



Introduction to Web Technologies & HTML 5 Language

New Form Elements in HTML5



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Forms

□ Form Controls

- o HTML 4 controls are too limited
- o Several new types added

□New Input type

- o color
- o date
- o datetime
- o datetime-local
- o time
- o month
- o week

- Datalist
- o email
- o number
- o range
- o search
- o tel
- o url



- o <input type=tel>
- o <input type=time>
- o <input type=color>
- o <input type=month>
- o <input type=search>
- o <input type=number>

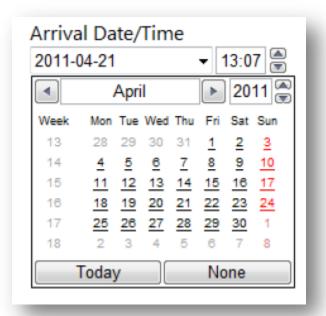
- o <input type=email>
- o <input type=range>
- o <input type=date>
- o <input type=time>
- o <input type=url>
- 0 ...



- ☐ <input type="" required>
 - **Required:** We also have required attribute to mark this field as mandatory.
- □ <input type="" multiple>
 - o **Multiple:** allows the user to enter multiple email addresses.
- □ <input type="" pattern="[0-9][A-Z]{3}">
 - Pattern: custom validate, A part number is a digit followed by three uppercase letters.
- ☐ input type="" placeholder="">
 - o **Placeholder:** add a <u>hint</u> inside the text-field, but where the hint automatically disappears when clicking inside it.



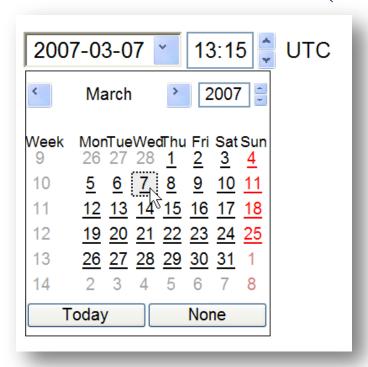
☐ Form Controls: Dates and Times (datetime)



<input type="datetime">



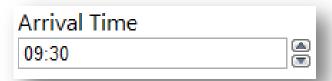
☐ Form Controls: Dates and Times (datetime-local)



<input type="datetime-local">



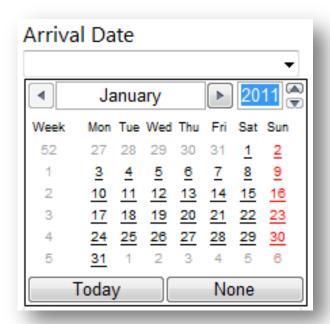
☐ Form Controls: Dates and Times (time)



<input type="time">



☐ Form Controls: Dates and Times (date)



<input type="date">



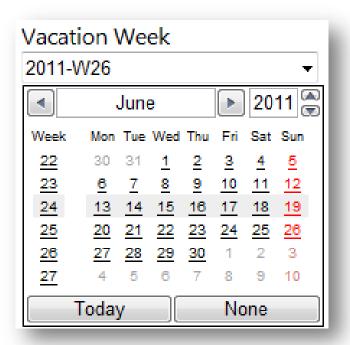
☐ Form Controls: Dates and Times (month)



<input type="month">



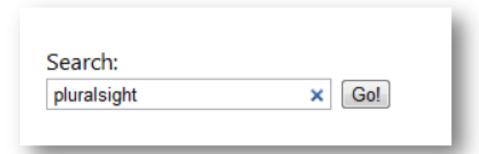
☐ Form Controls: Dates and Times (week)



<input type="week">



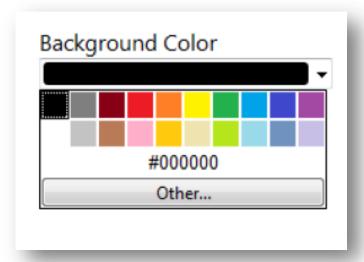
☐ Form Controls: Search



<input type="search">



☐ Form Controls: Color



<input type="color">



☐ Form Controls: Combo Boxes (datalist)

```
Title: Dr

Mr
Mr
Mrs
Miss
Miss
Ms
```

```
<input list="title-list">
<datalist id="title-list">
<option value="...">
</datalist>
```



☐ Form Controls: telephone

Telephone

555-555-5555

<input type="tel">



☐ Form Controls: number

Number of Years in Development:

<input type="number">



☐ Form Controls: range

```
Development Experience Range:
```

```
<input type="range">
```



☐ Form Controls: Email and URIs

lachlan.hunt@lachy.id.au

http://lachy.id.au

http://lachy.id.au/ http://lachy.id.au/log/ Lachlan Hunt: Web Development Guru

Lachy's Log

```
<input type="email"> <input type="url">
```



Form Attributes

- **☐** New attributes for <form>:
 - o autocomplete
 - novalidate
- **☐** New attributes for <input>:
 - o autocomplete
 - o <u>autofocus</u>
 - o <u>form</u>
 - o formaction
 - o formenctype
 - o formmethod
 - o formnovalidate
 - o formtarget
 - o height and width
 - o list

- o min and max
- o <u>multiple</u>
- o pattern (regexp)
- o placeholder
- o required
- o step



Form validation

- **□** New attributes to describe validity constraints for the expected input
 - o required, pattern, min, max, etc.
- □ New DOM APIs allow scripts to detect and deal with user input errors more easily
- **☐** We can check Form Validation using
 - CSS rule Validation
 - Custom Validation
 - o Built-in Form Validation
- **☐** More about Form Elements:
 - o http://www.w3schools.com/html/html5_form_elements.asp



Example:

HTML5 data Attributes

□ Store some extra information that doesn't have any visual representation.
□ The name of a custom data attribute begins with data□ It may contain only [a-z], [0-9], (-), (.), (:), (_).
□ It should not contain ASCII capital letters (A to Z).

```
data-animal-type="bird">Owldata-animal-type="fish">Salmondata-animal-type="spider">Tarantula
```



Self Study

□ Self Study Topics:

- Make **Presentation with demo** on these HTML 5 new Features:
 - ✓ What's Semantic Web?
 - ✓ What's the differences between Microdata and RDF?
 - ✓ Form Keygen, and Output form Elements
 - ✓ Local Storage & Session Storage
 - ✓ App Cache
 - ✓ Web Workers
 - ✓ HTML 5 Drag&Drop took it with eng / christen
 - **✓** Server Sent Events.
 - ✓ HTML5 New tags (more than Explained in the Course).
 - ✓ New CSS3 features (more than Explained in the Course).
 - ✓ New JavaScript APIs in HTML5
 - ✓ Modernizer Library & YepNope.
 - ✓ Creating Responsive Websites
 - ✓ Shiv Project



Summery..





<Questions>? </Questions>



Thank You...