Chapter 3 Introduction to HTML5

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- New HTML5 Form input Types
 - input Type color
 - input Type date
 - input Type datetime
 - input Type datetime-local
 - input Type month
 - input Type week
 - input Type time

- New HTML5 Form input Types
 - input Type email
 - input Type number
 - input Type range
 - input Type search
 - input Type tel
 - input Type url

- input and datalist Element and autocomplete Attribute
 - input Element autocomplete Attribute
 - datalist Element

- Page-Structure Element
 - header Element
 - nav Element
 - figure Element and figcaption Element
 - article Element
 - summary Element and details Element
 - section Element
 - aside Element
 - meter Element
 - footer Element
 - mark Element
 - wbr Element

- These are not yet universally supported by all browsers.
 - Ref :http://www.wufoo.com/html5/

		l Firefox	& Safari	L Safari	© Chrome	Opera	€ IE	Android
Email	•	4+	5+	3.1+	6+/10+	10.6+	10+	4+
Tel	•	4+	5+	3.1+	6+	10.6+	10+	2.3+
Url	•	4+	5+	3.1+	6+/10+	10.6+	10+	2.3+
Search	•	4+	5+	4+	6+	10.6+	9/10+	4+
Color	•	29+	8+	8-	20+	11+	11-	4.4+
Number	•	29+	5+	3.2+	7+	9+	10+	2.3+
Range	•	23+	4+	5+	6+	11+	10+	4.2+
Date	•	32-	7-	5+	20+	9+	11-	4.4+

		l Firefox	Safari	l Safari	© Chrome	Opera	€ IE	Android
Placeholder	•	4+	4+	4+	10+	11.10+	10+	2.3+
Autofocus	•	4+	5+	5-	6+	11+	10+	3+
Maxlength	•	4.4+	5+	4+	6+	11+	<mark>9/</mark> 10	2.3+
List (Datalist)	•	4+	7-	7-	20+	9+	10+	4.3-
Autocomplete	•	4+	5.2+	6+	14+	10.6+	11+	4.4+
Required	•	6+	5+	4+	6+	10.6+	10+	2.3+
Pattern	•	4+	5+	4+	10+	11+	10+	2.3+
Spellcheck	•	3.6+	4+	7+	10+	11+	10+	4.3-
Novalidate	•	4+	7-	7-	10+	10+	10+	4.2-
Formnovalidate	•	4+	7-	7-	6+	10.6+	10+	4.2-
Formaction	•	4+	5.2+	5+	10+	10.6+	10+	4.0+
Formmethod	0	4+	5.2+	5+	10+	10.6+	10+	4.0+
Formtarget	•	4+	5.2+	5+	10+	10.6+	10+	4.0+
Formenctype	•	4+	5.2+	5+	10+	10.6+	10+	4.0+
minlength	0	28-	7-	7-	33-	20-	11-	4.4-
readonly	•	All	All	All	All	All	All	All
disabled	•	All	All	All	All	All	All	All
size	•	All	All	All	All	All	All	All
name	•	All	All	All	All	All	All	All
height, width & source	•	All	All	All	All	All	All	All
checked	•	All	All	All	All	All	All	All

- Test browser support
 - https://html5test.com/

W3c validator

 The xxx input type is not supported in all browsers. Please be sure to test, and consider using a polyfill.

Polyfill

- A polyfill or polyfiller is code designed to provide technology that is not native to a web browser.
- http://afarkas.github.io/webshim/demos/

chrome

(Hexadecimal code such as #ADD8E6)

(Hexadecimal code such as #ADD8E6)

基本色彩(B):

New HTML5 Form input Typ

input Type color

```
<!DOCTYPE html>
<html>
   <head>
                                                                                          色調(E): 160 紅(R): 0
      <meta charset="utf-8">
                                                                                          濃度(S): 0 線(G): 0
      <title>New HTML5 Input Types</title>
                                                                    定義自訂色彩(D) >>
                                                                                    色彩原色(O) <u>克度(L)</u>: 0 藍(U): 0
  </head>
                                                                 確定
取消
                                                                                          新增自訂色彩(A)
  <body>
      <form method = "post" action = "/http://www.deitel.com">
            <label>Color:
               <input type = "color" autofocus />
                (Hexadecimal code such as #ADD8E6)
           </label>
         <q>
            <input type = "submit" value = "Submit" />
            <input type = "reset" value = "Clear" />
         </form>
  </body>
                                                                          IE 11
</html>
```

Color: #ADD8E6

Submit

Clear

- The *color* input type enables the user to enter a color.
 - At the time of this writing, most browsers render the color input type as a text field in which the user can enter a hexadecamal code or a color name.
 - In the future, when you click a color input, browsers will likely display a color picker similar to the Microsoft Windows color dialog
- The *autofocus* attribute—an optional attribute that can be used in only one input element on a form—automatically gives the focus to the input element, allowing the user to begin typing in that element immediately.

input Type date



- The *date* input type enables the user to enter a date in the form yyyy-mm-dd.
 - a text field, user can enter a date such as 2012-01-27.
 - a spinner control—a text field with an up-down arrow () on the right side—allowing the user to select a date by clicking the up or down arrow.
- The start date is the current date.

• input Type datetime

```
<!DOCTYPE html>
<html>
   <head>
                                                                           chrome
      <meta charset="utf-8">
      <title>New HTML5 Input Types</title>
                                                                              (yyyy-mm-ddThh:mm+ff:gg, such as 2012-01-27T03:15)
                                                       Datetime:
   </head>
                                                        Submit Clear
   <body>
      <form method = "post" action = "http://www.deitel.com">
      <q>
             <label>Datetime:
                 <input type = "datetime" />
                    (yyyy-mm-ddThh:mm+ff:qq, such as 2012-01-27T03:15)
             </label>
      </p>
      <p>
             <input type = "submit" value = "Submit" />
             <input type = "reset" value = "Clear" />
                                                                                 IE 11
          </form>
                                                       Datetime: 2012-01-27T03:15 × (yyyy-mm-ddThh:mm+ff:gg, such as 2012-01-27T03:15)
   </body>
</html>
                                                               Clear
                                                        Submit
```

- yyyy-mm-ddThh:mm+ff:gg
 - yyyy: Four digits for the year.
 - -: An actual dash character
 - mm: Two digits for the month.
 - dd: Two digits for the day.
 - T: The capital T indicates the beginning of the time part of the code.
 - hh: Two digits for the hour, in 24-hour format.
 - :: The colon character between the hour and minutes.
 - mm: Two digits for the minutes.
 - +/-/Z: The time zone offset is indicated by a capital Z (if the time is Zulu or GMT time) or the + or symbol if time is in another time zone.
 - ff: If the time zone is not Zulu, indicate the number of hours offset from GMT.
 - gg: Number of minutes offset from Zulu time. Typically this is oo, but it is possible that the time zone will be offset by 15, 30, or 45 minutes.

- The datetime input type enables the user to enter a date (year, month, day), time (hour, minute, second, fraction of a second) and the time zone set to UTC
- Currently, most of the browsers render datetime as a text field.

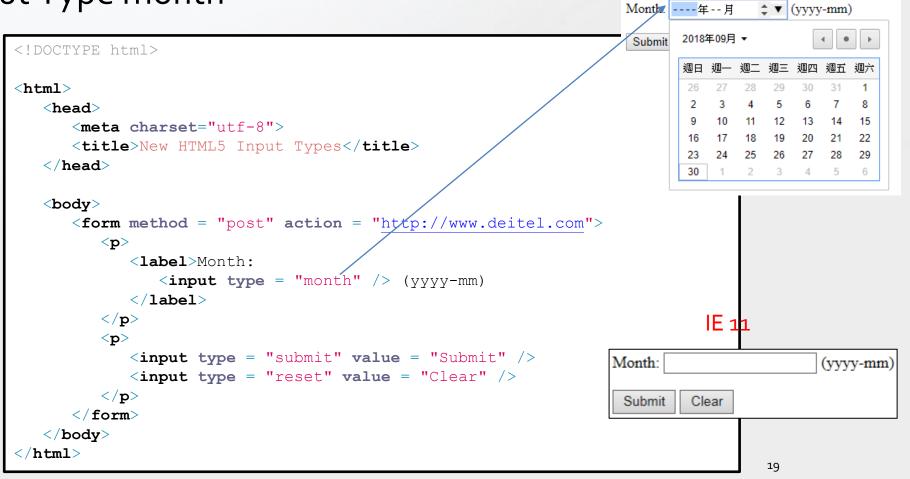
input Type datetime-local

```
chrome

† (yyyy-mm-ddThh:mm, such as 2012-01-27T03:15)
                                                                 年 /月/日 -- --:--
<!DOCTYPE html>
                                                                  2018年09月 マ
                                                                                4 0 >
                                                        Submit Clear
<html>
   <head>
      <meta charset="utf-8">
      <title>New HTML5 Input Types</title>
   </head>
   <body>
      <form method = "post" action = "http://www.deitel.com">
          >
             <label>Datetime-local:
                 <input type = "datetime-local" />
                    (yyyy-mm-ddThh:mm, such as 2012-01-27T03:15)
             </label>
          <p>>
             <input type = "submit" value = "Submit" />
             <input type = "reset" value = "Clear" />
                                                                                 IE 11
          </form>
                                           Datetime-local:
                                                                          (yyyy-mm-ddThh:mm, such as 2012-01-27T03:15)
   </body>
< / <code>html></code>
                                            Submit
                                                    Clear
```

- The *datetime-local* input type enables the user to enter the date and time in a single control.
- The data is entered as year, month, day, hour, minute, second and fraction of a second.

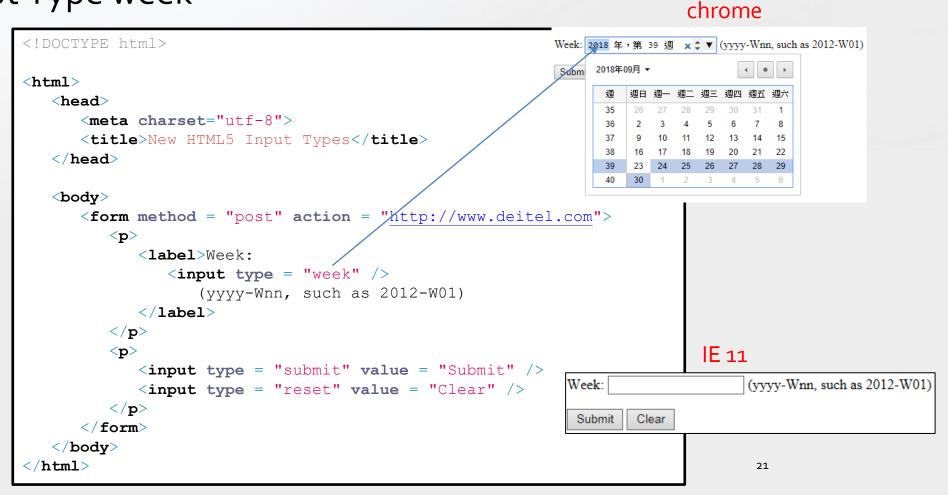
input Type month



chrome

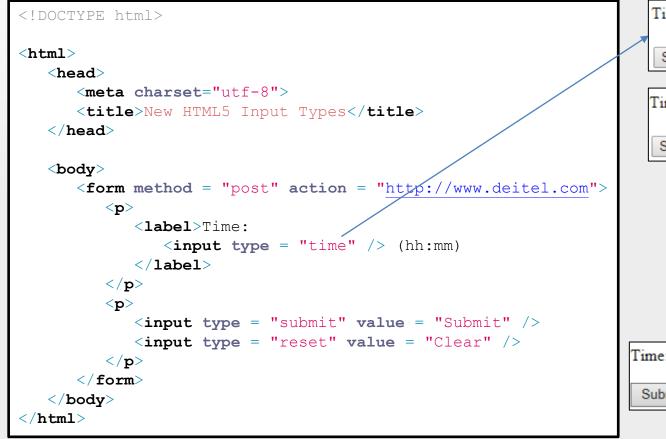
• The *month* input type enables the user to enter a year and month in the format yyyy-mm, such as 2012-01.

input Type week

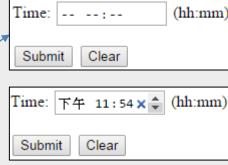


• The *week* input type enables the user to select a year and week number in the format yyyy-Wnn, where nn is 01–53—for example, 2012-W01 represents the first week of 2012.

input Type time



chrome

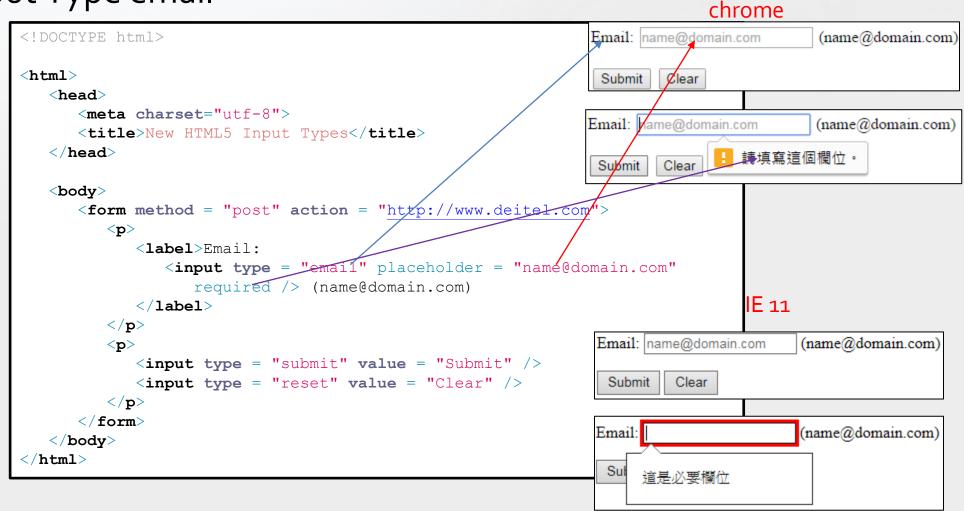


IE 11

Γime:		(hh:mm)
Submit	Clear	

- The *time* input type enables the user to enter an hour, minute.
- The HTML5 specification indicates that a time must have two digits representing the hour, followed by a colon (:) and two digits representing the minute.

input Type email



- The *email* input type enables the user to enter an e-mail address or a list of e-mail addresses separated by commas (if the multiple attribute is specified).
- Currently, all of the browsers display a text field.
- If the user enters an invalid e-mail address (i.e., the text entered is not in the proper format) and clicks the Submit button, a callout asking the user to enter an e-mail address is rendered pointing to the input element.
- HTML5 does not check whether an e-mail address entered by the user actually exists—rather it just validates that the e-mail address is in the proper format.

- The *placeholder* attribute allows you to place temporary text in a text field.
- Generally, placeholder text is light gray and provides an example of the text and/or text format the user should enter.
- When the focus is placed in the text field (i.e., the cursor is in the text field), the placeholder text disappears—it's not "submitted" when the user clicks the Submit button (unless the user types the same text).
- HTML5 supports placeholder text for only six input types text, search, url, tel, email and password.

- The *required* attribute forces the user to enter a value before submitting the form.
- You can add required to any of the input types.

Validation

- The new HTML 5 input types are self validating on the client side, eliminating the need to add complicated JavaScript code to your web pages to validate user input.
- The server should still validate all user input.
- When a user enters data into a form then submits the form the browser immediately checks the self-validating elements to ensure that the data is correct.

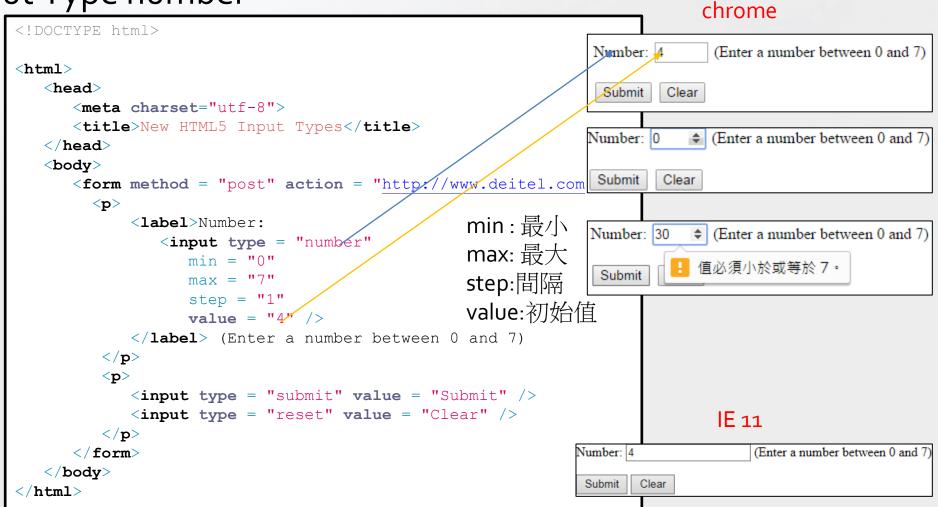




• If you want to bypass validation, you can add the *formnovalidate* attribute to input type submit.

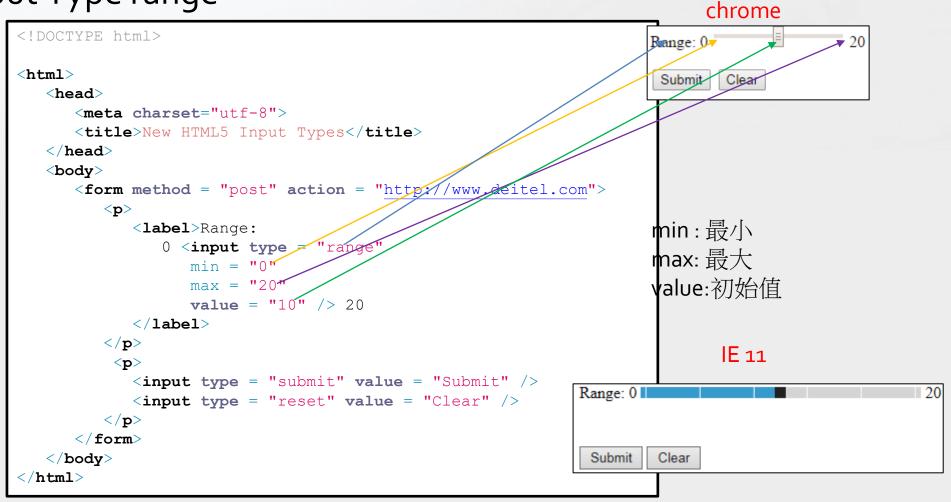
```
<input type = "submit" value = "Submit" formnovalidate />
```

input Type number



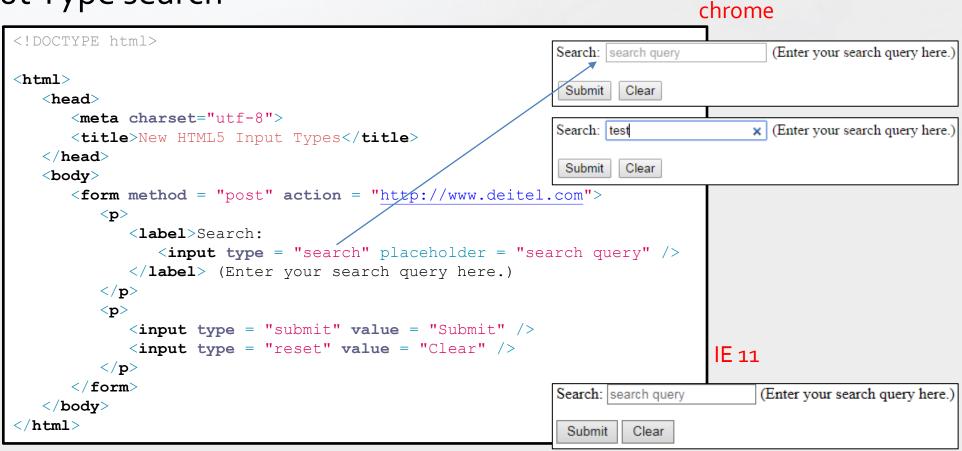
- The *number* input type enables the user to enter a numerical value— mobile browsers typically display a numeric keypad for this input type.
- The *min* attribute sets the minimum valid number.
- The max attribute sets the maximum valid number.
- The *step* attribute determines the increment in which the numbers increase.
- The *value* attribute sets the initial value displayed in the form .
- The spinner control includes only the valid numbers.

input Type range



- The range input type appears as a slider control
- You can set the minimum and maximum and specify a value.
- The *range* input type is inherently self-validating when it is rendered by the browser as a slider control, because the user is unable to move the slider outside the bounds of the minimum or maximum value.

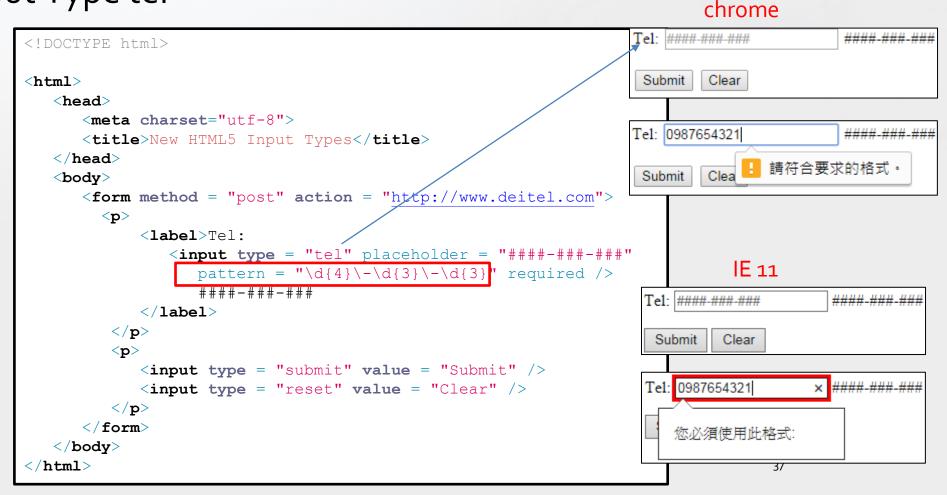
input Type search



- The *search* input type provides a search field for entering a query.
- This input element is functionally equivalent to an input of type text.
- When the user begins to type in the search field, Chrome and Safari display an X that can be clicked to clear the field.

New HTML5 Form input Types

input Type tel



New HTML5 Form input Types

- The *tel* input type enables the user to enter a telephone number—mobile browsers typically display a keypad specific to entering phone numbers for this input type.
- At the time of this writing, the tel input type is rendered as a text field in all of the browsers.
- HTML5 does not self validate the *tel* input type.
- To ensure that the user enters a phone number in a proper format, we've added a *pattern* attribute that uses a regular expression to determine whether the number is in the format.
- When the user enters a phone number in the wrong format, a callout appears requesting the proper format, pointing to the *tel* input element.

Matches any single character.
[] # Matches a single character that is contained within the brackets.
() # Groups expressions to assist in alternation and back referencing.
^ # Matches the starting position within the string.
\$ # Matches the ending position of the string or the position just before a stringending newline.

```
e.g
[abc] # match "a" or "b" or "c"
[A-Z] # match "A" to "Z"
[a-z] # match "a" to "z"
[0-9] # match "0" to "9"
```

```
+ # Matches the preceding element one or more times.
* # Matches the preceding element zero or more times.
? # Matches the preceding element zero or one time
{n,m} # Matches from n to m of the preceding characters
{n} # Matches exactly n times of the preceding characters...
{n,} # Matches at least n of of the preceding characters
```

```
e.g
a+ # match "a" or "aa" or "aaa" ...
A? # match "A" or ""
b{1,3} # match "b" or "bb" or "bbb"
B{2} # match "BB"
C{2,} # match "CC" or "CCC" or "CCCC"...
```

• Escaped characters

```
\d # digit
\D # Non-digit
\s # whitespace
\S # Non-whitespace
\t # Tab
```

• Escape character

```
- \.

e.g. IP

- \(
e.g. Telphone

- \[
- \{
```

Exercise

- Regular Expression
 - 學號
 - SXXXXXXX
 - 市話
 - (##) ###-####
 - (##) ####-####
 - (###) ###-###
 - YZU Email
 - sxxxxxxx@mail.yzu.edu.tw
 - xxxxx@saturn.yzu.edu.tw

Exercise

- Regular Expression
 - PTT ID
 - 英數組成
 - 第一碼不為數字
 - 最多12碼、最少2碼
 - 身分證字號
 - 大寫英文 + 1 or 2 + 八碼數字

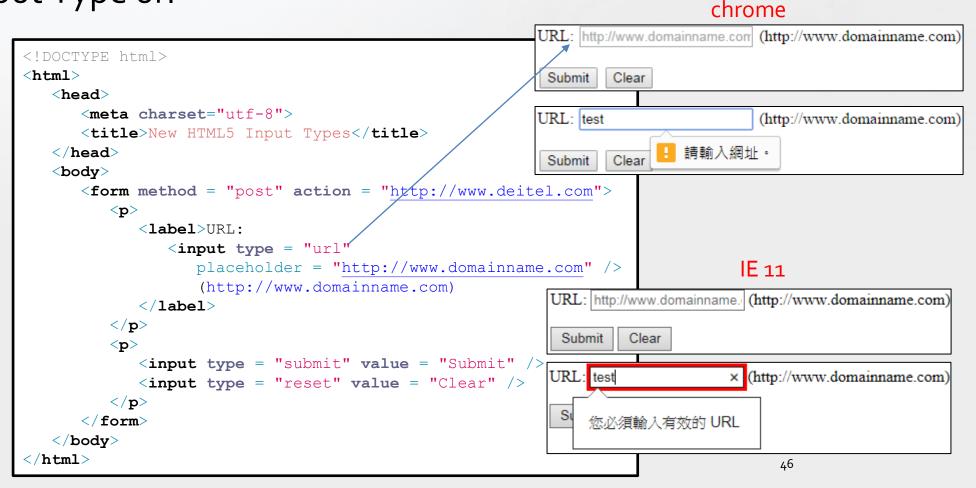
Exercise

- Student ID
 - s+學號七碼
- Cell Phone
 - o9##-###-###
- License Plate
 - 前三碼大寫英文-後四碼數字(不包含4)
 - 兩碼英數-後四碼數字
 - 前四碼數字-後兩碼不限

Name: Student ID: s###### Cell Phone: 09## ### ### License Plate: ## #### | ### ### ### Email: Submit Clear

New HTML5 Form input Types

input Type url



New HTML5 Form input Types

- The *url* input type enables the user to enter a URL.
- The element is rendered as a text field, and the proper format is http://www.deitel.com.
- If the user enters an improperly formatted URL (e.g., www.deitel.com or www.deitelcom), the URL will not validate

```
<!DOCTYPE html>
<html>
   <head>
     <meta charset="utf-8">
     <title>New HTML5 autocomplete Attribute and datalist Element</title>
   </head>
  <body>
     <h1>Autocomplete and Datalist Demo</h1>
     >This form demonstrates the new HTML5 autocomplete attribute
        and the datalist element.
     <form method = "post" autocomplete = "on">
        <label>First Name:
           <input type = "text" id = "firstName"</pre>
              placeholder = "First name" /> (First name)
           </label>
        <label>Last Name:
           <input type = "text" id = "lastName"</pre>
              placeholder = "Last name" /> (Last name)
           </label>
        <label>Email:
           <input type = "email" id = "email"</pre>
              placeholder = "name@domain.com" /> (name@domain.com)
           </label>
        <input type = "submit" value = "Submit" />
           <input type = "reset" value = "Clear" />
      </form>
  </body>
</html>
```

Autocomplete and Datalist Demo		
This form demonstrates the new HTML5 autocomplete attribute and the datalist element.		
First Name: First name	(First name)	
Last Name: Last name	(Last name)	
Email: name@domain.com (name@domain.com)		
Submit Clear		

Autocomplete and Datalist Demo		
This form de	emonstrates the new HTML5 autocomplete attribute and the datalist eleme	ent.
First Name:	t (First name)	
Last Name:	tinin (Last name)	
Email: name@domain.com (name@domain.com)		
Submit	Clear	

- The autocomplete attribute can be used on input types to automatically fill in the user's information based on previous input—such as name, address or e-mail.
- You can enable autocomplete for an entire form or just for specific elements.



Error-Prevention Tip 3.1

The autocomplete attribute works only if you specify a name or id attribute for the input element.



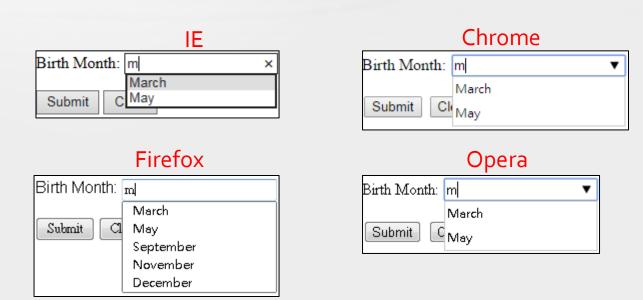


January

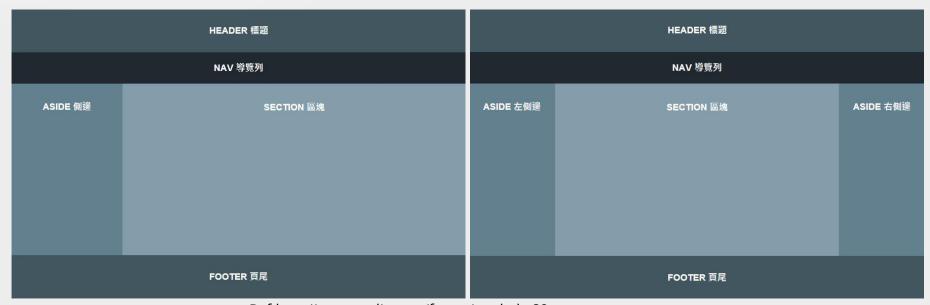
July

Submit

- The datalist element provides input options for a text input element.
- At the time of this writing, datalist support varies by browser.



 HTML5 introduces several new page-structure elements that meaningfully identify areas of the page as headers, footers, articles, navigation areas, asides, figures and more.



Ref:http://mepopedia.com/forum/read.php?804,45304



Welcome to the Deitel Buzz Online

2012-01-17

```
<!DOCTYPE html>
<html>
   <head>
      <meta charset="utf-8">
      <title>New HTML5 Section Elements</title>
   </head>
   <body>
      <header>
         <img src = "deitellogo.png" alt = "Deitel logo" />
         <h1>Welcome to the Deitel Buzz Online<h1>
         <time>2012-01-17</time>
      </header>
   </body>
</html>
```

header Element

- The *header* element creates a header for this page that contains both text and graphics.
- The header element can be used multiple times on a page and can include HTML headings (<h1> through <h6>), navigation, images and logos and more.

time Element

 The time element, which does not need to be enclosed in a header, enables you to identify a date, a time or both.

</html>

```
<html>
  <head>
     <meta charset="utf-8">
     <title>New HTML5 Section Elements</title>
  </head>
  <body>
     <section id = "1">
        <nav>
           <h2> Recent Publications</h2>
           ul>
              <a href = "http://www.deitel.com/books/iw3htp5">
                 Internet & World Wide Web How to Program, 5/e</a>
              <a href = "http://www.deitel.com/books/androidfp/"></a>
                Android for Programmers: An App-Driven Approach</a>
              <a href = "http://www.deitel.com/books/iphonefp">
                iPhone for Programmers: An App-Driven Approach</a>
              <a href = "http://www.deitel.com/books/jhtp9/"></a>
                Java How to Program, 9/e</a>
              <a href = "http://www.deitel.com/books/cpphtp8/">
                C++ How to Program, 8/e < /a > 
              <1i>>
                 <a href = "http://www.deitel.com/books/vcsharp2010htp">
                   Visual C# 2010 How to Program, 4/e < /a > 
              <a href = "http://www.deitel.com/books/vb2010htp">
                Visual Basic 2010 How to Program</a>
           /n 2 77
</body>
```

- Internet & World Wide Web How to Program, 5/e
- Android for Programmers: An App-Driven Approach
- iPhone for Programmers: An App-Driven Approach
- Java How to Program, 9/e
- C++ How to Program, 8/e
- Visual C# 2010 How to Program, 4/e
- Visual Basic 2010 How to Program

nav Element

- The *nav* element groups navigation links.
- Notice that NOT all links of a document should be inside a <nav> element. The <nav> element is intended only for major block of navigation links.



section Element

- The *section* element describes a section of a document, usually with a heading for each section-these elements can be nested.
- In this example, we broke the document into three sections the first is Recent Publications.
- The *section* element may also be nested in an article.

```
Java How to Program, 9/e
<!DOCTYPE html>
<html>
   <head>
      <meta charset="utf-8">
      <title>New HTML5 Section Elements</title>
   </head>
                                                                 Java How to Program, 9/e cover.
   <body>
      <section id = "2">
         <h2>How to Program Series Books</h2>
         <h3><em>Java How to Program, 9/e</em></h3>
         <figure>
            <img src = "jhtp.jpg" alt = "Java How to Program, 9/e" />
            <figcaption><em>Java How to Program, 9/e</em>
               cover.</figcaption>
         </figure>
 </body>
                                                                                 61
</html>
```

How to Program Series Books

figure Element and figcaption Element

- The *figure* element describes a figure (such as an image, chart or table) in the document.
- The *figcaption* element provides a caption for the image in the figure element.

```
<html>
  <head>
     <meta charset="utf-8">
     <title>New HTML5 Section Elements</title>
  </head>
     <article>
        <header>
          <h5>From <em><a href = "http://www.deitel.com/books/jhtp9/">Java How to program, 9/e: </a></h5>
        </header>
        Features include:
           ul>
              Rich coverage of fundamentals, including <mark>two chapters on control statements.</mark>
             Focus on <mark>real-world examples.</mark>
             <mark>Making a Difference exercises set.</mark>
             Early introduction to classes, objects, methods and strings.
             Integrated exception handling.
             Files, streams and object serialization.
             Optional modular sections on language and library features of the new Java SE 7.
              Other topics include: Recursion, searching, sorting, generic collections, generics, data structures, applets,
                 multimedia, multithreading, databases/JDBC™, web-app development, web services and an optional ATM Object-
                 Oriented Design case study.
             <summary>Recent Edition Testimonials</summary>
               "Updated to reflect the state of the art in Java technologies; its deep and crystal clear explanations make it
                   indispensable. The social-consciousness [Making a Difference] exercises are something really new and
                   refreshing."<strong>&mdash; Jos&eacute; Antonio Gonz&aacute; lez Seco, Parliament of Andalusia</strong>
               "Gives new programmers the benefit of the wisdom derived from many years of software development."
                   experience."<strong>&mdash;Edward F. Gehringer, North Carolina State University</strong>
               "Introduces good design practices and methodologies right from the beginning. An excellent starting point for
                   developing high-quality robust Java applications."<strong>&mdash;Simon Ritter, Oracle Corporation</strong>
               "An easy-to-read conversational style. Clear code examples propel readers to become proficient in
                   Java."<strong>&mdash;Patty Kraft, San Diego State University</strong>
               "A great textbook with a myriad of examples from various application domains— excellent for a typical CS1 or
                   CS2 course."<strong>&mdash; William E. Duncan, Louisiana State University</strong>
          </details>
</html>
```

From Java How to program, 9/e:

:emphasized text

Features include:

<mark>

- Rich coverage of fundamentals, including two chapters on control statements.
- Focus on real-world examples.
- Making a Difference exercises set.
- · Early introduction to classes, objects, methods and strings.
- · Integrated exception handling.
- Files, streams and object serialization.
- Optional modular sections on language and library features of the new Java SE 7.
- · Other topics include: Recursion, searching, sorting, generic collections, generics, data structures, applets,

▶ Recent Edition Testimonials <details><summary>

Features include:

- Rich coverage of fundamentals, including two chapters on control statements.
- Focus on real-world examples.
- Making a Difference exercises set.
- · Early introduction to classes, objects, methods and strings.
- · Integrated exception handling.
- · Files, streams and object serialization.
- Optional modular sections on language and library features of the new Java SE 7.
- · Other topics include: Recursion, searching, sorting, generic collections, generics, data structures, applets,

▼ Recent Edition Testimonials <details><summary>

- . "Updated to reflect the state of the art in Java technologies; its deep and crystal clear explanations make
- "Gives new programmers the benefit of the wisdom derived from many years of software development e
- "Introduces good design practices and methodologies right from the beginning. An excellent starting point
- "An easy-to-read conversational style. Clear code examples propel readers to become proficient in Java."
- "A great textbook with a myriad of examples from various application domains—excellent for a typical

article Element

- The article element describes standalone content that could potentially be used or distributed elsewhere, such as a news article, forum post or blog entry.
- You can nest article elements. For example, you might have reader comments about a magazine nested as an article within the magazine article.

summary Element and details Element

- The *summary* element displays a right-pointing arrow next to a summary or caption when the document is rendered in a browser.
- When clicked, the arrow points downward and reveals the content in the *details* element.

mark Element

• The *mark* element highlights the text that's enclosed in the element.

```
<!DOCTYPE html>
<html>
   <head>
     <meta charset="utf-8">
     <title>New HTML5 Section Elements</title>
   </head>
   <body>
     <aside>
            The aside element is not formatted by the browsers.
    </aside>
    <h2>Deitel Developer Series Books</h2>
     <h3><em>Android for Programmers: An App-Driven Approach
    </em></h3>
    Click <a href = "http://www.deitel.com/books/androidfp/">
    here</a> for more information or to order this book.
     <h2>LiveLessons Videos</h2>
     <h3><em>C# 2010 Fundamentals LiveLessons</em></h3>
    Click <a href = "http://www.deitel.com/Books/LiveLessons/">
    here</a> for more information about our LiveLessons videos.
</body>
</html>
```

aside Element

• The *aside* element describes content that's related to the surrounding content (such as an article) but is somewhat separate from the flow of the text.

Results from our Facebook Survey If you were a nonprogrammer about to learn Java for the first time, would you prefer a course that taught <!DOCTYPE html> <html> Of the 54 responders, 14 (green) would prefer to learn Java in the context of Android app development. <head> <meta charset="utf-8"> <title>New HTML5 Section Elements</title> </head> <body> <section id = "3"> <h2>Results from our Hacebook Survey</h2> If you were a nonprogrammer about to learn Java for the first time, would you prefer a course that taught Java in the context of Android app development? Here are the results from our survey: 0 <meter min /= "0" max = "54"**value** = **"14"**></meter> 54 Of the 54 responders, 14 (green) would prefer to learn Java in the context of Android app development. </section> </body> /html> 70

meter Element

- The *meter* element renders a visual representation of a measure within a range.
- The *meter* element defines a scalar measurement within a known range, or a fractional value. This is also known as a gauge.
- IE not supported

```
© 1992-2012 by Deitel & Associates, Inc. All Rights Reserved.
<!DOCTYPE html>
                                                Contact us at deitel@deitel.com
<html>
   <head>
      <meta charset="utf-8">
      <title>New HTML5 Section Elements</title>
   </head>
   <body>
      <footer>
      <h6>&copy; 1992-2012 by Deitel &amp; Associ <wbr>ates, Inc.
            All Rights Reserved. < h6>
          <address>
             Contact us at <a href = "mailto:deitel@deitel.com">
            deitel@deitel.com</a>
           <u>/addr</u>ess>
   </body>
</html>
```

footer Element

• The *footer* element describes a footer-content that usually appears at the bottom of the content or section element.



世界Yahoo Yahoo奇摩企業部落格 服務條款 隱私權 網路行鎖 Yahoo奇摩徵才 服務中心

address Element

- The address Element defines the contact information for the author/owner of a document or an article.
- If the *address* element is inside the *body* element, it represents contact information for the document.
- If the *address* element is inside an *article* element, it represents contact information for that article.

wbr Element

- The wbr element indicates the appropriate place to break a word when the text wraps to multiple lines.
- You might use wbr to prevent a word from breaking in an awkward place.
- When a word is too long, or you are afraid that the browser will break your lines at the wrong place, you can use the wbr element to add word break opportunities.
- IE not supported

