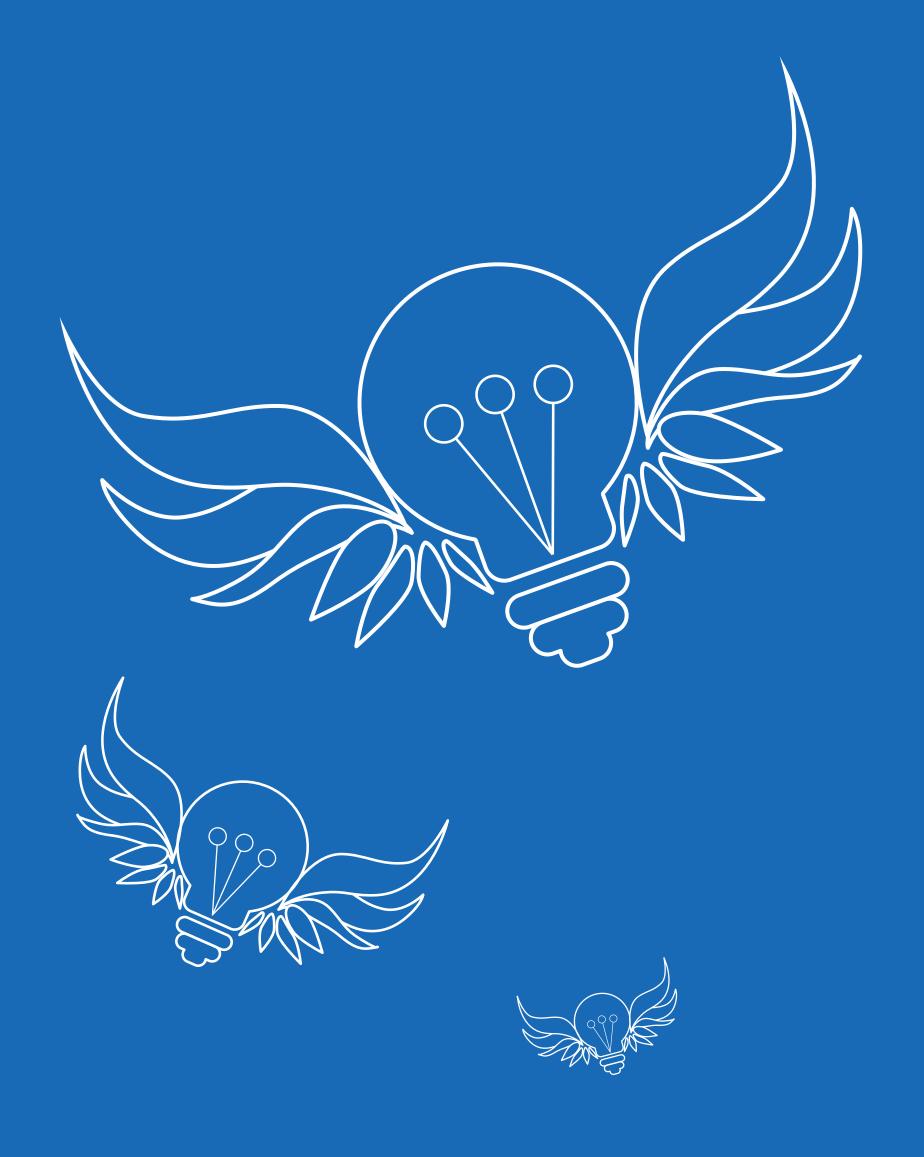
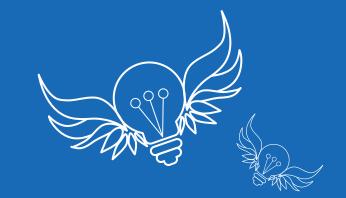
ACCESSIBILITY: WEB FORM BEST PRACTICES

Michael "Spell" Spellacy

Director, Accessibility



LOGICAL ORDER



- 1. As always, ensure that your source code is laid out in a logical order.
- 2. Tabbing through your form should be easy. A logical order not only benefits assistive technology users, but also power users who may tab through your interface.

!important: Do not use tabindex to address source order issues. The best solution is to fix your source order.

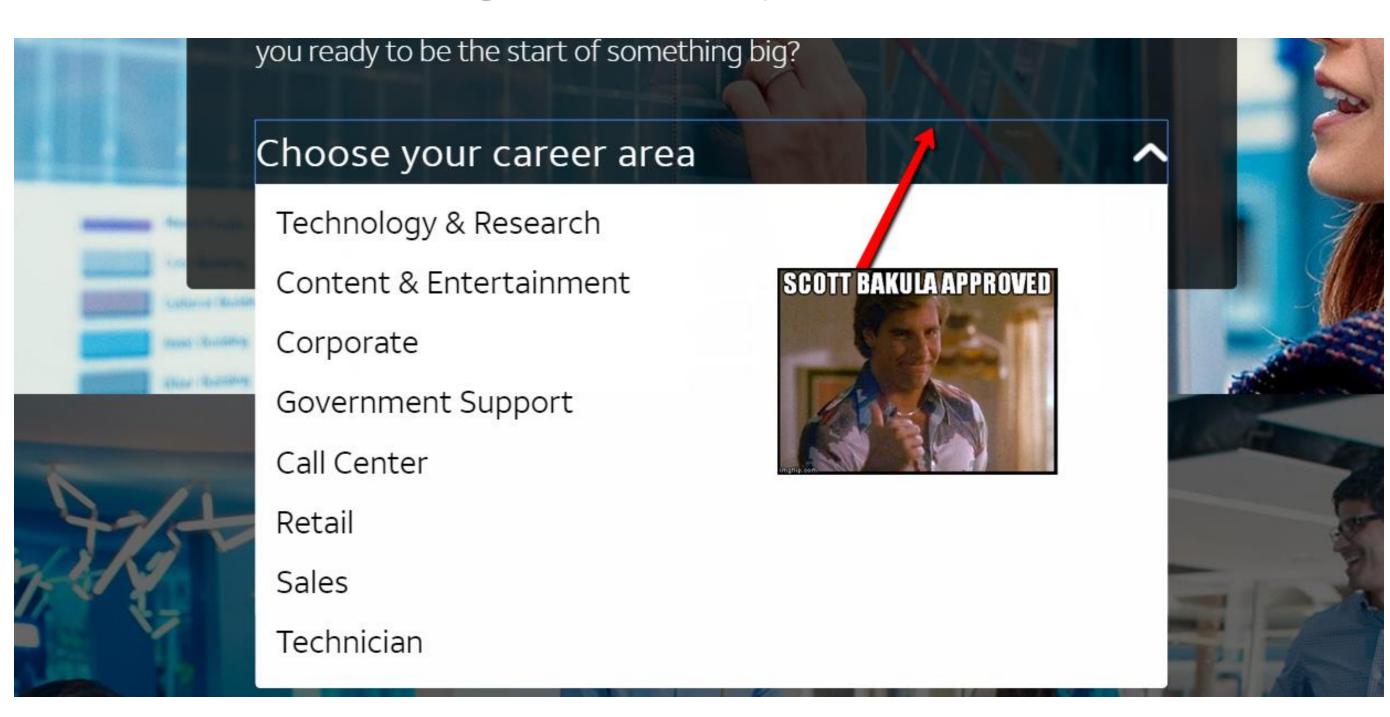
FOCUS RINGS



!important: Never disable focus rings (No matter how badly colleagues may beg you). What you can do is:

1. Redesign the focus ring (But make sure new ring is equally viewable).

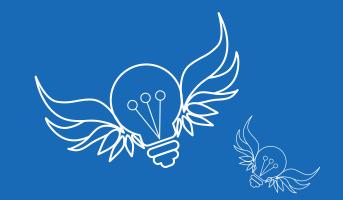
2. Rely on state changes.





Try to always include form labels (No matter how badly colleagues may beg you not to).

There are two ways to associate form labels with their fields:



Explicit Association:

<a href="mailto:<a href="mailt

<input id="first-name" name="first-name">



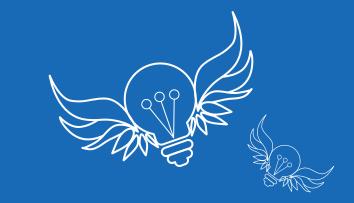
Implicit Association:

<a href="mailto:Iabel>First Name

<input id="first-name" name="first-name">

</label>

You will likely use the first method most of the time, but this may be useful with components like radio buttons or checkboxes.



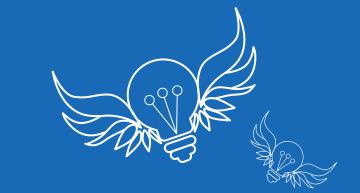
If you *must* hide labels...

Show them on focus

https://styleguide.talentbrew.com/latest/#/design/components/inputs

Pros: Best of both worlds...sort of.

Cons: Context may be lost if field is auto-populated with data.



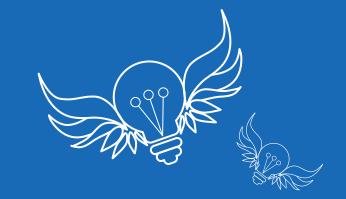
Other Techniques:

Using ARIA

<input aria-label="First Name" id="first-name" name="first-name">

Visually Hidden

First Name/label>



Pros: None (Unless you count making designers and stakeholders happy...I guess).

Cons:

Only screen reader users will benefit.*

Context may be lost if field is auto-populated with data.

aria-label can't be translated into other languages by services like Google Translate.

Reinforces bad practice of using placeholders for labels.

PLACEHOLDER



Placeholder text is *not a label*. Placeholder text should only be used to *help guide input or act as a hint*. This is especially useful when you want to suggest that data be formatted in a particular way:

<input id="phone" name="phone" placeholder="e.g. 867-5309">

Do not *repeat* label text in a placeholder:

<label for="first-name">First Name

<input id="first-name" name="first-name" placeholder="First Name">

GO NATIVE



Try to avoid building custom components that are already natively available in HTML. For example:

<div class="button">Submit</div>

To get this to behave like a native button we would need to add additional attributes:

<div class="button" role="button" tabindex="0">Submit</div>

In addition to possible scripting to submit data, etc.

GO NATIVE



A button element is *intrinsically accessible* without the need to add attributes (and potentially risk harming accessibility if you don't know what you are doing), so this is all we would need:

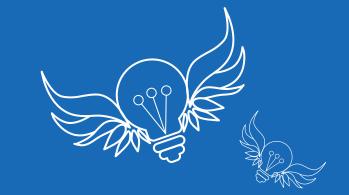
<button>Submit

Side note, using a hyperlink for a button is an equally bad practice. Don't do it!:

Submit

Good Example: https://www.screencast.com/t/GQRcc5tsm735

KEYBOARD ACCESSIBILITY

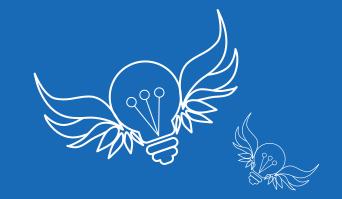


- 1. All form components must be keyboard friendly. Tab through your work frequently and note behavior. (*Listen* to your work with a screen reader, too!)
- 2. If you *must* build custom components, you will need to ensure proper keyboard handling, focus management, and (dynamic) ARIA usage. This is hard, and often unnecessary, work, but there are good examples around...

Good example:

https://styleguide.talentbrew.com/latest/#/design/controls/select

FIELDSETS



Use fieldsets to group sections in large forms or sections that may have *identical* information.

Let's take a look at an example of identical information...

FIELDSETS



Bad Example:

```
<section id="section-1">
     <input type="checkbox" id="category-filter-0">
     <label for="category-filter-0">Administrative</label>
</section>
<section id="section-2">
    <input type="checkbox" id="category-filter-42">
     <label for="category-filter-42">Administrative</label>
</section>
```

FIELDSETS



Good Example:

```
<fieldset id="section-1">
     <legend>Category</legend>
    <input type="checkbox" id="category-filter-0">
    <label for="category-filter-0">Administrative</label>
</fieldset>
<fieldset id="section-2">
    <legend>Country/Region</legend>
    <input type="checkbox" id="category-filter-42">
    <label for="category-filter-42">Administrative
</fieldset>
```

HTML5 TYPE ATTRIBUTES



Always use HTML5 Type Attributes. Doing so will bring up contextual virtual keyboards on mobile devices.

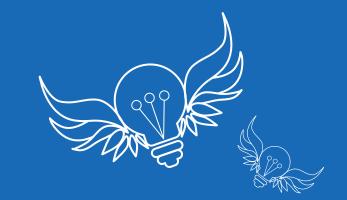
<input type="tel" id="phone" name="phone">

Non-supportive browser will simply fallback to type="text".

#progressiveenhancement #ftw

			4 # 40.00		
) # @ <u> </u>	∑	* * * * *	▲ 10:27		
productsupport.tmp.com			3		
Your Email Address *					
We will only use your email address to respond to your message.					
Your Phone Number *					
Your Local TMP Office *					
Select Location					
400011					
1	2 ABC	3 DEF	_		
4 GHI	5 JKL	6 MNO	ш		
7 PRQS	8 TUV	9 wxyz	×		
* #	0 +	•	\rightarrow I		
•					

HTML5 TYPE ATTRIBUTES



search email url tel number range date month week time datetime datetime-local color

BINDING ADVISORY TEXT



If your form field includes advisory text:

Your Email Address *

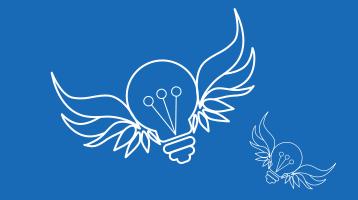
We will only use your email address to respond to your message.

Email Address:

<input id="email" name="email" type="email">

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

BINDING ADVISORY TEXT



You can associate the input field and the text by using aria-describedby:

Email Address:

<input id="email" name="email" type="email" aria-describedby="note-email">

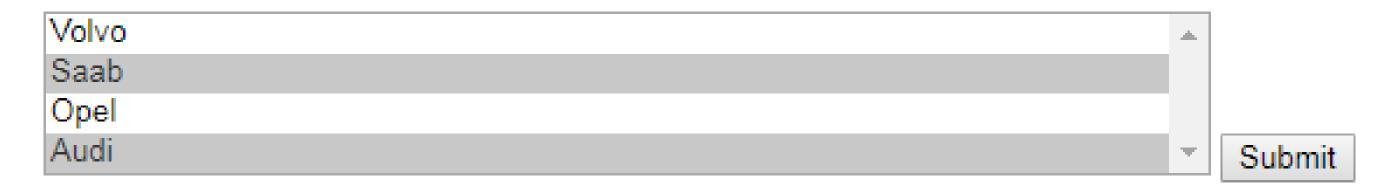
We will only use your email address to respond to your message.

Example: https://www.screencast.com/t/u6Z6BOTYpxdd

MULTISELECT VS. CHECKBOXES: FIGHT!



A quick note about multiselect fields – stay away from them!



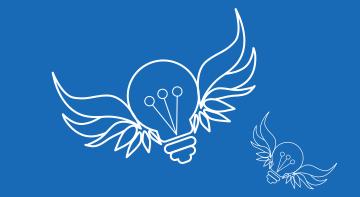
Hold down the Ctrl (windows) / Command (Mac) button to select multiple options.

They require different commands for different operating systems and work poorly on mobile, so use checkboxes instead! Sweet!

- Volvo
- Saab
- Opel
- Audi

Submit

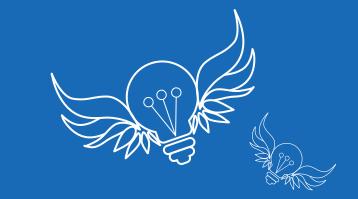
Ah, better.



Where you would include an asterisk to visually indicate a required field you must also include the required and aria-required (for not much longer) attributes.

Email Address*Iabel

<input id="email" name="email" type="email" required ariarequired="true">



If there are inline errors, this is how you could handle it:

Email Address*Iabel

<input id="email" name="email" type="email" required ariarequired="true" aria-invalid="true" aria-describedby="email-error">

Your email address is
required.

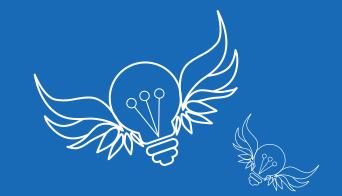


When grouping issues in a single message:

```
<div role="alert">
  Please address the following issues in your form:

      <a href="#company-name">Your Company Name</a> is a required field.
      <a href="#first-name">First Name</a> is a required field.
      <a href="#last-name">Last Name</a> is a required field.

</div>
```



When grouping issues:

Please address the following issues in your form:

- 1. Your Company Name is a required field.
- 2. First Name is a required field.
- 3. <u>Last Name</u> is a required field.

YOUR INFORMATION

Your Company Name *		
First Name *		
Last Name *		
Your Email Address *		
spell@spellacy.net		

FURTHER READING



Adaptive Web Design (2nd Edition) by Aaron Gustafson https://adaptivewebdesign.info/

An Extensive Guide To Web Form Usability by Justin Mifsud https://www.smashingmagazine.com/2011/11/extensive-guide-web-form-usability/

Web Form Design: Filling in the Blanks by Luke Wroblewski https://www.lukew.com/resources/web_form_design.asp

The Definitive Guide to Form Label Positioning by Jessica Enders https://www.sitepoint.com/definitive-guide-form-label-positioning/



