



# Introduction to Web Technologies & HTML 5 Language

**New Form Elements in HTML5** 



ITI – Assiut Branch Eng. Hany Saad



# Topics we will Learn...



#### **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>

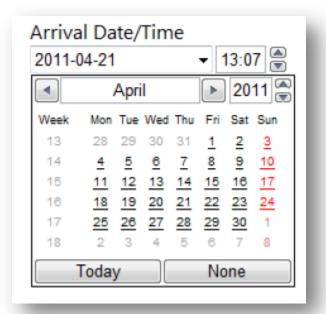
- o <input type=email>
- o <input type=range>
- o <input type=date>
- o <input type=time>
- o <input type=url>
- 0 ...



- ☐ <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 hint inside the text-field, but where the hint automatically disappears when clicking inside it.



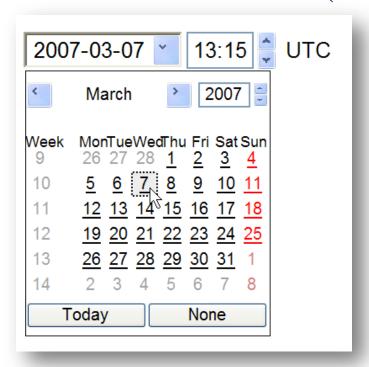
☐ Form Controls: Dates and Times (datetime)



<input type="datetime">



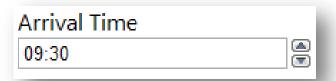
☐ Form Controls: Dates and Times (datetime-local)



<input type="datetime-local">



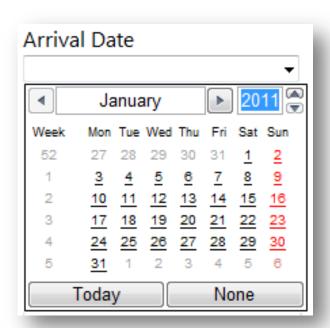
☐ Form Controls: Dates and Times (time)



<input type="time">



☐ Form Controls: Dates and Times (date)



<input type="date">



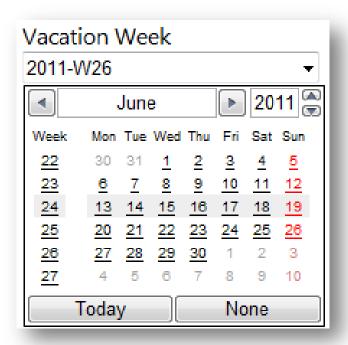
☐ Form Controls: Dates and Times (month)



<input type="month">



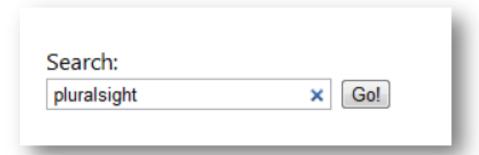
☐ Form Controls: Dates and Times (week)



<input type="week">



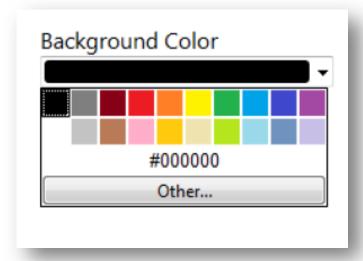
**☐** Form Controls: Search



<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 autofocus
  - o form
  - o formaction
  - o formenctype
  - o formmethod
  - o formnovalidate
  - o formtarget
  - o height and width
  - o list

- o min and max
- o multiple
- 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 <a href="http://www.w3schools.com/html/html5\_form\_elements.asp">http://www.w3schools.com/html/html5\_form\_elements.asp</a>



#### 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).
□ Example:

```
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
  - ✓ 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...**