

# 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.**

*can*  
Forms<sup>↖</sup>suck.

*don't have to*

Forms<sup>^</sup>suck.

*can*  
Forms<sup>↖</sup>suck<sub>↖</sub>  
*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

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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**

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

**Purpose of Your Message**

 Question/Comment

**Your Message**

**SEND MY MESSAGE**

# Pattern 1: Label & Field

Your Name



Your Name

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

# Pattern 1: Label & Field

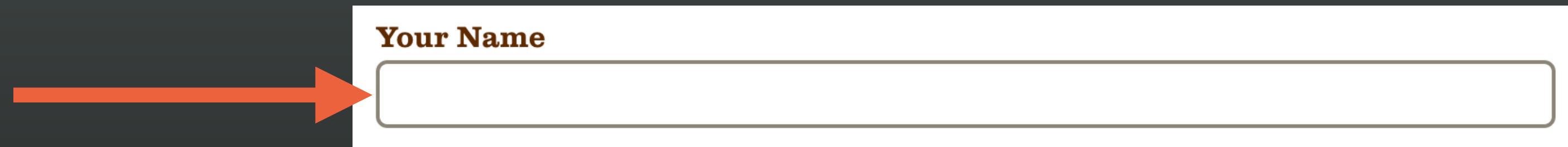
Your Name



Your Name

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

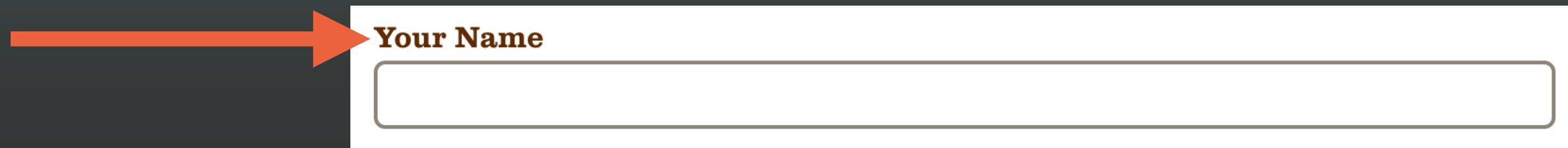
# Pattern 1: Label & Field



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.

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 grey-bordered 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

Browsers ignore  
what they don't  
understand

# Progressive Enhancement

# 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.*

</em>

Screen Reader: Chrome Vox

# 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**

`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\*

Preferred Phone

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\*

▼

```
<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

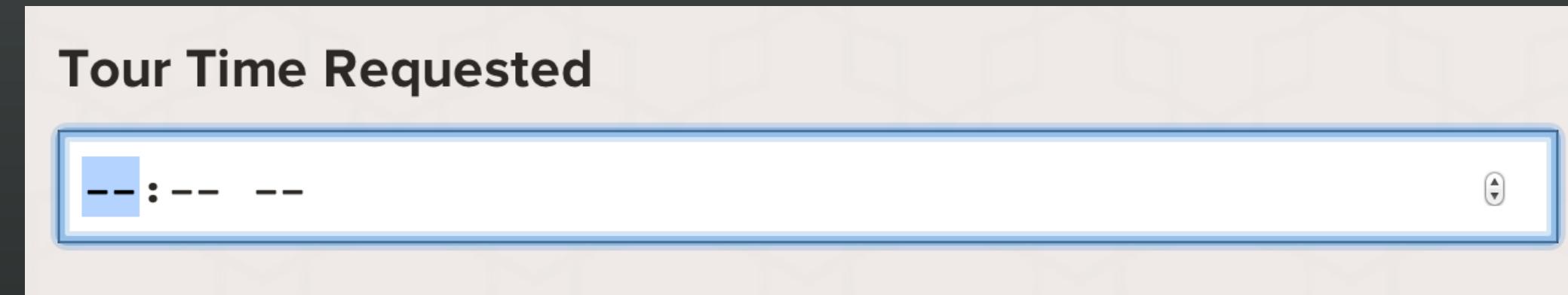
12 / 14 / 2014 🕒 ▼

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" />
```

# 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

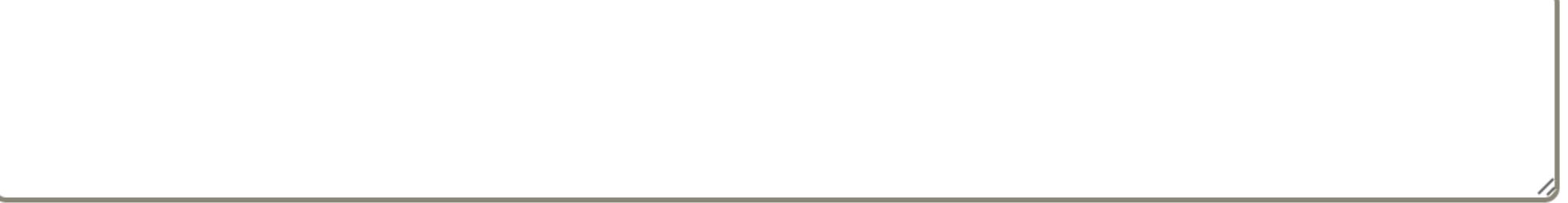
Purpose of Your Message

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



**Sign Me up to this newsletter**

```
<input type="checkbox" name="newsletter" value="yes">  
Sign me up for this newsletter
```

# Pattern 3: Confirmations



**Sign Me up to this newsletter**

```
<input type="checkbox" name="newsletter" value="yes"  
      id="newsletter">  
<label for="newsletter">Sign me up for this newsletter</label>
```

# Pattern 3: Confirmations



**Sign Me up to this newsletter**

```
<label>  
  <input type="checkbox" name="newsletter" value="yes">  
  Sign me up for this newsletter  
</label>
```

# Pattern 3: Confirmations



**Sign Me up to this newsletter**

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

# Pattern 3: Confirmations



**Sign Me up to this newsletter**

```
<label for="newsletter">  
  <input type="checkbox" name="newsletter" value="yes"  
        id="newsletter">  
    Sign me up for this newsletter  
</label>
```

# Pattern 3: Confirmations



**Sign Me up to this newsletter**

```
<li class="confirm">
  <label for="newsletter">
    <input type="checkbox" name="newsletter" value="yes"
           id="newsletter">
    Sign me up for this newsletter
  </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 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.

# Tap-friendly hit targets



**Sign Me up to this newsletter**

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

# Tap-friendly hit targets

**Sign Me up to this newsletter**

```
.config {  
  .radio {  
    .check {  
      margin: 10px;  
      padding: 5px;  
    }  
  }  
}  
  
 Sign Me up to this newsletter
```

label.option 220px × 43px

# 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\*

```
.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\*

# 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%;  
}
```

```
}
```

# 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<sup>x</sup>

# 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

```
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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Fork 0

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

Pulse

Graphs

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SSH clone URL

git@github.com:easy-



You can clone with HTTPS, SSH, or Subversion.

Clone in Desktop

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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" located to the right of the input fields.

# 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

```
.validation-error {  
  content: "x "  
  font-family: sans-serif;  
  speak: none;  
}  
  
x Email *  
  
Your email address is required
```

Screen Reader: Chrome Vox

Forms suck.

*can*  
Forms<sup>↖</sup>suck<sub>↖</sub>  
*a lot less*

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

# Thank you!

@AaronGustafson

[aaron-gustafson.com](http://aaron-gustafson.com)

[slideshare.net/AaronGustafson](http://slideshare.net/AaronGustafson)



easy designs