

Fundamentals of HTML5

Second Edition

Forms

Craig Shoemaker
craigshoemaker.net
@craigshoemaker



pluralsight 
hardcore developer training

New Input Elements

New Input Elements

color

datalist

date

datetime

datetime-local

email

month

number

range

search

tel

time

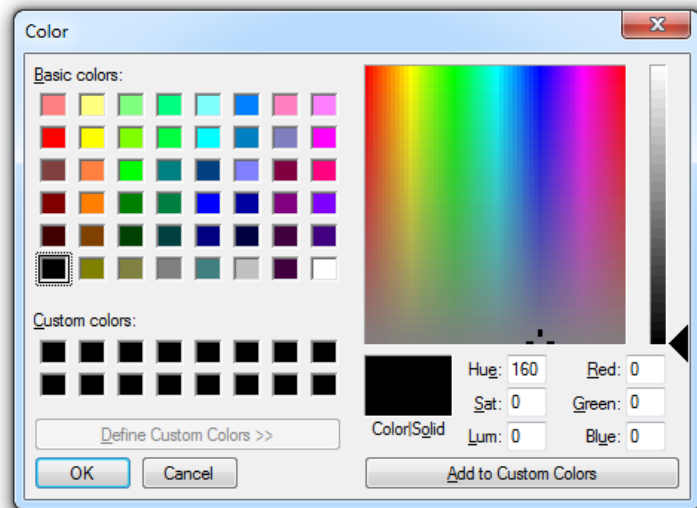
url

week

```
<input type="text" />
```

Color

```
<input type="color" />
```



Datalist

```
<label for="colors-box">Colors:</label><br/>
<input id="colors-box" list="colors" />
<datalist id="colors">
  <option value="Blue" />
  <option value="Red" />
  <option value="Yellow" />
  <option value="Orange" />
  <option value="White" />
</datalist>
```

Colors:

Blue
Red
Yellow
Orange
White

Date

```
<input type="date" />
```

mm/dd/yyyy

July, 2013

Sun	Mon	Tue	Wed	Thu	Fri	Sat
30	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3

Time

```
<input type="time" />
```

06:02 AM x

Datetime

```
<input type="datetime" />
```

2013-07-07 12:07 UTC

July 2013						
Mon	Tue	Wed	Thu	Fri	Sat	Sun
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	1	2	3	4
5	6	7	8	9	10	11

Today

Datetime-local

```
<input type="datetime-local" />
```

2013-07-07 12:07 UTC

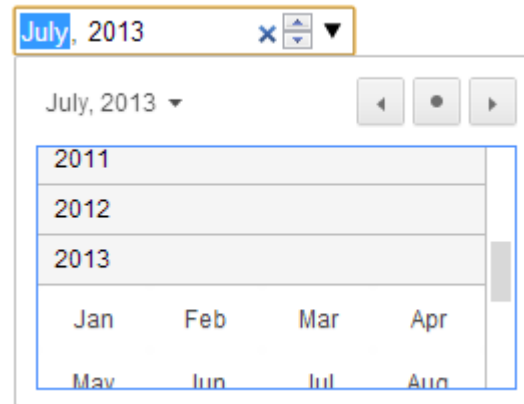
July 2013

Mon	Tue	Wed	Thu	Fri	Sat	Sun
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	1	2	3	4
5	6	7	8	9	10	11

Today

Month

```
<input type="month" />
```



The image shows a web browser interface with a date picker. The top part of the picker is a search bar containing "July, 2013" with a clear button (X) and a dropdown arrow. Below this is a navigation bar with "July, 2013" and a dropdown arrow, and three buttons: a left arrow, a center dot, and a right arrow. The main content area is a list of years: 2011, 2012, and 2013. Below the years is a grid of months: Jan, Feb, Mar, Apr, May, Jun, Jul, and Aug. The year 2013 is selected, and the month Jul is highlighted.

July, 2013 ▼			
2011			
2012			
2013			
Jan	Feb	Mar	Apr
May	Jun	Jul	Aug

Week

```
<input type="week" />
```

Week 28, 2013

July, 2013

Week	Sun	Mon	Tue	Wed	Thu	Fri	Sat
27	30	1	2	3	4	5	6
28	7	8	9	10	11	12	13
29	14	15	16	17	18	19	20
30	21	22	23	24	25	26	27
31	28	29	30	31	1	2	3

Email, URL & Telephone

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

Range

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



Number

```
<input type="number" />
```

Search

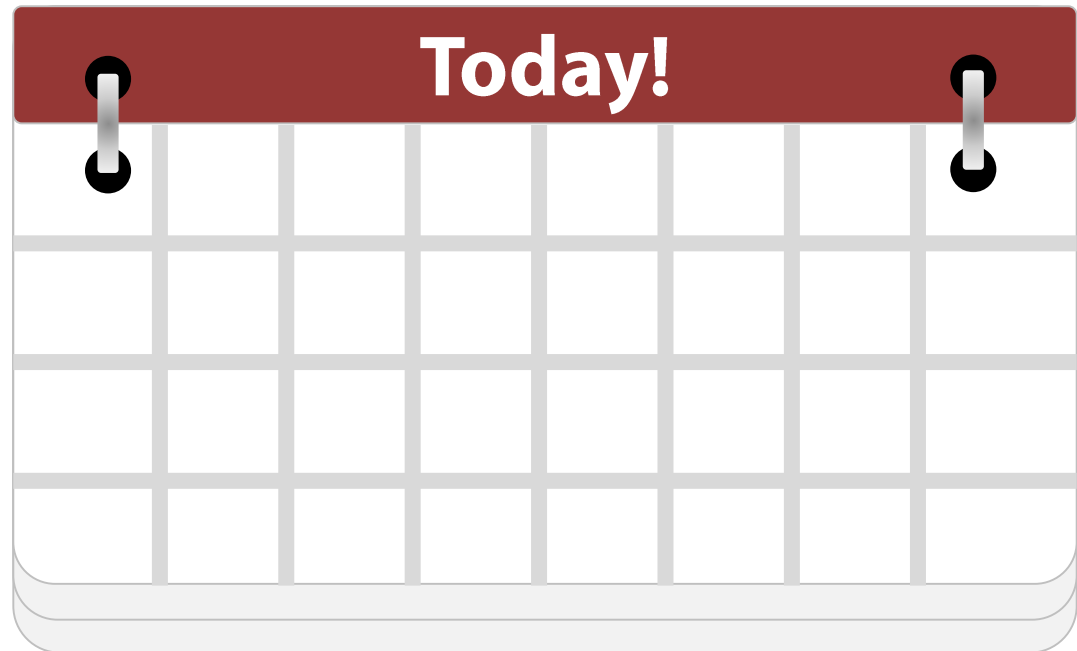
```
<input type="search" />
```

purple fuzzy ants



**When can I use these
elements?**

When can I use these elements?



Soft Keyboard: Text



Soft Keyboard: Number



Soft Keyboard: URL



Soft Keyboard: Email



Native Forms Validation

Change Email Address

The required user name may only be a series of alphabetical characters.

The required email address may not include any special characters other than the '@' sign.

Native Validation Rules

valueMissing

```
<input type="text" required value="" />
```

True if an element marked as required has an empty value.

typeMismatch

```
<input type="url" value="yellow submarine" />
```

True if the value of the element is not matched to the declared type.

patternMismatch

```
<input type="text" pattern="/^[A-z]+$/" value="1234" />
```

True when an element's value doesn't match against the regular expression in the `pattern` attribute.

tooLong

```
<input type="text" maxlength="3" value="hello" />
```

True when an element's value's length is longer than the `maxlength` attribute.

rangeUnderflow

```
<input type="range" min="3" max="5" value="0" />
```

True when an `range` element's value is smaller than the `min` attribute.

rangeOverflow

```
<input type="range" min="3" max="5" value="9" />
```

True when an `range` element's value is greater than the `max` attribute.

stepMismatch

```
<input type="range" min="5" max="20" step="5" value="8" />
```

True when an `range` element's value is impossible given the `step` value.

valid

```
<input type="range" min="5" max="20" step="5" value="10" />
```

True when all other validation
rules return false.

Summary

Arrival Date

01/01/2011

January, 2011

Sun	Mon	Tue	Wed	Thu	Fri
26	27	28	29	30	31
2	3	4	5	6	7
9	10	11	12	13	14
16	17	18	19	20	21
23	24	25	26	27	28
30	31	1	2	3	4

Birth Month

April, 1965

Vacation Week

Week 26, 2011

Next Up....

Media

Big Buck BUNNY

0:00 / 0:00

Play Stop << < > >>

Mute