1 FORMS OF DOOM

Come to the dark side. We have cookies.

2 BEHOLD THE POWERS OF HTML5

**Attributes** 

**Input Types** 

JavaScript API

Styling

**3** ATTRIBUTES TO RULE THEM ALL

Placeholder

Required

**Autofocus** 

Autocomplete

Spellcheck

Pattern

### 4 4 <input placeholder="Full Name">

- Disappears as the user types.
- NOT a replacement for a proper label. I will hunt you down.
- 5 5 cinput required>
  - Validated by supporting browsers.
- 6 6 cinput autofocus>
  - Gives the first field in the source order with autofocus focus on page load.
  - Will scroll the page to give it focus.
  - Not supported by mobile browsers.
- 7 <input autocomplete="off">
  - Suggests to browsers that they not auto fill that form field.
  - Suggested for use on form fields the browser will probably auto fill wrong. For example: Name when you want a pet's name.
- 8 | <input spellcheck="false">
  - · Also accepts "true".
  - Tells the browser explicitly whether or not to spell check the field.
  - Good for fields where the input is expected to be interpreted as a misspelling.
- 9 | <input pattern="[a-zA-Z0-9]+" title="Letters and numbers

#### only please.">

- Matches a regular expression.
- Error message is non-specific. Some browsers will use title attribute to explain.
- · Only validates if something has been entered.

#### 10 CODING IMPRESSIVE.

Download the sample form: stephaniehobson.ca/html5forms See what your browser supports: http://goo.gl/OlzU

#### Add:

- Placeholder
- Required
- Autofocus
- Autocomplete (to the nemesis name field)
- Spellcheck (to the nemesis name field)
- Pattern

# 11 INPUT TYPES AND YOUR LITTLE DOG TOO

**Email** 

**URL** 

Tel

Search

Number

Range

Date

**Datalist** 

# 12 12 cinput type="email">

- · For email addresses.
- · Gives email keyboard.
- · Is validated as an email address.
- Special attribute:
  - multiple

#### 13 input type="url">

- For urls.
- · Gives url keyboard.
- · Is validated as a url.

## 14 (input type="tel">

- For phone numbers.
- · Gives number pad.
- · Very loosely validated.

# 15 input type="search">

- · No standard functionality.
- Rounded corners on some.
- · Remembered search terms on some.

## 16 input type="number">

- For numbers. Also called a "spinbox".
- Gives number keypad.
- Validated as a number (one day).
- Special attributes:
  - min
  - max
  - step
- Special pseudo classes:
  - :in-range { }
  - :out-of-range { }

## 17 input type="range">

- For numbers. Also called a "slider".
- · Exact number not displayed to user.
- · Special attributes:
  - min
  - max
  - step
- Special pseudo classes:
  - :in-range { }
  - :out-of-range { }

# 18 input type="date">

- · On focus displays a date picker.
- Configurable formats:
  - type="date"
  - type="datetime"
  - type="datetime-local"
  - type="month"
  - type="week"

• type="time"

#### </datalist>

- Text box with filtered list of suggestions.
- Replaces a select box with an "other please specify" option.
- Entire list isn't usually visible, appears as user types, filtered by what they've entered.
- Backwards compatible: http://goo.gl/GhfEl

#### 20 CODING MOST IMPRESSIVE.

Using the same form change:

- Birth/death date to date
- Army size to range
- Nemesis to datalist (Use Jeremy Keiths' backwards compatible version <a href="http://goo.gl/GhfEl">http://goo.gl/GhfEl</a>)

## 21 JAVASCRIPT API WITH LASER BEAMS

FormData
Constraint Validation
A Few More Elements

## 22 formData

var formData = new FormData();
formData.append("weapon", "Death Ray");
formData.append("cybernetics", "eye, left arm")

var xhr = new XMLHttpRequest();
xhr.open("POST", "http://goci.com/submission.php");
xhr.send(formData);

#### 23 formData

var formElement = document.getElementById("myForm"); var formData = new FormData(formElement); formData.append("Sidekick", "Harley Quinn,");

```
var xhr = new XMLHttpRequest();
        xhr.open("POST", "http://goci.com/submission.php");
        xhr.send(formData);
24 Constraint Validation
        el.validity
        el.validity.valid
        el.validity.valueMissing
        el.validity.typeMismatch
        el.validity.patternMismatch
        el.validity.tooLong
        el.validity.rangeUnderflow and rangeOverflow
        el.validity.stepMismatch
        el.validity.customError
25 Constraint Validation
        <label>Email:</label>
        <input type="email" id="email addr" name="email addr">
        <label>Repeat Email Address:</label>
        <input type="email" id="email addr repeat"
        name="email addr repeat" oninput="check(this)">
        <script>
        function check(input) {
          if (input.value !=
        document.getElementById('email addr').value) {
            input.setCustomValidity('The two email addresses must
        match.');
          } else {
           // input is valid -- reset the error message
           input.setCustomValidity(");
          }
        </script>
26 |                                                                                                                                                                                                                                                                                                                                                     <
        <label>Email:</label>
        <input type="email" id="email_addr" name="email_addr">
```

```
<label>Repeat Email Address:
      <input type="email" id="email_addr_repeat"</pre>
      name="email addr repeat" oninput="check(this)">
      <script>
      function check(input) {
       if (input.value !=
      document.getElementById('email addr').value) {
         input.setCustomValidity('The two email addresses must
      match.');
       } else {
        // input is valid -- reset the error message
        input.setCustomValidity(");
      </script>
27 CODING
      Add the code to check the email address (I hate these but it *is*
      an evil application form after all).
```

http://www.html5rocks.com/en/tutorials/forms/html5forms/

# 28 STYLING CUSTOM BABY SEAL LEATHER BOOTS ANYONE?

:required

:optional

:valid

:invalid

:default

#### [attribute]

#### 29 SUPPORT DO YOU KNOW HOW I GOT THESE SCARS?

**Fallbacks** 

- All fall back to text automatically. Isn't that awesome!
- http://adactio.com/journal/4272/

#### **Shims**

https://github.com/ryanseddon/H5F

# 30 RESOURCES I SEE YOU BROUGHT A FRIEND.

#### **Basic Introductions**

- http://diveintohtml5.info/forms.html
- http://24ways.org/2009/have-a-field-day-with-html5-forms/
- http://www.html5rocks.com/en/tutorials/forms/html5forms/

•

http://www.alistapart.com/articles/forward-thinking-form-validation/

#### **CSS**

- <a href="http://html5doctor.com/css3-pseudo-classes-and-html5-forms/">http://html5doctor.com/css3-pseudo-classes-and-html5-forms/</a> Compatibility Specifics
- http://wufoo.com/html5/
- http://miketaylr.com/code/input-type-attr.html