- options --></select>

</fieldset>
```

Pattern 5: Related Entry

Requested Day and Time *

Thursday, September 4 10:00 AM

```
<li class="grouped date-time-selects">
  <fieldset>
    <legend>Requested Day and Time</legend>

    <label for="requested_date">Requested Day</label>
    <select id="requested_date" name="requested_date"
      required=""><!-- options --></select>

    <!-- continued... -->

  </fieldset>
</li>
```

Pattern 5: Related Entry

Requested Day and Time *

Thursday, September 4 ⏪ 10:00 AM ⏪

```
/* Hide the labels in an accessible way */
form .date-time-selects label {
    position: absolute;
    height: 1px;
    width: 1px;
    overflow: hidden;
    clip: rect(1px 1px 1px 1px); /* IE6 & IE7 */
    clip: rect(1px, 1px, 1px, 1px);
}
```

Pattern 6: Multiple Labels

Select a date

January ↕ 1 ↕ 1990 ↕

```
<li class="grouped year-month-day-selects">
  <fieldset>
    <legend>Select a date</legend>

    <label for="month">Month</label>
    <select name="month" id="month"><!-- options --></select>

    <!-- continued... -->

  </fieldset>
</li>
```

Pattern 6: Multiple Labels

Select a date

January ↕ 1 ↕ 1990 ↕

```
<li class="grouped year-month-day-selects">
  <fieldset>
    <legend>Select a date</legend>

    <label for="month">Month</label>
    <select name="month" id="month"><!-- options --></select>

    <!-- continued... -->

  </fieldset>
</li>
```

Pattern 6: Multiple Labels

Select a date

January ↕ 1 ↕ 1990 ↕

```
<li class="gro
  <fieldset>
    <legend>S
      Select a date
      January    ↕ 1    ↕ 1990    ↕
      <label for="month">Month</label>
      <select name="month" id="month"><!-- options --></select>
      <!-- continued... -->
    </fieldset>
  </li>
```

Pattern 6: Multiple Labels

Select a date

January 1 1990

```
<li class="grouped year-month-day-selects">
  <fieldset>
    <legend id="select_date">Select a date</legend>

    <label for="month" id="month_label">Month</label>
    <select name="month" id="month"
      aria-labelledby="select_date month_label"
      ><!-- options --></select>

    <!-- continued... -->
  </fieldset>
</li>
```

Pattern 6: Multiple Labels

Select a date

January 1 1990

```
<li class="group">
  <fieldset>
    <legend id="date_label">Select a date</legend>
    <label for="month" id="month_label">Month</label>
    <select name="month" id="month"
      aria-labelledby="select_date month_label"
      ><!-- options --></select>

    <!-- continued... -->
  </fieldset>
</li>
```

Pattern 7: The dreaded table

	POOR	FAIR	GOOD	GREAT	EXCELLENT
How would you rate your experience with Foo Bar Title from initial contact to closing?	<input type="radio"/>				

Pattern 7: The dreaded table

```
<table>
  <thead>
    <tr>
      <td></td>
      <th>Poor</th>
      <!-- Headings continue -->
    </tr>
  </thead>
  <tbody>
    <tr>
      <th>How would you rate your experience with Foo Bar Title
          from initial contact to closing?</th>
      <td>
        <input type="radio" name="experience" value="1">
      </td>
      <!-- etc. -->
    </tr>
  </tbody>
</table>
```

Pattern 7: The dreaded table

```
<table>
  <thead>
    <tr>
      <td></td>
      <th>Poor</th>
      <!-- Headings continue -->
    </tr>
  </thead>
  <tbody>
    <tr>
      <th>How would you rate your experience with Foo Bar Title
          from initial contact to closing?</th>
      <td>
        <input type="radio" name="experience" value="1">
      </td>
      <!-- etc. -->
    </tr>
  </tbody>
</table>
```

Pattern 7: The dreaded table

```
<table>
  <thead>
    <tr>
      <td></td>
      <th>Poor</th>
      <!-- Headings continue -->
    </tr>
  </thead>
  <tbody>
    <tr>
      <th>How would you rate your experience with Foo Bar Title
          from initial contact to closing?</th>
      <td>
        <input type="radio" name="experience" value="1">
      </td>
      <!-- etc. -->
    </tr>
  </tbody>
</table>
```

Pattern 7: The dreaded table

```
<table>
  <thead>
    <tr>
      <td></td>
      <th id="value-1">Poor</th>
      <!-- Headings continue -->
    </tr>
  </thead>
  <tbody>
    <tr>
      <th>How would you rate your experience with Foo Bar Title
          from initial contact to closing?</th>
      <td>
        <input ... aria-labelledby="value-1">
      </td>
      <!-- etc. -->
    </tr>
  </tbody>
</table>
```

Pattern 7: The dreaded table

```
<table>
  <thead>
    <tr>
      <td></td>
      <th id="value-1">Poor</th>
      <!-- Headings continue -->
    </tr>
  </thead>
  <tbody>
    <tr>
      <th id="experience">How would you rate your experience
        with Foo Bar Title from initial contact to closing?</th>
      <td>
        <input ... aria-labelledby="experience value-1">
      </td>
      <!-- etc. -->
    </tr>
  </tbody>
</table>
```

Pattern 7: The dreaded table

```
<table>
  <thead>
    <tr>
      <!-- Headings before -->
      <th id="value-3">Good</th>
      <!-- Headings after -->
    </tr>
  </thead>
  <tbody>
    <tr>
      <th id="experience">How would you rate your experience
        with Foo Bar Title from initial contact to closing?</th>
      <!-- values 1 & 2 -->
      <td><input ... aria-labelledby="experience value-3"></td>
      <!-- values 4 & 5 -->
    </tr>
  </tbody>
</table>
```

Pattern 7: The dreaded table

```
<table>
  <thead>
    <tr>
```

POOR FAIR GOOD GREAT EXCELLENT

How would you rate your experience
with Foo Bar Title from initial contact to
closing?

```
    with Foo Bar Title from initial contact to closing.</tr>
    <!-- values 1 & 2 -->
    <td><input ... aria-labelledby="experience value-3"></td>
    <!-- values 4 & 5 -->
  </tr>
</tbody>
</table>
```

HELPFUL HINT

Focus on
making the form
read naturally
and easily.

HELPFUL HINT

You can't always
make an interface
perfect, but you can
make it **usable**.

Ok, I think I'm
getting it, but
small screens still
scare me a little.

Let's touch
on that a little.

(get it?!)

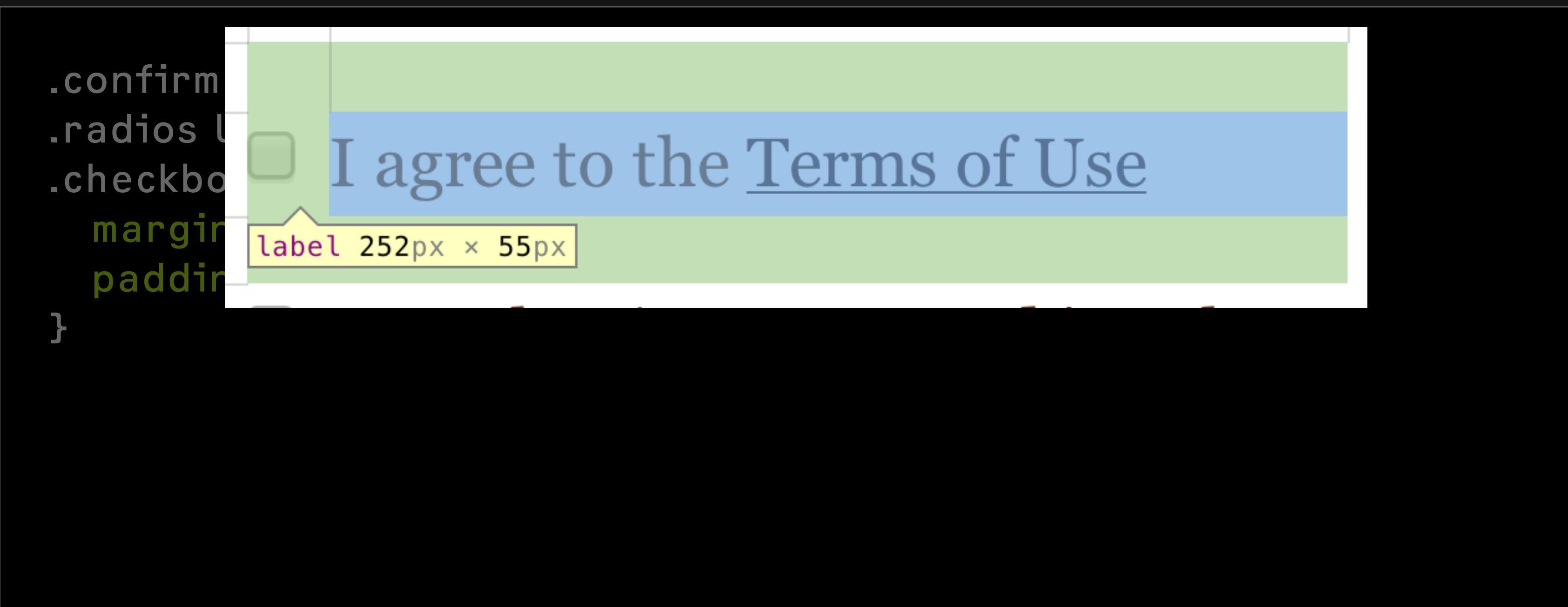
Tap-friendly hit targets

I agree to the [Terms of Use](#)

```
.confirm label,  
.radios label,  
.checkboxes label {  
  margin: -1em 0;  
  padding: 1em 0;  
}
```

Tap-friendly hit targets

I agree to the [Terms of Use](#)



Making old Safari play nice

I agree to the [Terms of Use](#)

```
label {  
  cursor: pointer;  
}
```

No layout before its time

First Name*

Last Name*

Email Address* ex. example@somedomain.com

```
.form-control {  
    clear: both;  
}  
.form-control label,  
.form-control input {  
    float: left;  
    width: 34%;  
}  
.form-control input {  
    width: 63%;  
}
```

No layout before its time

First Name*

Last Name*

Email Address*

```
.form-control label,  
.form-control input {  
    display: block;  
    margin-bottom: .328em;  
}
```

No layout before its time

First Name*

Last Name*

Email Address*

 ex. example@somedomain.com

```
.form-control label,  
.form-control input {  
    display: block;  
    margin-bottom: .328em;  
}  
  
@media only screen and (min-width: 60em) {  
    /* Side by Side layout */  
}
```

First Name*

Last Name*

Email Address*

 ex. example@somedomain.com

YMQMV

No layout before its time

▼ Tablets (8 available)

- Asus Nexus 7
- Barnes & Noble Nook Color
- BlackBerry Playbook
- Datawind UbiSlate 7cz
- Dell Streak 7
- Kindle Fire
- Microsoft Surface RT
- Samsung Galaxy Tab 10

Tablets (8 available)

- Asus Nexus 7
- BlackBerry Playbook
- Dell Streak 7
- Microsoft Surface RT

- Barnes & Noble Nook Color
- Datawind UbiSlate 7cz
- Kindle Fire
- Samsung Galaxy Tab 10

```
@media only screen and (min-width:30em) {
```

```
form .grouped ul li {  
  float: left;  
  width: 50%;  
}  
}
```

YMQMV

Makes sense.
Could we talk a bit
about validation?

Requiring a field

Fields marked with a * are **required**.

First Name*

```
<p>Fields marked with a * are required.</p>

<p>
  <label for="first_name">
    First Name <abbr title="required">*</abbr>
  </label>
  <input id="first_name" name="first_name" required>
</p>
```

Requiring a field

Fields marked with a * are **required**.

First Name*

```
<p>Fields marked with a * are required.</p>

<p>
  <label for="first_name">
    First Name <abbr title="required">*</abbr>
  </label>
  <input id="first_name" name="first_name" required>
</p>
```

Requiring a field

Fields marked with a * are **required**.

First Name*

Fields marked with a * are **required**.

First Name*

```
<p>Fields marked w<br><br><p><label for="first_name"><br><input id="first_name" name="first_name" required></p>
```

Requiring a field

Fields marked with a * are **required**.

First Name*

```
<p>Fields marked with a * are
  <strong id="required">required</strong>.</p>

<p>
  <label for="first_name">
    First Name
    <abbr title="required" aria-labelledby="required">*</abbr>
  </label>
  <input id="first_name" name="first_name" required>
</p>
```

Requiring a field

Fields marked with a * are **required**.

First Name*

Fields marked with a * are **required**.

First Name*

```
<p>Fields marked with a * are required.<br/><strong id="required">*</strong></p>  
  
<p><label for="first_name">First Name<br/><abbr title="required" aria-labelledby="required">*</abbr></label><input id="first_name" name="first_name" required></p>
```

Requiring a field

Fields marked with a * are **required**.

First Name*

```
<p tabindex="0">Fields marked with a * are required.</p>

<p>
  <label for="first_name">
    First Name <abbr title="required">*</abbr>
  </label>
  <input id="first_name" name="first_name" required
        aria-required="true">
</p>
```

Requiring a field

Fields marked with a * are **required**.

First Name*

Fields marked with a * are **required**.

```
<p tabindex="
```

```
<p>
```

```
  <label for="
```

```
    First Name <abbr title="required">*</abbr>
```

```
  </label>
```

```
  <input id="first_name" name="first_name" required
```

```
    aria-required="true">
```

```
</p>
```

HELPFUL HINT

Focus on
making the form
read naturally
and easily.

Native validation

Your Email

We will only use your email address to respond to your message.

```
<label for="email">Your Email</label>
<input type="email" id="email" name="email" required>
```

We will only use your email address to respond to your message.

Non-native format validation

What is 1 + 1?

```
<label for="test">What is 1 + 1?</label>
<input id="test" type="number" name="test"
  pattern="[0-9]*">
```

Non-native format validation

Enter three numbers followed by two letters

e.g. 123ab

```
<label for="test">Enter three numbers  
followed by two letters</label>  
<input id="test" name="test"  
placeholder="e.g. 123ab"  
pattern="\d{3}[a-zA-Z]{2}"  
>
```

Non-native format validation

Enter three numbers followed by two letters

e.g. 123ab

Enter three numbers followed by two letters

e.g. 123ab_x

Custom error messages

Enter three numbers followed by two letters



Please match the requested
format.

Custom error messages

Enter three numbers followed by two letters

e.g. 123ab

```
<label for="test">Enter three numbers  
followed by two letters</label>  
<input id="test" name="test"  
placeholder="e.g. 123ab"  
pattern="\d{3}[a-zA-Z]{2}"  
title="Whoops, that's not right"  
>
```

Custom error messages

Enter three numbers followed by two letters

e.g. 123ab

Enter three numbers followed by two letters

1234444hshshs

! Please match the requested
format.
Whoops, that's not right

```
<label>  
  fol  
<input>  
  
<div> Whoops, that's not right  
>
```

Custom error messages

Enter three numbers followed by two letters

e.g. 123ab

```
var field = document.getElementById('test');
field.setCustomValidity( 'My custom error message' );
```

Custom error messages

Enter three numbers followed by two letters

e.g. 123ab

```
var f  
field
```

Enter three numbers followed by two letters

1234444hshshs|

! My custom message



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aarongustafson



easy-designs / jquery.easy-validation.js

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A simple polyfill for HTML5 based validation — Edit

9 commits

1 branch

0 releases

2 contributors



branch: master

jquery.easy-validation.js / +



Added compressed version



aarongustafson authored on Sep 13, 2013

latest commit b94de132ea



Added compressed version

a year ago



Implementing the automatic validation

a year ago



README.md A few minor tweaks to spacing and scrolling

2 years ago



README.md

jquery.easy-validation.js

A simple polyfill for HTML5 based validation

Code

Issues 0

Pull Requests 0

Wiki

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Graphs

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github.com/easy-designs/jquery.easy-validation.js

A dead simple
polyfill for HTML5
forms & custom
validation messages.

Custom error messages

Enter three numbers followed by two letters

e.g. 123ab

```
<label for="test">Enter three numbers  
followed by two letters</label>  
<input id="test" name="test"  
placeholder="e.g. 123ab"  
pattern="\d{3}[a-zA-Z]{2}"  
data-validation-error-empty="You forgot to enter text here"  
data-validation-error-invalid="Whoops, that's not right"  
>
```

Custom error messages

Enter three numbers followed by two letters

e.g. 123ab

```
<form ...  
    data-validation-error-empty="You forgot to enter text here"  
    data-validation-error-invalid="Whoops, that's not right"  
>  
  
<label for="test">Enter three numbers followed by two letters  
    </label>  
<input id="test" name="test" placeholder="e.g. 123ab"  
        pattern="\d{3}[a-zA-Z]{2}"  
        data-validation-error-invalid="Why not try 111aa?"  
>  
  
</form>
```

HELPFUL HINT

Don't forget about
server-side
validation either.

Provide a list of errors

Contact Us

There were errors with your form submission:

- Message is a required field
- Name is a required field
- Email is a required field

The image shows a contact form with the following elements:

- A red error message box containing the text: "There were errors with your form submission:" followed by a bulleted list of validation errors.
- A text input field labeled "Message*" with a red background, indicating it is a required field.
- A text input field labeled "Name*" with a red background, indicating it is a required field.
- A button labeled "Send Postcard Now".

Provide a list of errors

There were errors with your form submission:

- Message is a required field
- Name is a required field
- Email is a required field

```
<div role="alert">
  <p>There were errors with your form submission:</p>
  <ol>
    <li><a href="#message">Message</a> is a required field</li>
    <li><a href="#name">Name</a> is a required field</li>
    <li><a href="#email">Email</a> is a required field</li>
  </ol>
</div>
```

Provide a list of errors

There were errors with your form submission:

- Message is a required field
- Name is a required field

There were errors with your form submission:

- Message is a required field
- Name is a required field
- Email is a required field

```
<li><a href="#message">Message</a> is a required field</li>
<li><a href="#name">Name</a> is a required field</li>
<li><a href="#email">Email</a> is a required field</li>
</ol>
</div>
```

Provide easy access to them

There were errors with your form submission:

- [Message](#) is a required field
- [Name](#) is a required field
- [Email](#) is a required field

```
<div role="alert">
  <p>There were errors with your form submission:</p>
  <ol>
    <li><a href="#message">Message</a> is a required field</li>
    <li><a href="#name">Name</a> is a required field</li>
    <li><a href="#email">Email</a> is a required field</li>
  </ol>
</div>
```

Provide easy access to them

There were errors with your form submission:

- Message is a required field
- Name is a required field
- Email is a required field

```
<label for="message">  
  Message <abbr title="required">*</abbr>  
</label>  
<textarea id="message" name="message" required></textarea>
```

Provide field-level help

x Email *

Your email address is required

```
<li class="text validation-error">
  <label for="email">Email <abbr title="required">*</abbr>
  </label>
  <input id="email" type="email" name="email"
    required="" aria-required="true"
    aria-invalid="true"
    aria-describedby="email-error"
    >
  <strong id="email-error" class="validation-error-message">
    Your email address is required</strong>
</li>
```

Provide field-level help

x Email *

Your email address is required

```
li.validation-error {  
  color: #922026;  
}  
  
li.validation-error input,  
li.validation-error textarea,  
li.validation-error select {  
  border-color: #922026;  
}
```

Provide field-level help

x Email *

Your email address is required

```
.validation-error label::before {  
  content: "x ";  
  font-family: Verdana, sans-serif;  
  speak: none; /* The future! */  
}
```

Provide field-level help

x Email *

Your email address is required

```
.validation-error {  
  content: "x "  
  font-family: sans-serif;  
  speak: none;  
}
```

x Email *

Your email address is required

Forms suck.

can
Forms[↖]suck_↖
a lot less

Forms can be...
easy to build
predictable
effortless to use
and **accessible**

Thank you!

@AaronGustafson

aaron-gustafson.com

slideshare.net/AaronGustafson



easy designs